

**WHITTIER BOULEVARD
BUSINESS PARK
AIR QUALITY, GLOBAL CLIMATE CHANGE,
HRA, AND ENERGY IMPACT ANALYSIS**

City of Whittier
February 11, 2022
Revised June 27, 2023



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

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EXECUTIVE SUMMARY

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

Construction-Source Emissions

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

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

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

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

Operational-Source Emissions

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

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

Greenhouse Gases

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

Furthermore, the project's GHG emissions would not exceed the SCAQMD screening threshold (based on EO S-3-05). The project would not conflict with the goals of AB-32, SB-32, or the CARB Scoping Plan; 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 Whittier Boulevard Business Park project, compliance with California Building Standards Code Title 24 energy efficiency requirements (CALGreen), are considered demonstrable evidence of efficient use of energy. As discussed below, the project would provide for, and promote, energy efficiencies required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the project's operation is calculated to be comparable to, or less than, energy consumed by other industrial uses of similar scale and intensity that are constructed and operating in California. On this basis, the project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Impacts are considered to be less than significant.

1. INTRODUCTION

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

PURPOSE AND OBJECTIVES

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

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

The City of Whittier 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 13.49-acre project site is located at 12352 Whittier Boulevard in the City of Whittier, California. The project site is currently developed with a 213,430 square foot industrial building formerly used for manufacturing. The existing industrial building is no longer in operation. A vicinity map showing the project location is provided on Figure 1.

PROJECT DESCRIPTION

The proposed project involves demolition of the existing building and construction of a new building for industrial and warehousing uses totaling 295,959 square feet of floor area ["the project"].¹ Vehicular access is proposed at the Whittier Boulevard frontage road via two project driveways. The north project driveway will be for automobiles only and the south project driveway will service both automobiles and trucks. For purposes of this analysis, the proposed Project is anticipated to be constructed and fully operational by year 2024. Figure 2 illustrates the proposed site plan.

PHASING AND TIMING

The proposed project is anticipated to be operational in 2024. The project is anticipated to be built in one phase with project construction expected to start no sooner than the beginning of December 2023 and being completed mid-December 2024. Even if construction was to occur any time after the respective dates, the

¹ The project was originally analyzed in February 2022 as a 294,800 SF warehouse; however, as the size of the project has increased, the operational year changed, and the number of trucks accessing the site also increased, the air quality modeling and report have been revised.

analysis represents “worst-case” since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.²

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 multi- and single-family residential uses located adjacent to the west, the multi-family residential uses located approximately 335 feet (~102 meters) southeast, and the single-family residential uses located approximately 700 feet (~213 meters) northeast of the project site.

² As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2020.4.0, Section 4.3.2 “OFFROAD Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.



Figure 1
Project Location Map

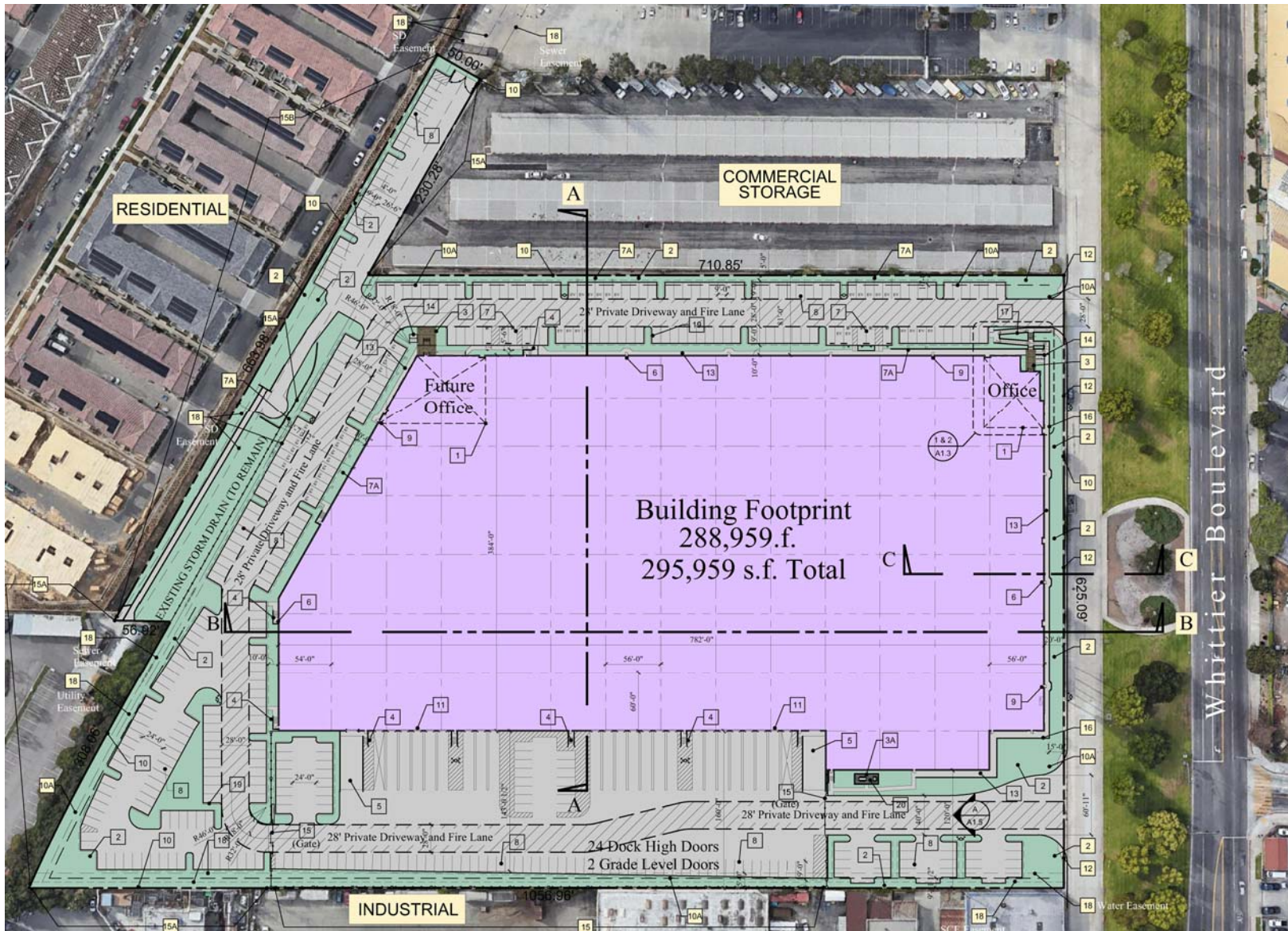


Figure 2
Site Plan

2. AIR QUALITY ANALYSIS

EXISTING AIR QUALITY CONDITIONS

Local Air Quality

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

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the region form natural horizontal barriers to the dispersion of air contaminants. Air pollution created in the coastal areas and around the Los Angeles area is transported inland until it reaches the mountains where the combination of mountains and inversion layers generally prevent further dispersion. This poor ventilation results in a gradual degradation of air quality from the coastal areas to inland areas. Air stagnation may occur during the early evening and early morning periods of transition between day and nighttime flows. The region also experiences periods of hot, dry winds from the desert, known as Santa Ana winds. If the Santa Ana winds are strong, they can surpass the sea breeze, which blows from the ocean to the land, and carry the suspended dust and pollutants out to the ocean. If the winds are weak, they are opposed by the sea breeze and cause stagnation, resulting in high pollution events.

The annual average temperature varies little throughout much of the basin, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas where the project site is located. The majority of the annual rainfall in the basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thunderstorms in the coastal regions and slightly heavier showers in the eastern portion of the basin along the coastal side of the mountains. Year-to-year patterns in rainfall are unpredictable because of fluctuations in the weather.

Temperature inversions limit the vertical depth through which pollution can be mixed. Among the most common temperature inversions in the basin are radiation inversions, which form on clear winter nights when cold air off mountains sink to the valley floor while the air aloft over the valley remains warm. These inversions, in conjunction with calm winds, trap pollutants near the source. Other types of temperature inversions that affect the basin include marine, subsidence, and high-pressure inversions.

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

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

The temperature and precipitation levels for the City of Montebello, closest monitoring station with data to the project site, 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. 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	70.3	71.1	73.6	77.5	79.9	83.5	88.6	89.9	88	82.7	73.1	70.9
Avg. Min. Temperature	47.4	48.7	50.5	53.3	57.3	60.6	64.1	64.9	63.2	58.2	50	47.3
Avg. Total Precipitation (in.)	3.48	3.33	2.6	0.88	0.26	0.05	0	0.03	0.17	0.36	1.24	2.32

Source: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca5790>

Data from the Montebello, CA station (045790).

Pollutants

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

Criteria Pollutants

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

Nitrogen Dioxides

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

Ozone

Ozone (O₃) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NO_x and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NO_x and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NO_x and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NO_x and VOC emissions.

Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high

traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

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

Sulfur Dioxide

Sulfur Oxide (SOx) gases (including sulfur dioxide [SO₂]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SOx dissolve easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

Lead

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

Particulate Matter

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

Reactive Organic Gases (ROG)

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

Other Pollutants of Concern

Toxic Air Contaminants

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of toxic air contaminants include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

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

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

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 Los Angeles 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 as Asbestos Mountain in the San Jacinto Valley; approximately 94.4 miles southeast of the 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 PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 3.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

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

State – California Air Resources Board

The California Air Resources Board (CARB), which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 2. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. Furthermore, the motor vehicle emission standards established by CARB include compliance with the Safer Affordable Fuel-Efficient Vehicles (SAFE) Rule, issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020). The SAFE Rule sets fuel economy and carbon dioxide standards that increase 1.5 percent in stringency each year from model years 2021 through 2026, and apply to both passenger cars and light trucks. CARB. It also sets fuel specifications to further reduce vehicular emissions.

The South Coast Air Basin has been designated by the CARB as a nonattainment area for ozone, PM₁₀ and PM_{2.5}. 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 NO_x, 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.

Air Quality Management Plan

In May 2022, the SCAQMD completed the 2022 Draft AQMP. The 2022 Draft AQMP is focused on attaining the 2015 8-hour ozone standard (70 ppb) for the South Coast Air Basin and Coachella Valley. The Draft 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emission technologies, when cost-effective and feasible, and low NO_x technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other CAA measures to achieve the 2015 8-hour ozone standard. The 2022 AQMP was adopted December 2, 2022, by SCAQMD Governing Board. The 2022 AQMP was approved and adopted by CARB on January 26, 2023. The 2022 AQMP strategy includes the following:³

- Wide adoption of zero emissions technologies anywhere available.
- Low NO_x technologies where zero emissions isn't feasible.
- Federal Action.
- Zero emissions technologies for residential and industrial sources such as water and space heaters in buildings and homes regionwide.
- Incentive funding in environmental justice areas.
- Prioritize benefits on the most disadvantaged communities.

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. The 2016 AQMP includes both stationary and mobile source strategies to ensure that rapidly approaching attainment deadlines are met, that public health is protected to the maximum extent feasible, and that the region is not faced with burdensome sanctions if the Plan is not approved or if the NAAQS are not met on time. As with every AQMP, a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures is updated with the latest data and methods. The most significant air quality challenge in the Basin is to reduce nitrogen oxide (NO_x) emissions sufficiently to meet the 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. The Plan was approved by the U.S. EPA on June 15, 2017.

SCAQMD Rules and Regulations

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

SCAQMD Rule 402

Prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

SCAQMD Rule 403

Governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles

³ SCAQMD 2022 AQMP Infographic. <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2022-aqmp-infographic>

per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM₁₀ component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

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

SCAQMD Rule 445

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

SCAQMD Rule 481

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

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

SCAQMD Rule 1108

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

SCAQMD Rule 1113

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

SCAQMD Rule 1143

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

SCAQMD Rule 1186

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

SCAQMD Rule 1303

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

SCAQMD Rule 1401

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

SCAQMD Rule 1403

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

SCAQMD Rule 2202

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

SCAQMD Rule 2305

The Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program aims to reduce nitrogen oxide and diesel emissions associated with warehouses, help meet federal standards and improve public health. The WAIRE Program is an indirect source rule that regulates warehouse facilities to reduce emissions from the goods movement industry. Owners and operators of warehouses that have 100,000 square feet or more of indoor floor space in a single building must comply with the WAIRE Program. WAIRE is a menu-based point system in which warehouse operators are required to earn a specific number of points every year. The yearly number of points required is based on the number of trucks trips made to and from the warehouse each year, with larger trucks such as tractors or tractor-trailers multiplied by 2.5. Warehouse operators may be exempt from parts of the rule if they operate less than 50,000 square feet of warehousing activities, if the number of points required is less than 10, or if the WAIRE menu action chosen under performs due to circumstances beyond the operator's control, such as a manufacturer defect. SCAQMD Rule 316 establishes fees to fund Rule 2305 compliance activities.

Air Quality Guidance Documents

SCAQMD CEQA Handbook

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance with the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook) prepared by the SCAQMD (1993) with the most current updates found at <http://www.aqmd.gov/ceqa/hdbk.html>, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. SCAQMD is in the process of developing an "Air Quality Analysis Guidance Handbook" to replace the CEQA Air Quality Handbook approved by the AQMD Governing Board in 1993. The 1993 CEQA Air Quality Handbook is still available but not online. In addition, there are sections of the 1993 Handbook that are obsolete. In order to assist the CEQA practitioner in conducting an air quality analysis while the new Handbook is being prepared, supplemental information regarding: significance thresholds and analysis, emissions factors, cumulative impacts emissions analysis, and other useful subjects, are available at the SCAQMD website⁴. 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.

⁴ <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>.

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.

Local – City of Whittier

Local jurisdictions, such as the City of Whittier, 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 2022 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 Resource Management Element of the Envision Whittier General Plan includes the following applicable air-quality related goals and policies:

Goal 4 Increased vegetation and open space on both public and private property to improve air quality, reduce stormwater runoff, and mitigate urban heat island effects.

Goal 5 Urban environments that guard against adverse air quality impacts on sensitive receptors.

RM-5.1: Comply with SCAQMD regulations and minimize adverse health impacts between facilities known to emit harmful contaminants, such as industrial uses and high traffic areas, and sensitive receptors such as schools, childcare facilities, and senior centers.

RM-5.2: Pursue projects that improve public health and leverage funding available to disadvantaged communities.

In addition, the Public Safety, Noise and Health Element of the Envision Whittier General Plan includes the following goals and policies related to air quality:

Goal 9 Residential neighborhoods no burdened by pollution exposure and where all residents have equal access to community services and amenities, healthy foods, well-maintained homes, and recreational facilities and programming that support health lifestyles.

PSNH-9.1: Review the operating characteristics of proposed new industrial businesses near disadvantaged communities to minimize impacts on the population, especially children and the senior community. Encourage any existing sources of emissions to use feasible measures to minimize emissions that could impact air quality.

PSNH-9.3: Encourage building design, construction safeguards, and technological improvements that mitigate the negative impacts of hazardous materials and/or air pollution on indoor air quality and residential and sensitive uses sited near businesses that handle toxic materials.

PSNH-9.4: Designate acceptable and unacceptable areas for freight trucking and truck idling to limit impacts to all residents and disadvantaged communities in particular.

PSNH-9.5: Use landscaping and other buffers to separate sensitive uses from trucking uses, warehousing, manufacturing facilities, and other emissions sources.

PSNH-9.6: Encourage non-polluting industry and clean green technology companies to locate in the City.

**Table 2
State and Federal Criteria Pollutant Standards**

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O ₃)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.070 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO ₂)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO ₂)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM ₁₀)	50 µg/m ³ /24-hour 20 µg/m ³ /annual	150 µg/m ³ /24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter (PM _{2.5})	12 µg/m ³ / annual	35 µg/m ³ /24-hour 12 µg/m ³ /annual	
Sulfates	25 µg/m ³ /24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m ³ /30-day	0.15 µg/m ³ /3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

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

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

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

Source (Federal and State Status): California Air Resources Board (2022) <https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations> & SCAQMD 2022 Air Quality Management Plan (December 2022) <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/final-2022-aqmp/final-2022-aqmp.pdf?sfvrsn=16>.

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 2022 Air Quality Management Plan prepared by SCAQMD (December 2022) indicate that collectively, mobile sources account for 46 percent of the VOC, 85 percent of the NO_x emissions, 89 percent of the CO emissions and 29 percent of directly emitted PM_{2.5}, with another 18 percent of PM_{2.5} from road dust.

The SCAQMD has divided the South Coast Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in the Southeast LA County Air Monitoring Area (Area 5), which is located in Los Angeles County and covers from the Whittier Boulevard on the north, the County of Orange and County of Los Angeles County line on the east, the 91 Freeway on the south, and the 710 Freeway on the west. The nearest air monitoring station to the project site is the Pico Rivera - 4144 San Gabriel Monitoring Station (Pico Rivera Station). The Pico Rivera Station is located approximately 2.79 miles northwest of the project site at 4144 San Gabriel River Parkway, Pico Rivera. As not all monitoring stations monitor all pollutants, data was also taken from the Los Angeles - North Main Street Monitoring Station (Los Angeles Station) located approximately 12.1 miles northwest of the project site at 1630 N Main Street, Los Angeles 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 Pico Rivera and Los Angeles Stations.

Table 4 summarizes 2019 through 2021 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 and particulate matter (PM₁₀ and PM_{2.5}) standards.

Ozone

During the 2019 to 2021 monitoring period, the State 1-hour concentration standard for ozone was exceeded between two and 20 days each year at the Pico Rivera Station. The State 8-hour ozone standard has been exceeded between three and 25 days each year over the past three years at the Pico Rivera Station. The Federal 8-hour ozone standard was exceeded between three and 23 days each year over the past three years at the Pico Rivera Station.

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

Carbon Monoxide

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

Nitrogen Dioxide

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

Particulate Matter

The State 24-hour concentration standards for PM10 were exceeded between 14 and 34 days each year over the last three years at the Los Angeles Station. Over the past three years, the Los Angeles Station did not record an exceedance of the Federal 24-hour standards for PM10.

Over the last three years the Federal 24-hour standard for PM2.5 was exceeded between one and five days each year at the Pico Rivera 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) ¹		Year		
		2019	2020	2021
Ozone:	Maximum 1-Hour Concentration (ppm)	0.108	0.169	0.104
	Days > CAAQS (0.09 ppm)	5	20	2
	Maximum 8-Hour Concentration (ppm)	0.092	0.114	0.074
	Days > NAAQS (0.070 ppm)	7	23	3
	Days > CAAQS (0.070 ppm)	8	25	3
Carbon Monoxide: ²	Maximum 8-Hour Concentration (ppm)	*	*	*
	Days > CAAQS (9 ppm)	0	0	0
	Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:	Maximum 1-Hour Concentration (ppm)	0.062	0.069	0.072
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10): ²	Maximum 24-Hour Concentration (µg/m ³)	93.9	185.2	138.5
	Days > NAAQS (150 µg/m3)	0	0	0
	Days > CAAQS (50 µg/m3)	15	34	14
	Annual Average (µg/m3)	23.0	33.9	30.9
Ultra-Fine Particulates (PM2.5):	Maximum 24-Hour Concentration (µg/m3)	56.3	82.9	66.1
	Days > NAAQS (35 µg/m3)	1	5	3
	Annual Average (µg/m3)	9.9	14	13.3

Notes:

Source: <http://www.arb.ca.gov/adam/topfour/topfour1.php>. Data from the Pico Rivera - 4144 San Gabriel 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 Los Angeles - North Main 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.⁵ 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.

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

⁵ 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.

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.⁶

Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table 5.

Local Air Quality

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significance Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significance Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significance Threshold Methodology found that the primary emissions of concern are NO₂, CO, PM10, and PM2.5.

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

Toxic Air Contaminants

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

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

In order to determine if the proposed project may have a significant impact related to hazardous air pollutants (HAP), the Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, (Diesel Analysis), prepared by SCAQMD, August 2003, recommends that if the proposed project is anticipated to create hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the 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).

⁶ 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.

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 ¹		
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 (TACs), Odor and GHG Thresholds		
TACs (including carcinogens and non-carcinogens)	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 South Coast AQMD Rule 402	
GHG	10,000 MT/yr CO ₂ e for industrial facilities	
Ambient Air Quality Standards for Criteria Pollutants ²		
NO ₂	South Coast AQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards:	
1-hour average	0.18 ppm (state)	
annual arithmetic mean	0.03 ppm (state) & 0.0534 ppm (federal)	
PM10	10.4 $\mu\text{g}/\text{m}^3$ (construction) ³ & 2.5 $\mu\text{g}/\text{m}^3$ (operation)	
annual average	1.0 $\mu\text{g}/\text{m}^3$	
PM2.5	10.4 $\mu\text{g}/\text{m}^3$ (construction) ³ & 2.5 $\mu\text{g}/\text{m}^3$ (operation)	
SO ₂	0.25 ppm (state) & 0.075 ppm (federal - 99th percentile)	
1-hour average	0.25 ppm (state) & 0.075 ppm (federal - 99th percentile)	
24-hour average	0.04 ppm (state)	
Sulfate	25 $\mu\text{g}/\text{m}^3$ (state)	
24-hour average	25 $\mu\text{g}/\text{m}^3$ (state)	
CO	South Coast AQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards:	
1-hour average	20 ppm (state) & 35 ppm (federal)	
8-hour average	9 ppm (state/federal)	
Lead	1.5 $\mu\text{g}/\text{m}^3$ (state)	
30-day average	1.5 $\mu\text{g}/\text{m}^3$ (state)	
Rolling 3-month average	0.15 $\mu\text{g}/\text{m}^3$ (federal)	

Notes:

Source: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>

(1) Source: South Coast AQMD CEQA Handbook (South Coast AQMD, 1993)

(2) Ambient air quality thresholds for criteria pollutants based on South Coast AQMD Rule 1303, Table A-2 unless otherwise stated.

(3) Ambient air quality threshold based on South Coast AQMD Rule 403.

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: demolition of a 213,430 square foot existing industrial building and approximately 305,150 square feet of existing paving; site preparation to remove existing landscaping/parking areas; grading of approximately 13.49 acres; construction of a 295,959 square foot industrial building with a 288,959 square foot footprint and 78,889 square feet of landscaping; paving of a parking lot with 417 parking spaces; and application of architectural coatings. Grading of the site will balance. See Appendix B for more details.

The proposed project is anticipated to start construction no sooner than the beginning of December 2023 and being completed by mid-December 2024. The project is anticipated to be operational in 2024.

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 2022.1.1.13) 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.⁷

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 EMFAC2021 computer program to calculate the emission rates specific for the southwestern portion of Riverside County for construction-related employee vehicle trips and the OFFROAD2017 computer program to calculate emission rates for heavy truck operations. EMFAC2021 and OFFROAD2017 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

⁷ 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 13.49 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.

The phases of the construction activities which have been analyzed below for each phase are: (1) demolition, (2) site preparation, (3) grading, (4) building construction, (5) paving, and (6) 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 maximum summer or winter criteria pollutant emissions from the proposed project's construction-related criteria pollutant emissions 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 Southeast LA County source receptor area (SRA) 5 and a disturbance value of four acres per day.⁸ 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 multi- and single-family residential uses located adjacent to the west, the multi-family residential uses located approximately 335 feet (~102 meters) southeast, and the single-family residential uses located approximately 700 feet (~213 meters) northeast of the project site; therefore, the SCAQMD Look-up Tables for 25 meters were 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 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)⁹ and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),¹⁰ 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 12.5 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.

⁸ The 4-acre threshold was interpolated from the 2-acre and 5-acre SCAQMD Mass Rate Look-up Table thresholds at 25 meters.

⁹ 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/crnrr/2015guidancemanual.pdf>.

¹⁰ 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>.

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 exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

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

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO ₂	PM10	PM2.5
Maximum Daily Emissions ^{1,2}	33.10	38.40	37.60	0.09	9.88	4.15
SCAQMD Thresholds	75	100	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2022.1.1.13

- (1) On-site demolition, site preparation, and grading PM-10 and PM-2.5 emissions show compliance with SCAQMD Rule 403 for fugitive dust.
- (2) Construction, painting and paving phases may overlap.

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

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Demolition	Rubber Tired Dozers	2	0.5	1
Total for phase		-	-	1
Site Preparation	Rubber Tired Dozers	3	0.5	1.5
	Crawler Tractors ¹	4	0.5	2
Total for phase		-	-	3.5
Grading	Rubber Tired Dozers	1	0.5	0.5
	Graders	1	0.5	0.5
	Scrapers	2	1	2
	Crawler Tractors ¹	2	0.5	1
Total for phase		-	-	4

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
Demolition	27.30	23.50	7.41	2.04
Site Preparation	36.00	32.90	6.71	4.10
Grading	34.30	30.20	3.84	2.28
Building Construction	11.20	13.10	0.50	0.46
Paving	7.81	10.00	0.39	0.36
Architectural Coating	0.91	1.15	0.03	0.03
SCAQMD Thresholds ^{1,2}	153	1,274	12	6
Exceeds Threshold?	No	No	No	No

Notes:

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 4-acres at a distance of 25 m in SRA 5 Southeast LA County.

- (1) The nearest sensitive receptors are the existing multi- and single-family residential uses located adjacent to the west, the multi-family residential uses located approximately 335 feet (~102 meters) southeast, and the single-family residential uses located approximately 700 feet (~213 meters) northeast of the project site; therefore, the 25 meter threshold was used.
- (2) The 4-acre threshold was interpolated from the 2-acre and 5-acre SCAQMD Mass Rate Look-up Table thresholds at 25 meters.
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 2024, which is the anticipated opening year 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 *12352 Whittier Boulevard Industrial Project Trip Generation Memorandum* (Trip Generation Memo) prepared by Ganddini Group, Inc. (June 13, 2023) into the CalEEMod Model. The Trip Generation Memo found that the proposed project would create approximately 998 vehicle trips per day (non-PCE) and 1,305 vehicle trips per day (PCE) with a trip generation rate of 3.37 trips per thousand square foot per day. The program then applies the emission factors for each trip which is provided by the EMFAC2021 model to determine the vehicular traffic pollutant emissions.

The Trip Generation Memo found that the proposed industrial use would create 829 automobile round trips, 13 2-axle truck round trips, 12 3-axle truck round trips, and 144 4+-axle truck round trips per day (non-PCE). The vehicle mix for the industrial project was changed in CalEEMod to match the Trip Generation Memo (see Table 9) and the percentages in CalEEMod were changed to 83.1% autos (H-W) and 16.9% trucks (W-O) to match the overall vehicle percentages given in the TIA. Due to the proposed project's location and proposed industrial 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 maximum daily 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 Trip Generation Memo showed that the proposed project would generate a maximum of approximately 998 daily vehicle trips. The original *Whittier Boulevard Business Park Traffic Impact Analysis* ("TIA") prepared by Ganddini Group, Inc. (January 24, 2022) showed that the intersection with the highest traffic volume is located at Whittier Boulevard and Whittier Boulevard Frontage Road and has an Existing Plus Ambient Growth Plus Project Plus Cumulative - Alternative with Mar Vista Street Extension AM peak hour volume of 1,428 vehicles. Furthermore, as shown in the more recent Trip Generation Memo, the project now has fewer peak hour trips per day than what was analyzed in the TIA. 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 multi- and single-family residential uses adjacent to the west, the multi-family residential uses located approximately 335 feet (~102 meters) southeast, and the single-family residential uses located approximately 700 feet (~213 meters) northeast 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 Southeast LA County source receptor area (SRA) 5 and as the site is only 13.49 acres, used the screening 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.¹¹ 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 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.

¹¹ The project site is approximately 0.23 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/32nd of the shortest CalEEMod default distance of 7.31 miles. Therefore, to be conservative, 1/10th the distance (dividing the mobile source emissions by 10) was used to represent the portion of the overall mobile source emissions that would occur on-site.

**Table 9
CalEEMod Revised Vehicle Mix Parameters**

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix ¹		CalEEMod Revised Mix ²	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.512	511	0.451	450
Light Truck < 3750 lbs	Automobile	0.045	45	0.039	39
Light Truck 3751-5750 lbs	Automobile	0.228	227	0.201	200
Med Truck 5751-8500 lbs	Automobile	0.139	138	0.122	122
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.026	26	0.010	10
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.006	6	0.003	3
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.011	11	0.012	12
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.008	8	0.144	144
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	1	0.000	0
Motorcycle	Automobile	0.021	21	0.018	18
School Bus	--	0.001	1	0.000	0
Motor Home	--	0.003	3	0.000	0
Total		1.0	998	1.0	998

Notes:

- (1) Source: CalEEMod Version 2022.1.1.13 default values for Opening year of 2024.
- (2) Revised per the vehicle mix provided in the 12352 Whittier Boulevard Industrial Project Trip Generation Memorandum (Ganddin Group, Inc., June 13, 2023) of 83.1% Autos, 1.3% 2-Axle Trucks, 1.2% 3-Axle Trucks and 14.4% 4+ Axle Trucks.

**Table 10
Regional Operational Pollutant Emissions**

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Maximum Daily Emissions	13.10	18.40	70.70	0.22	6.08	1.46
SCAQMD Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2022.1.1.13; the higher of either summer or winter emissions.

Table 11
Local Operational Emissions at the Nearest Receptors

On-Site Emission Source	On-Site Pollutant Emissions (pounds/day) ¹			
	NOx	CO	PM10	PM2.5
Area Sources ²	0.11	12.90	0.02	0.02
Energy Usage ³	2.01	1.69	0.15	0.15
Vehicle Emissions ⁴	15.50	56.20	5.91	1.28
Total Emissions	17.62	70.79	6.08	1.45
SCAQMD Thresholds ⁵	172	1,480	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 5 Southeast LA County.
- (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 multi- and single-family residential uses located adjacent to the west, the multi-family residential uses located approximately 335 feet (~102 meters) southeast, and the single-family residential uses located approximately 700 feet (~213 meters) northeast 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;¹² 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. This applies to TACs as well, as the SCAQMD does not have any cumulative TAC thresholds; therefore, projects that do not exceed the SCAQMD TAC threshold 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 NO_x, 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. The project will not be a source of significant TACs and will not cause significant cancer or non-cancer-related health risks. 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

¹² 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>.

comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD CEQA Handbook states that "New or amended 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 2022 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

Criteria 1 – Increase in the Frequency or Severity of Violations

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

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

Criteria 2 – Exceed Assumptions in the AQMP?

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

The project site is currently designated as General Industrial and zoned Whittier Boulevard Specific Plan in the City of Whittier General Plan. The project proposes to develop the site with 295,959 square feet of industrial use. Therefore, the proposed project is consistent with the City's land use designation. The proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

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

3. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The 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.

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.

According to the SCAQMD's MATES-V study, has an estimated multi-pathway cancer risk of 467 in one million and an inhalation cancer risk of 435 in one million. In comparison the average multi-pathway cancer risk for the South Coast Air Basin portion of Los Angeles County is 497 in one million and the inhalation cancer risk is 462 in a million. This increased cancer risk is largely due to the proximity to the Interstate 605 Freeway.

EMISSIONS INVENTORY DEVELOPMENT

Important issues that affect the dispersion modeling include the following: (1) Model Selection, (2) Source Treatment, (3) Meteorological Data, and (4) Receptor Grid. Each of these issues is addressed below.

Emission Source Estimates – DPM for Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2021 emissions factor model (see Appendix C for details). Truck mix information was obtained from the *12352 Whittier Boulevard Industrial Project Trip Generation Memorandum* ("Trip Generation Memo") prepared by Ganddini Group, Inc. (June 13, 2023).

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 Trip Generation Memo showed the project is expected to generate approximately 998 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, 829 are automobile round trips, 13 are 2-axle truck round trips, 12 are 3-axle truck round trips, and 144 are 4+-axle truck round trips per day (non-passenger car equivalents).

Estimate of Emission Factors

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2021 mobile source emission model. The emissions factors were derived for Los Angeles County. Third trimester exposure used opening year (2024) emissions factors, 2-year factors (for infant exposure) reflect years 2025 and 2026, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2027 to 2040), the second 14 years of exposure (years 2041-2054) 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 truck entrance and at the loading docks), 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 2024 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. An average truck height of 13.5 feet and average truck width of 8.5 feet were entered into the haul road calculator in AERMOD in order to calculate the plume height and release height for the line sources. 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 that may be affected by on-site and off-site DPM emissions (including the existing multi- and single-family residential uses adjacent to the west, the multi-family residential uses located approximately 335 feet southeast, and residential uses under construction located approximately 1,660 feet northwest of the site, west of Whittier Boulevard). A receptor was also placed at the Whittier Greenway bike/pedestrian trail located east of Whittier Boulevard. Residential receptors are shown as orange triangles labeled 1 through 7 and 9, the receptor for the Whittier Greenway Trail is labeled bike trail_8. The direction of on-site and off-site truck travel were obtained from the site plan and the TIA.

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. AERMOD View Version 11.2.0, EPA version No. 22112, was utilized for this analysis.

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 estimated from the project plans, assuming a building height of 35 feet.

Meteorological Data

Meteorological data (processed with the ADJ_U option) from the Air District's Pico Rivera monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2010 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 C. Figure 5 illustrates the cancer risk to the most affected age-group, infants (0-2 years). Table 15 shows 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 infant cancer risk 0-2 years (see Table 16), and is at receptor bike trail_8, with a maximum risk of 0.38 in one million, followed by receptor 1 at 0.37 in a million. The maximum 3rd trimester (0.25-year) cancer risk is at receptors 1, 2, and bike trail_8; with a maximum cancer risk of 0.02 in a million. The highest child (2-16 years) cancer risk is at receptor 1; with a maximum risk of 0.36 in one million and the highest adult (16-30 years) cancer risk is at receptors 1, 2, 3 and bike trail_8; with a maximum risk of 0.04 in one million. Therefore, no children, infants, or adults are exposed to cancer risks in excess of 10 in a million.

The assessment of cumulative 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 0.78 in a million at receptor location bike trail_8, followed by 0.77 in a million at receptor location 1, as shown in Table 19. Therefore, 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. As the residential cancer risk does not exceed 10 in a million.

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:

$$\text{HIDPM} = 0.00119/5 = 0.0002$$

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

Table 12
DPM Emissions Factors for the Proposed Project

Vehicle Class	1-Year Average (Opening Year-2024)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77769	0.05435	0.02193
Medium Heavy Duty Truck	0.07273	0.03833	0.00897
Heavy Heavy Duty Truck	0.01537	0.01217	0.00826

Vehicle Class	2-Year Average (2025-2026)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77753	0.04865	0.02001
Medium Heavy Duty Truck	0.05503	0.02941	0.00714
Heavy Heavy Duty Truck	0.01428	0.01163	0.00785

Vehicle Class	14-Year Average (First 14 years of Operation - 2027-2040)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.76775	0.03871	0.01716
Medium Heavy Duty Truck	0.01857	0.00993	0.00305
Heavy Heavy Duty Truck	0.01107	0.00948	0.00644

Vehicle Class	14-Year Average (Second 14 years of Operation - 2041-2054)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.76173	0.03537	0.01654
Medium Heavy Duty Truck	0.00731	0.00320	0.00151
Heavy Heavy Duty Truck	0.00973	0.00818	0.00564

Notes:

Source: EMFAC2021.

**Table 13
Summary of Emission Configurations**

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Truck Traffic	Line Sources	Stack release height: 3.5 m
		Vehicle speed: 35 mph
		Length of the line source (along Whittier Boulevard Frontage Road to Whittier Boulevard northbound and southbound, from Whittier Boulevard to Washington Boulevard westbound)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Traffic	Line Sources	Stack release height: 3.5 m
		Vehicle speed: 10 mph
		Length of the line source (from southern driveway truck entrance to loading doack area)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Idling	Point Source located at Project Building and entrance gate	Stack release height: 3.5 m
		Stack release characteristics
		> Stack diameter: 0.1 meter (0.3 feet)
		> Stack velocity: 51.9 mps (170 feet/sec)
		> Stack temperature: 366 °k (200° F)
		Idle time: 15 minutes per truck per day
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021

Table 14
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 min
Emission source configuration	See Table 13
Regulatory dispersion options	Default
Land use	Urban, Los Angeles County
Coordinate system	UTM, Zone 11 north
Building downwash	Included in calculations
Receptor height	0 meters above ground (per SCAQMD/OEHHA methodology)
Meteorological data	SCAQMD Pico Rivera 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	0.00114	1.1E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0002
2	0.00112	1.1E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0002
3	0.00107	1.1E-06	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
4	0.00082	8.2E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
5	0.00099	9.9E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
6	0.00085	8.5E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
7	0.00062	6.2E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
bike trail_8	0.00119	1.2E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0002
9	0.00052	5.2E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001

Notes:

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

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

E= 10^X, i.e. E-02 = 10⁻²

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

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.0011	1.1E-06	1.00E+00	DPM	1.1E+00	0.36	5.0E+00	1.4E-03	0.0002
2	0.00108	1.1E-06	1.00E+00	DPM	1.1E+00	0.35	5.0E+00	1.4E-03	0.0002
3	0.00103	1.0E-06	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
4	0.00079	7.9E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0002
5	0.00094	9.4E-07	1.00E+00	DPM	1.1E+00	0.31	5.0E+00	1.4E-03	0.0002
6	0.0008	8.0E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0002
7	0.00059	5.9E-07	1.00E+00	DPM	1.1E+00	0.19	5.0E+00	1.4E-03	0.0001
bike trail_8	0.00113	1.1E-06	1.00E+00	DPM	1.1E+00	0.37	5.0E+00	1.4E-03	0.0002
9	0.0005	1.9E-04	1.00E+00	DPM	1.1E+00	0.16	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

E= 10^X, i.e. E-02 = 10⁻²

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

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00099	9.9E-07	1.00E+00	DPM	1.1E+00	0.36	5.0E+00	1.4E-03	0.0002
2	0.00098	9.8E-07	1.00E+00	DPM	1.1E+00	0.35	5.0E+00	1.4E-03	0.0002
3	0.00093	9.3E-07	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
4	0.00072	7.2E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0001
5	0.00082	8.2E-07	1.00E+00	DPM	1.1E+00	0.30	5.0E+00	1.4E-03	0.0002
6	0.00068	6.8E-07	1.00E+00	DPM	1.1E+00	0.25	5.0E+00	1.4E-03	0.0001
7	0.00049	4.9E-07	1.00E+00	DPM	1.1E+00	0.18	5.0E+00	1.4E-03	0.0001
bike trail_8	0.00098	9.8E-07	1.00E+00	DPM	1.1E+00	0.35	5.0E+00	1.4E-03	0.0002
9	0.00043	4.3E-07	1.00E+00	DPM	1.1E+00	0.16	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

E= 10^X, i.e. E-02 = 10⁻²

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

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
1	0.00094	9.4E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
2	0.00092	9.2E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
3	0.00088	8.8E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
4	0.00067	6.7E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
5	0.00075	7.5E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0002
6	0.00056	5.6E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
7	0.00038	3.8E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
bike trail_8	0.0009	9.0E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
9	0.00039	3.9E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

E= 10^X, i.e. E-02 = 10⁻²

Table 19
Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	0.77
2	0.76
3	0.72
4	0.56
5	0.65
6	0.54
7	0.39
bike trail_8	0.78
9	0.34

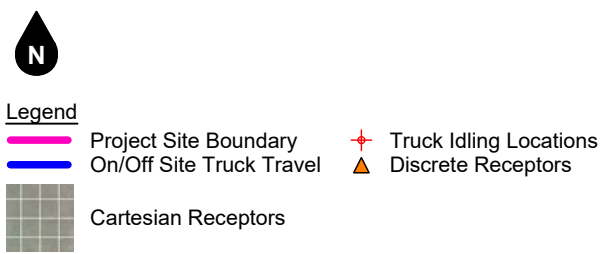


Figure 3
AERMOD Model Source and Receptor Placement

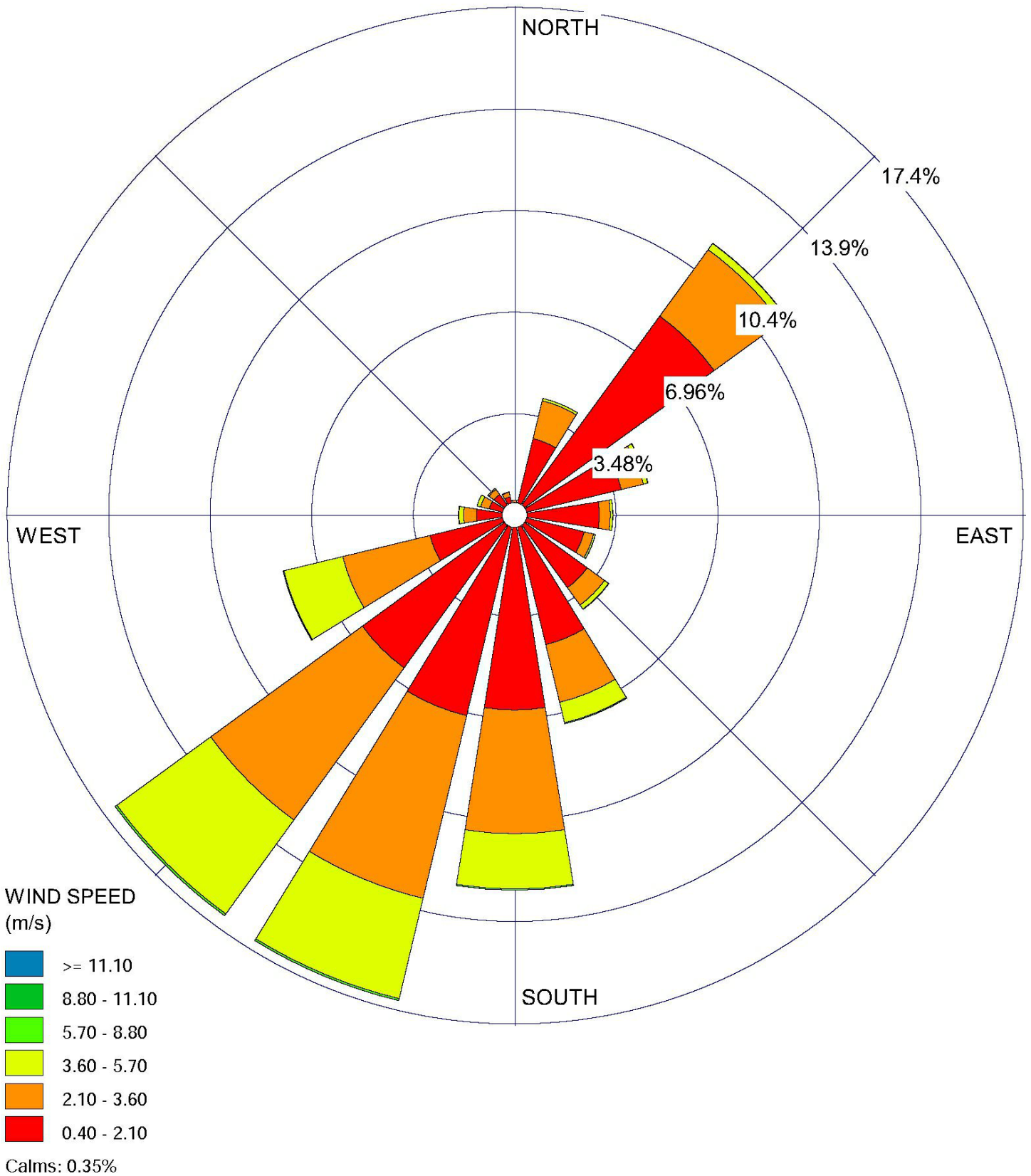
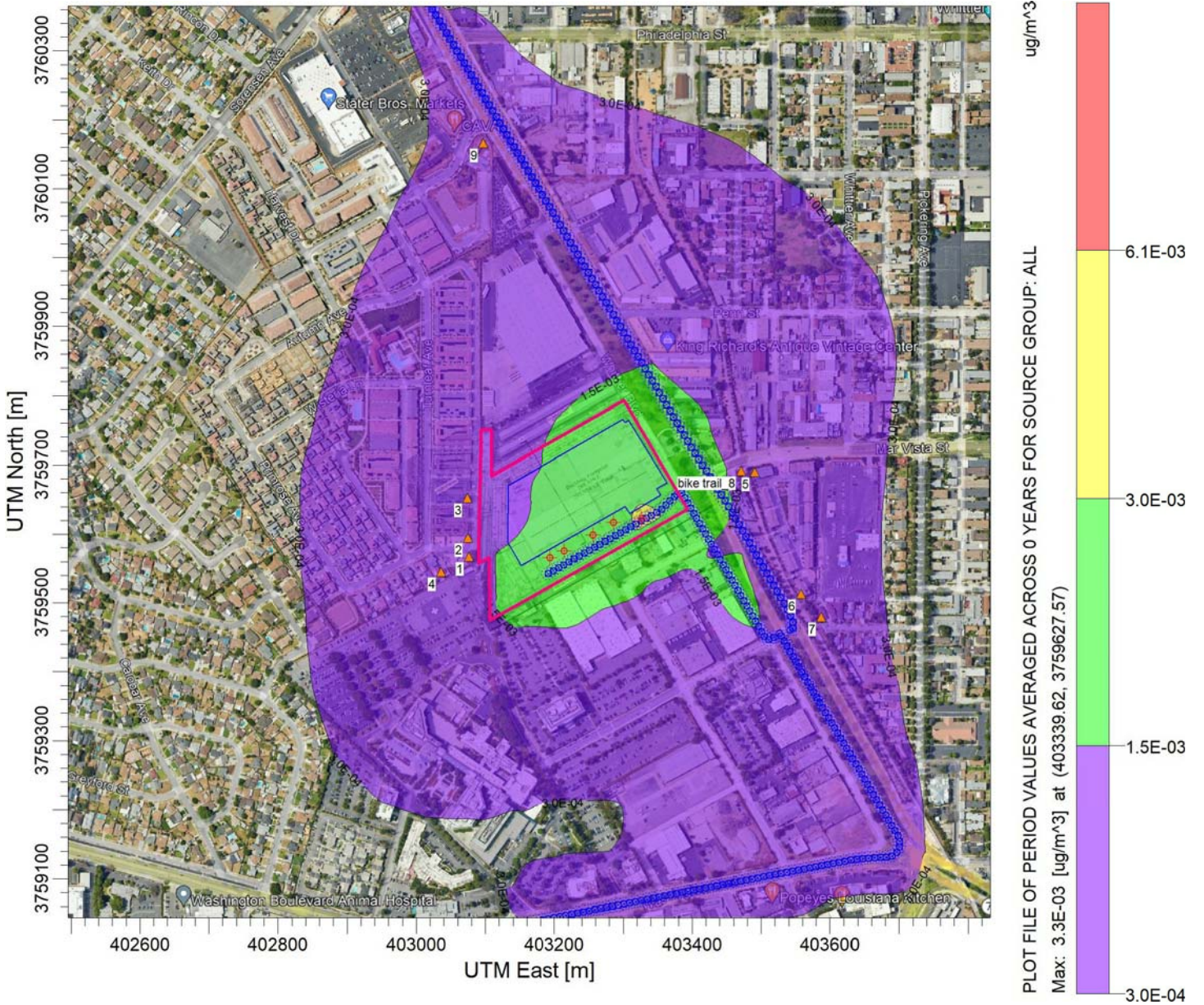


Figure 4
Wind Rose, Pico Rivera



Legend

Cancer Risk for Infants 0-2 Years

- 2 in a million
- 1 in a million
- 0.5 in a million
- 0.1 in a million

Figure 5
Modeled Study Area Highest Cancer Risk from Annual DPM Emissions



4. GLOBAL CLIMATE CHANGE ANALYSIS

EXISTING GREENHOUSE GAS ENVIRONMENT

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO₂), methane (CH₄), ozone, water vapor, nitrous oxide (N₂O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO₂ and nitrous oxide (NO_x) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO₂, where CO₂ is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

Water Vapor

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

Carbon Dioxide (CO₂)

The natural production and absorption of CO₂ is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid-1700s. Each of these activities has increased in scale and distribution. CO₂ was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC Fifth Assessment Report, 2014) Emissions of CO₂ from fossil fuel combustion and industrial processes contributed about 78% of the total GHG emissions increase from 1970 to 2010, with a similar percentage contribution for the increase during the period 2000 to 2010. Globally, economic and population growth continued to be the most important drivers of increases in CO₂ emissions from fossil fuel combustion. The contribution of population growth between 2000 and 2010 remained roughly identical to the previous three decades, while the contribution of economic growth has risen sharply.

Methane (CH₄)

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

Nitrous Oxide (N₂O)

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

Chlorofluorocarbons (CFC)

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C₂H₆) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

Hydrofluorocarbons (HFC)

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

Perfluorocarbons (PFC)

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF₄) and hexafluoroethane (C₂F₆). Concentrations of CF₄ in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

Sulfur Hexafluoride (SF₆)

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

Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

Global Warming Potential

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

Table 20
Global Warming Potentials and Atmospheric Lifetimes

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

Notes:

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

(1) Compared to the same quantity of CO₂ emissions.

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

GREENHOUSE GAS STANDARDS AND REGULATION

International

Montreal Protocol

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

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

The Paris Agreement

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

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

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

Federal

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

In *Massachusetts v. Environmental Protection Agency* (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As

such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO₂ and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

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

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

Clean Air Act

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

Energy Independence Security Act

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

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

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green jobs.¹³

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)¹⁴ and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO₂ per mile by model year 2016, based on USEPA calculation methods. These standards were formally adopted on April 1, 2010. In August 2012, standards were adopted for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2025, vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO₂ per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.¹⁵ In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

On May 12, 2021, the National Highway Traffic Safety Administration (NHTSA) published a notice of proposed rulemaking in the Federal Register, proposing to repeal "The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program," published Sept. 27, 2019 (SAFE I Rule), in which NHTSA codified regulatory text and made additional pronouncements regarding the preemption of state and local laws related to fuel economy standards. Specifically, this document proposes to fully repeal the regulatory text and appendices promulgated in the SAFE I Rule. In addition, this document proposes to repeal and withdraw the interpretative statements made by the Agency in the SAFE I Rule preamble, including those regarding the preemption of particular state Greenhouse Gas (GHG) Emissions standards or Zero Emissions Vehicle (ZEV) mandates. As such, this document proposes to establish a clean slate with respect to NHTSA's regulations and interpretations concerning preemption under the Energy Policy and Conservation Act (EPCA).¹⁶

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

¹³ 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.

¹⁴ 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.

¹⁵ 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>.

¹⁶ <https://www.federalregister.gov/documents/2021/05/12/2021-08758/corporate-average-fuel-economy-cafe-preemption>

[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 CO₂ and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the “waiver” request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State’s request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009. After adopting these initial greenhouse gas standards for passenger vehicles, CARB adopted continuing standards for future model years.

Executive Order S-3-05

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

- By 2010, California shall reduce GHG emissions to 2000 levels;
- By 2020, California shall reduce GHG emissions to 1990 levels; and
- By 2050, California shall reduce GHG emissions to 80 percent below 1990 levels.

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

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

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

Senate Bill 32 and Assembly Bill 197

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

Climate Change Scoping Plan (2008)

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

As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was originally set at 427 MMTCO_{2e} 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_{2e} (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_{2e}.

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_{2e}. 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_{2e}.

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.”¹⁷ 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.

2022 Climate Change Scoping Plan

CARB adopted the 2022 Scoping Plan for Achieving Carbon Neutrality on November 16, 2022. The 2022 Scoping Plan lays out the sector-by-sector roadmap for California, the world’s fifth largest economy, to achieve carbon neutrality by 2045 or earlier, outlining a technologically feasible, cost-effective, and equity-focused path to achieve the state’s climate target. The Plan addresses recent legislation and direction from Governor Newsom and extends and expands upon earlier plans with a target of reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The plan also takes the unprecedented step of adding carbon neutrality as a science-based guide and touchstone for California’s climate work. Specifically, this plan:

¹⁷ California Air Resources Board, California’s 2017 Climate Change Scoping Plan, November 2017, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

- Identifies a path to keep California on track to meet its SB 32 GHG reduction target of at least 40 percent below 1990 emissions by 2030.
- Identifies a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 and a reduction in anthropogenic emissions by 85 percent below 1990 levels.
- Focuses on strategies for reducing California’s dependency on petroleum to provide consumers with clean energy options that address climate change, improve air quality, and support economic growth and clean sector jobs.
- Integrates equity and protecting California’s most impacted communities as driving principles throughout the document.
- Incorporates the contribution of natural and working lands (NWL) to the state’s GHG emissions, as well as their role in achieving carbon neutrality.
- Relies on the most up-to-date science, including the need to deploy all viable tools to address the existential threat that climate change presents, including carbon capture and sequestration, as well as direct air capture.
- Evaluates the substantial health and economic benefits of taking action.
- Identifies key implementation actions to ensure success.

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

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

Executive Order S-1-07

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

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

The LCFS is designed to encourage the use of cleaner low-carbon transportation fuels in California, encourage the production of those fuels, and therefore, reduce GHG emissions and decrease petroleum dependence in the transportation sector. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are “back-loaded”, with more reductions required in the last five

years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

Senate Bill 97

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

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

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

Senate Bill 100

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

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

Senate Bill 375

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

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

Senate Bill X7-7

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

Assembly Bill 939 and Senate Bill 1374

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

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

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

The Energy Commission adopted 2008 Standards on April 23, 2008, and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. CalEEMod modeling defaults to 2008 standards. 2013 Standards were approved and have been effective

since July 1, 2014. 2016 Standards were adopted January 1, 2017. 2019 standards were published July 1, 2019 and became effective January 1, 2020. All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

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

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

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

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

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

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

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

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

The 2022 Building Energy Efficiency Standards became effective on January 1, 2023.¹⁸ The core focus of the building standards has been efficiency, but the 2019 Energy Code ventured into onsite generation by requiring solar PV on new homes, providing significant GHG savings. The 2022 update builds off this progress with expanded solar standards and the move to onsite energy storage that will help Californians save on utility bills while bolstering the grid. The 2022 Energy Code update focuses on four key areas in new construction of homes and businesses:

- Encouraging electric heat pump technology and use, which consumes less energy and produces fewer emissions than traditional HVACs and water heaters.
- Establishing electric-ready requirements when natural gas is installed, which positions owners to use cleaner electric heating, cooking and electric vehicle (EV) charging options whenever they choose to adopt those technologies.
- Expanding solar photovoltaic (PV) system and battery storage standards to make clean energy available onsite and complement the state's progress toward a 100 percent clean electricity grid.
- Strengthening ventilation standards to improve indoor air quality.

The 2022 Energy Code affects homes by establishing energy budgets based on efficient heat pumps for space or water heating to encourage builders to install heat pumps over gas-fueled HVAC units; requiring homes to be electric-ready, with dedicated 240-volt outlets and space (with plumbing for water heaters) so electric appliances can eventually replace installed gas appliances; increasing minimum kitchen ventilation requirements so that fans over cooktops have higher airflow or capture efficiency to better exhaust pollution from gas cooking and improve indoor air quality; and allowing exceptions to existing solar PV standards when roof area is not available (such as for smaller homes). In addition, the effect on businesses includes establishing combined solar PV and battery standards for select businesses with systems being sized to maximize onsite use of solar energy and avoid electricity demand during times when the grid must use gas-powered plants; establishing new efficiency standards for commercial greenhouses (primarily cannabis growing); and improving efficiency standards for building envelope, various internal.

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-

¹⁸ California Energy Commission (CEC). 2022. Building Energy Efficiency Standards. <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency>.

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. The 2019 version of the California Green Building Standards became effective January 1, 2020.

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.

The 2022 California Green Building Standards Code became effective on January 1, 2023.¹⁹

HCD amended Section 5.106.5.3 in regard to increasing the EV capable space percentages and adding a new requirement for installed Level 2 DCFC chargers.

HCD under Section 5.106.5.4 added new regulation for electric vehicle charging readiness requirements for new construction of warehouse, grocery stores, and retail stores with planned off-street loading spaces.²⁰

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.

¹⁹ California Building Standards Commission (CBSC). 2022. California Green Building Standards. Website: <https://codes.iccsafe.org/content/CAGBC2022P1>.

²⁰ <https://www.dgs.ca.gov/BSC/Resources/2022-Title-24-California-Code-Changes>

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.²¹

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."²² 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

²¹ 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>

²² California Building Standards Commission, 2010 California Green Building Standards Code, (2010).

mandatory measures include energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2022 to include new mandatory measures for residential and nonresidential uses; the new measures took effect on January 1, 2023.

Regional – South Coast Air Quality Management District

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

SCAQMD Regulation XXVII, Climate Change

SCAQMD Regulation XXVII currently includes three rules:

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

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of threshold approaches but did not recommend one approach (2008). The ARB recommended approaches for setting interim significance thresholds (California Air Resources Board 2008b), in which a draft industrial project threshold suggests that non-transportation related emissions under 7,000 MTCO_{2e} per year would be less than significant; however, the ARB has not approved those thresholds and has not published anything since then. The SCAQMD is in the process of developing thresholds, as discussed below.

SCAQMD Threshold Development

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

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

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

- All land use types: 3,000 MTCO₂e per year
- Based on land use type: residential: 3,500 MTCO₂e per year; commercial: 1,400 MTCO₂e per year; or mixed use: 3,000 MTCO₂e per year.
- Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 MTCO₂e per year.
- Tier 4 has the following options:
 - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
 - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
 - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e/SP/year for projects and 6.6 MTCO₂e/SP/year for plans;
 - Option 3, 2035 target: 3.0 MTCO₂e/SP/year for projects and 4.1 MTCO₂e/SP/year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures. A GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that staff estimates that these GHG emissions would account for slightly less than one percent of future 2050 statewide GHG emissions target (85 MMTCO₂eq/year). In addition, these small projects may be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory. Finally, these small sources are already subject to BACT for criteria pollutants and are more likely to be single-permit facilities, so they are more likely to have few opportunities readily available to reduce GHG emissions from other parts of their facility.

SCAQMD Working Group

Since neither the CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions thresholds, which recommends a tiered approach that provides a quantitative annual threshold of 10,000 MTCO₂e for industrial uses.

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

SCAQMD Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2700 establishes definitions for the various terms used in Regulation XXVII – Global Climate Change. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission

reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan to reduce GHG emissions. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

SCAQMD Rule 2702

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

SCAQMD Rule 3002

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of CO₂e 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 Whittier

The City of Whittier does not currently have a Climate Action Plan.

The Resource Management Element of the Envision Whittier General Plan includes the following applicable greenhouse gas related goals and policies:

Goal 3 Energy efficiency and conservation measures that reduce air pollution and greenhouse gas emissions.

- RM-3.1: Reduce emissions generated by motorized vehicles.
- RM-3.2: Reduce energy use in municipal and construction operations.
- RM-3.3: Support the use of energy-efficient design and renewable energy technologies in public and private spaces and development projects.
- RM-3.4: Prioritize compact and equitable development that supports walking and biking to nearby destinations.
- RM-3.5: Increase public awareness about climate change and encourage residents and businesses to become involved in improvement projects and lifestyle changes that help reduce greenhouse gas emissions.

Goal 6 A commitment to sustainability through progressive use of green building policies, practices, and technologies.

- RM-6.1: Support energy efficiency through the Municipal Code and implementation of CalGreen standards.

Goal 7 Increased commitment to renewable energy sources.

In addition, the Public Safety, Noise and Health Element of the Envision Whittier General Plan includes the following goals and policies related to climate adaptation:

Goal 8 An adaptive community responsive to changing climate solutions.

- PSNH-8.2: Require the passive solar design of projects to address the possible effects of extreme heat events, such as requiring shade trees and shade shelter areas, shaded playgrounds, bus shelters, and placement of structures that account for proper sun exposure to reduce heat within structures.
- PSNH-8.3: Encourage use of pavement materials designed to reflect solar energy, speed up evaporation, and otherwise stay cooler than traditional pavements.
- PSNH-8.4: Encourage redundant power sources such as generators or renewable energy sources to help assure power is available for increased power needs in the heat events and to minimize blackouts.

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 emissions²³.

Thresholds of Significance for this Project

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

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 2022.1.1.13 was used to calculate the GHG emissions from the proposed project. The CalEEMod Output for year 2024 is available in Appendix B. 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.

²³ 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.

Energy Usage

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

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the Trip Generation Memo into the CalEEMod Model. The program then applies the emission factors for each trip which is provided by the EMFAC2021 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. No 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 B. 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 5,710.83 MTCO₂e per year. According to the thresholds of significance established above, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations of the proposed project would exceed the SCAQMD threshold of 10,000 MTCO₂e per year for industrial uses. Therefore, operation of the proposed project would not create a significant cumulative impact to global climate change. No mitigation is required.

Table 21
Project-Related Greenhouse Gas Emissions

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO ₂	NonBio-CO ₂	CO ₂	CH ₄	N ₂ O	CO ₂ e
Maximum Annual Operations	54.50	5,356.00	5,410.00	5.78	0.38	5,685.00
Construction ¹	0.00	25.40	25.40	0.00	0.00	25.83
Total Emissions	54.50	5,381.40	5,435.40	5.78	0.38	5,710.83
SCAQMD Screening Threshold for Industrial Uses						10,000
Exceeds Threshold?						No

Notes:

Source: CalEEMod Version 2022.1.1.13 for Opening Year 2024.

(1) Construction GHG emissions CO₂e based on a 30 year amortization rate.

CONSISTENCY WITH APPLICABLE GREENHOUSE GAS REDUCTION PLANS AND POLICIES

The proposed project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. As stated previously, the City of Whittier does not currently have a Climate Action Plan; therefore, the project has been compared to the goals of the CARB Scoping Plan.

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 MTCO₂e 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.

Scoping Plan

Emission reductions in California alone would not be able to stabilize the concentration of greenhouse gases in the earth's atmosphere. However, California's actions set an example and drive progress towards a reduction in greenhouse gases elsewhere. If other states and countries were to follow California's emission reduction targets, this could avoid medium or higher ranges of global temperature increases. Thus, severe consequences of climate change could also be avoided.

The ARB Board approved a Climate Change Scoping Plan in December 2008. The Scoping Plan outlines the State's strategy to achieve the 2020 greenhouse gas emissions limit. The Scoping Plan "proposes a comprehensive set of actions designed to reduce overall greenhouse gas emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health" (California Air Resources Board 2008). The measures in the Scoping Plan have been in place since 2012.

In May 2014, CARB released its *First Update to the Climate Change Scoping Plan* (CARB 2014). This *Update* identifies the next steps for California's leadership on climate change. While California continues on its path to meet the near-term 2020 greenhouse gas limit, it must also set a clear path toward long-term, deep GHG emission reductions. This report highlights California's success to date in reducing its GHG emissions and lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050.

In November 2017, the CARB released the 2017 Scoping Plan. This Scoping Plan incorporates, coordinates, and leverages many existing and ongoing efforts and identifies new policies and actions to accomplish the State's climate goals, and includes a description of a suite of specific actions to meet the State's 2030 GHG

limit. In addition, Chapter 4 provides a broader description of the many actions and proposals being explored across the sectors, including the natural resources sector, to achieve the State’s mid and long-term climate goals.

Guided by legislative direction, the actions identified in the 2017 Scoping Plan reduce overall GHG emissions in California and deliver policy signals that will continue to drive investment and certainty in a low carbon economy. The 2017 Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while identifying new, technologically feasible, and cost-effective strategies to ensure that California meets its GHG reduction targets for SB 32 in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities. The Plan includes policies to require direct GHG reductions at some of the State’s largest stationary sources and mobile sources. These policies include the use of lower GHG fuels, efficiency regulations, and the Cap-and Trade Program, which constrains and reduces emissions at covered sources.

Independent studies confirm CARB’s determination that the state’s existing and proposed regulatory framework will put the state on a pathway to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050 if additional appropriate reduction measures are adopted.²⁴ Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the studies would allow the state to meet the 2050 target.

In November of 2022, the CARB released the 2022 Scoping Plan. The 2022 Scoping Plan lays out a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels no later than 2045, as directed by Assembly Bill 1279. The actions and outcomes in the plan will achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon.

In addition, on May 22, 2014, CARB approved its first update to the AB 32 Scoping Plan (CARB’s First Update).²⁵ CARB’s First Update “lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050,” and many of the emission reduction strategies recommended by ARB would serve to reduce the Project’s post-2020 emissions level to the extent required by applicable by law. As the latest, 2022 Scoping Plan builds upon previous versions, project consistency with applicable strategies of the 2008, 2017, and 2022 Plan are assessed in Table 22. As shown in Table 22, the project is consistent with the applicable strategies within the Scoping Plan.

²⁴ Energy and Environmental Economics (E3). “Summary of the California State Agencies’ PATHWAYS Project: Long-term Greenhouse Gas Reduction Scenarios” (April 2015); Greenblatt, Jeffrey, Energy Policy, “Modeling California Impacts on Greenhouse Gas Emissions” (Vol. 78, pp. 158–172). The California Air Resources Board, California Energy Commission, California Public Utilities Commission, and the California Independent System Operator engaged E3 to evaluate the feasibility and cost of a range of potential 2030 targets along the way to the state’s goal of reducing GHG emissions to 80 percent below 1990 levels by 2050. With input from the agencies, E3 developed scenarios that explore the potential pace at which emission reductions can be achieved, as well as the mix of technologies and practices deployed. E3 conducted the analysis using its California PATHWAYS model. Enhanced specifically for this study, the model encompasses the entire California economy with detailed representations of the buildings, industry, transportation and electricity sectors. https://www.ethree.com/wp-content/uploads/2017/02/E3_Project_Overview_20150406.pdf

²⁵ California Air Resources Board, First Update to the Climate Change Scoping Plan, May 2014; https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf

Table 22 (1 of 2)
Project Consistency with CARB Scoping Plan Policies and Measures

2008 Scoping Plan Measures to Reduce Greenhouse Gas Emissions	Project Compliance with Measure
California Light-Duty Vehicle Greenhouse Gas Standards – Implement adopted standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Energy Efficiency – Maximize energy efficiency building and appliance standards; pursue additional efficiency including new technologies, policy, and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California.	No Conflict. The project will be compliant with the current Title 24 standards.
Low Carbon Fuel Standard – Develop and adopt the Low Carbon Fuel Standard.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Vehicle Efficiency Measures – Implement light-duty vehicle efficiency measures.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Medium/Heavy-Duty Vehicles – Adopt medium and heavy-duty vehicle efficiency measures.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Green Building Strategy – Expand the use of green building practices to reduce the carbon footprint of California’s new and existing inventory of buildings.	No Conflict. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that are mandatory in the 2019 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. In addition, the 2022 edition of the Code took effect January 1, 2023. The project will be subject to these mandatory standards.
High Global Warming Potential Gases – Adopt measures to reduce high global warming potential gases.	No Conflict. CARB identified five measures that reduce HFC emissions from vehicular and commercial refrigeration systems; vehicles that access the project that are required to comply with the measures will comply with the strategy.
Recycling and Waste – Reduce methane emissions at landfills. Increase waste diversion, composting, and commercial recycling. Move toward zero-waste.	No Conflict. The state is currently developing a regulation to reduce methane emissions from municipal solid waste landfills. The project will be required to comply with City programs, such as City’s recycling and waste reduction program, which comply, with the 75 percent reduction required by 2020 per AB 341.
Water – Continue efficiency programs and use cleaner energy sources to move and treat water.	No Conflict. The project will comply with all applicable City ordinances and CAL Green requirements.

2017 Scoping Plan Recommended Actions to Reduce Greenhouse Gas Emissions	Project Compliance with Recommended Action
Implement Mobile Source Strategy: Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean Car regulations.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Implement Mobile Source Strategy: At least 1.5 million zero emission and plug-in hybrid light-duty electric vehicles by 2025 and at least 4.2 million zero emission and plug-in hybrid light-duty electric vehicles by 2030.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Implement Mobile Source Strategy: Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20 percent of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100 percent of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-duty low-NOX standard.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.

Table 22 (2 of 2)
Project Consistency with CARB Scoping Plan Policies and Measures

Implement Mobile Source Strategy: Last Mile Delivery: New regulation that would result in the use of low NOX or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5 percent of new Class 3-7 truck sales in local fleets starting in 2020, increasing to 10 percent in 2025 and remaining flat through 2030.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Implement SB 350 by 2030: Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030.	No Conflict. The project will be compliant with the current Title 24 standards.
By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.	No Conflict. The project will be required to comply with City programs, such as City's recycling and waste reduction program, which comply, with the 75 percent reduction required by 2020 per AB 341.

2022 Scoping Plan Priority Key Actions and Recommendations	Project Compliance with Recommended Actions
100 percent of light-duty vehicle sales are ZEVs by 2035.	Not Applicable. This action is in regard to vehicle sales, with an aim to have 100 percent of light-duty vehicle sales be ZEVs by 2035. The proposed project is industrial use and would not interfere with such policymaking.
VMT per capita reduced 25 percent below 2019 levels by 2030 and 30 percent below 2019 levels by 2045.	No Conflict. The Project would not result in an unmitigated impact to VMT. The Project is an industrial use located in close proximity to existing public transit, including metro and bus lines. Therefore, the Project would be anticipated to contribute to a reduction in VMT per capita.
All electric appliances in new construction beginning 2026 (residential) and 2029 (commercial).	No Conflict. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that are mandatory in the 2019 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. In addition, the 2022 edition of the Code took effect January 1, 2023. The project will be subject to these mandatory standards.
For existing residential buildings, 80 percent of appliance sales are electric by 2030 and 100 percent of appliance sales are electric by 2035 (appliances replaced at end of life). For existing commercial buildings, 80 percent of appliance sales are electric by 2030 and 100 percent of appliance sales are electric by 2045 (appliances replaced at end of life)	Not Applicable. This action is in regard to appliance sales and the proposed project is an industrial use and would not interfere with such policymaking. Furthermore, although this action is not necessarily applicable on a project-specific basis, the proposed project is subject to the California Green Building Standards Code (proposed Part 11, Title 24) which was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that are mandatory in the 2019 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. In addition, the 2022 edition of the Code took effect January 1, 2023. The project will be subject to these mandatory standards.

Notes:

(1) Source: CARB Scoping Plan (2008, 2017, and 2022)

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.”²⁶ 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 CEQA Guidelines Section 15064h(3),²⁷ 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 CARB Scoping Plan.

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

²⁶ 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).

²⁷ The State CEQA Guidelines were amended in response to SB 97. In particular, the State CEQA Guidelines were amended to specify that compliance with a GHG emissions reduction program renders a cumulative impact insignificant. Per State CEQA Guidelines Section 15064(h)(3), a project’s incremental contribution to a cumulative impact can be found not cumulatively considerable if the project will comply with an approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area of the project. To qualify, such a plan or program must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. Examples of such programs include a “water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plan, [and] plans or regulations for the reduction of greenhouse gas emissions.”

5. ENERGY ANALYSIS

EXISTING CONDITIONS

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

Overview

California's estimated annual energy use as of 2021 included:

- Approximately 277,764 gigawatt hours of electricity;²⁸
- Approximately 2,092,612 million cubic feet of natural gas per year;²⁹ and
- Approximately 23.2 billion gallons of transportation fuel (for the year 2015).³⁰

As of 2020, 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 34 percent transportation;
- Approximately 24.6 percent industrial;
- Approximately 21.8 percent residential; and
- Approximately 19.6 percent commercial.³¹

California's electricity in-state generation system generates approximately 194,127 gigawatt-hours each year. In 2021, California produced approximately 70 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 12 percent) and the U.S. Southwest (approximately 18 percent). Natural gas is the main source for electricity generation at approximately 50.2 percent of the total in-state electric generation system power as shown in Table 23.

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 2021, and, as of January 2021, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel and second-largest consumer of motor gasoline among the 50 states and accounted for fifteen percent of the nation's jet fuel consumption and ten percent of motor gasoline consumption in 2020.
- In 2019, California was the second-largest total energy consumer among the states, but its per capita energy consumption was less than in all other states except Rhode Island, due in part to its mild climate and its energy efficiency programs.
- In 2021, California was the nation's top producer of electricity from solar, geothermal, and biomass energy. The state was fourth in the nation in conventional hydroelectric power generation, down from second in 2019, in part because of drought and increased water demand.

²⁸ California Energy Commission. Energy Almanac. Total Electric Generation. [Online] 2021.

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

²⁹ Natural Gas Consumption by End Use. U.S. Energy Information Administration. [Online] 2021.

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

³⁰ California Energy Commission. Revised Transportation Energy Demand Forecast 2018-2030. [Online] 2021.

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

³¹ U.S. Energy Information Administration. California Energy Consumption by End-Use Sector, 2020.

California State Profile Overview.[Online] December 20, 2022 <https://www.eia.gov/state/?sid=CA#tabs-2>

- In 2021, California was the fourth-largest electricity producer in the nation, but the state was also the nation's second-largest consumer of electricity, and in 2020, it received about 30% of its electricity supply from generating facilities outside of California, including imports from Mexico.³²

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.³³ 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.³⁴

Table 24 identifies SCE's specific proportional shares of electricity sources in 2021. As shown in Table 24, the 2021 SCE Power Mix has renewable energy at 31.4 percent of the overall energy resources, of which biomass and waste is at 0.1 percent, geothermal is at 5.7 percent, eligible hydroelectric is at 0.5 percent, solar energy is at 14.9 percent, and wind power is at 10.2 percent; other energy sources include large hydroelectric at 2.3 percent, natural gas at 22.3 percent, nuclear at 9.2 percent, other at 0.2 percent, and unspecified sources at 34.6 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.³⁵

³² State Profile Overview. [Online] [Cited: March 17, 2022.] <https://www.eia.gov/state/?sid=CA#tabs-2>

³³ <https://www.sce.com/about-us/who-we-are/leadership/our-service-territory>

³⁴ California Energy Commission. Utility Energy Supply plans from 2015. https://www.energy.ca.gov/almanac/electricity_data/supply_forms.html

³⁵ California Public Utilities Commission. Natural Gas and California. http://www.cpuc.ca.gov/natural_gas/

Transportation Energy Resources

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

The most recent data available shows the transportation sector emits 38 percent of the total greenhouse gases in the state and about 84 percent of smog-forming oxides of nitrogen (NOx).^{36,37} About 28 percent of total United States energy consumption in 2021 was for transporting people and goods from one place to another. In 2021, petroleum comprised about 77 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels.³⁸ In 2021, about 134.83 billion gallons (or about 3.21 billion barrels) of finished motor gasoline were consumed in the United States, an average of about 369 million gallons (or about 8.8 million barrels) per day.³⁹

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.⁴⁰

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO₂ standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO₂ standards for model year 2020 are 43.7 mpg and 204 grams of CO₂ per mile for passenger cars and 31.3 mpg and 284 grams of CO₂ per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012.⁴¹

³⁶ CARB. California Greenhouse Gas Emissions Inventory – 2022 Edition. <https://www.arb.ca.gov/cc/inventory/data/data.htm>

³⁷ 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

³⁸ 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

³⁹ <https://www.eia.gov/tools/faqs/faq.php?id=23&t=10>

⁴⁰ <https://www.nhtsa.gov/lawsregulations/corporate-average-fuel-economy>.

⁴¹ 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.⁴²

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.

⁴² 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.

The 2022 Building Energy Efficiency Standards became effective on January 1, 2023.⁴³ The core focus of the building standards has been efficiency, but the 2019 Energy Code ventured into onsite generation by requiring solar PV on new homes, providing significant GHG savings. The 2022 update builds off this progress with expanded solar standards and the move to onsite energy storage that will help Californians save on utility bills while bolstering the grid. The 2022 Energy Code update focuses on four key areas in new construction of homes and businesses:

- Encouraging electric heat pump technology and use, which consumes less energy and produces fewer emissions than traditional HVACs and water heaters.
- Establishing electric-ready requirements when natural gas is installed, which positions owners to use cleaner electric heating, cooking and electric vehicle (EV) charging options whenever they choose to adopt those technologies.

⁴³ California Energy Commission (CEC). 2022. Building Energy Efficiency Standards. <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency>.

- Expanding solar photovoltaic (PV) system and battery storage standards to make clean energy available onsite and complement the state's progress toward a 100 percent clean electricity grid.
- Strengthening ventilation standards to improve indoor air quality.

The 2022 Energy Code affects homes by establishing energy budgets based on efficient heat pumps for space or water heating to encourage builders to install heat pumps over gas-fueled HVAC units; requiring homes to be electric-ready, with dedicated 240-volt outlets and space (with plumbing for water heaters) so electric appliances can eventually replace installed gas appliances; increasing minimum kitchen ventilation requirements so that fans over cooktops have higher airflow or capture efficiency to better exhaust pollution from gas cooking and improve indoor air quality; and allowing exceptions to existing solar PV standards when roof area is not available (such as for smaller homes). In addition, the effect on businesses includes establishing combined solar PV and battery standards for select businesses with systems being sized to maximize onsite use of solar energy and avoid electricity demand during times when the grid must use gas-powered plants; establishing new efficiency standards for commercial greenhouses (primarily cannabis growing); and improving efficiency standards for building envelope, various internal.

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.

The 2022 California Green Building Standards Code became effective on January 1, 2023.⁴⁴

HCD amended Section 5.106.5.3 in regard to increasing the EV capable space percentages and adding a new requirement for installed Level 2 DCFC chargers.

HCD under Section 5.106.5.4 added new regulation for electric vehicle charging readiness requirements for new construction of warehouse, grocery stores, and retail stores with planned off-street loading spaces.⁴⁵

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.

⁴⁴ California Building Standards Commission (CBSC). 2022. California Green Building Standards. Website: <https://codes.iccsafe.org/content/CAGBC2022P1>.

⁴⁵ <https://www.dgs.ca.gov/BSC/Resources/2022-Title-24-California-Code-Changes>

Assembly Bill 1493/Pavley Regulations

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

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

As discussed in Section 4 of this report, Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State’s GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

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

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

California Air Resources Board

CARB’s Advanced Clean Cars Program

Closely associated with the Pavley regulations, the Advanced Clean Cars emissions control program was approved by CARB in 2012. The program combines the control of smog, soot, and GHGs with requirements for greater numbers of zero-emission vehicles for model years 2015–2025.¹⁵ The components of the Advanced Clean Cars program include the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.⁴⁶

⁴⁶ California Air Resources Board, California’s Advanced Clean Cars Program, January 18, 2017. www.arb.ca.gov/msprog/acc/acc.htm.

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.

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 2022.1.1.13 Output contained in Appendix B, utilized for air quality and greenhouse gas analyses in Sections 2 and 4 of this report, were also utilized for this analysis. The CalEEMod output detail project related construction equipment, transportation energy demands, and facility energy demands.

Construction Energy Demands

Construction is anticipated to occur between the beginning of December 2023 and mid-December 2024, and be completed in one phase. Staging of construction vehicles and equipment will occur on-site. The approximately 12.5-month schedule is relatively short and the project site is approximately 13.49 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 2021 National Construction Estimator, Richard Pray (2021)⁴⁷, the typical power cost per 1,000 square feet of building construction per month is estimated to be \$2.37. The project plans to develop the site with a 295,959 square foot industrial use. Based on Table 25, the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately \$8,767,79. As shown in Table 14, the total electricity usage from project construction related activities is estimated to be approximately 66,544 kWh.

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

⁴⁷ Pray, Richard. 2021 National Construction Estimator. Carlsbad : Craftsman Book Company, 2021.

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 26 shows the results of the analysis of construction equipment.

As presented in Table 26, project construction activities would consume an estimated 43,341 gallons of diesel fuel. As stated previously, project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

Construction Worker Fuel Estimates

It is assumed that construction worker trips are from light duty autos (LDA), light duty truck 1 (LDT1), and light duty truck 2 (LDT2) at a mix of 25 percent/50 percent/25 percent, respectively, along area roadways.⁴⁸ With respect to estimated VMT, the construction worker trips would generate an estimated 438,822 VMT. Data regarding project related construction worker trips were based on CalEEMod 2022.1.1.13 model defaults.

Vehicle fuel efficiencies for construction workers were estimated in the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) using information generated using CARB's 2021 EMFAC model (see Appendix B for details). An aggregate fuel efficiency of 25.44 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 27 shows that an estimated 17,249 gallons of fuel would be consumed for construction worker trips.

Construction Vendor/Hauling Fuel Estimates

Tables 28 and 29 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 195,289 VMT. Data regarding project related construction worker trips were based on CalEEMod 2022.1.1.13 model defaults.

For the architectural coatings it is assumed that the contractors would be responsible for bringing coatings and equipment with them in their light duty vehicles. Therefore, vendors delivering construction material or hauling debris from the site during grading would use medium to heavy duty vehicles with an average fuel consumption of 7.66 mpg for medium heavy-duty trucks and 6.29 for heavy heavy-duty trucks (see Appendix B for details).⁴⁹ Tables 28 and 29 show that an estimated 29,866 gallons of fuel would be consumed for vendor and hauling trips.

Construction Energy Efficiency/Conservation Measures

Construction equipment used over the approximately 12.5-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.

⁴⁸ CalEEMod User's Guide Appendix C (April 2022) states that construction work trips are made by a fleet consisting of 25 percent light-duty auto (or passenger car), 50 percent light-duty truck type 1 (LDT1), and 25 percent light-duty truck type 2 (LDT2).

⁴⁹ CalEEMod User's Guide Appendix C (April 2022) states that vendor trips are made by a fleet consisting of 50 percent medium trucks (MHDT) and 50 percent heavy trucks (HHDT) and that hauling and onsite truck trips are made by a fleet consisting of 100 percent HHDT.

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 14.4 miles and 3- 4-axle trucks were assumed to travel an average of 40 miles.⁵⁰ As the project includes the development of the site with industrial uses; therefore, in order to present a worst-case scenario, it was assumed that vehicles would operate 365 days per year. Table 30 shows the estimated annual fuel consumption for all classes of vehicles from autos to heavy-heavy trucks.⁵¹

The proposed project would generate 998 trips per day. The vehicle fleet mix was used from the CalEEMod output. Table 30 shows that an estimated 544,818 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 (11th Edition, 2021). 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.^{52,53} 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

⁵⁰ CalEEMod default distance for H-W (home-work) is 14.4 miles and 8.85 miles for W-O (work-other). However, due to the project's industrial use the distance for W-O (work-other) was changed to 40 miles per SCAQMD recommendations.

⁵¹ Average fuel economy based on aggregate mileage calculated in EMFAC 2021 for opening year (2024). See Appendix B for EMFAC output.

⁵² <https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-gasoline-data-facts-and-statistics>

⁵³ <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 31.

As shown in Table 31, the estimated electricity demand for the proposed project is approximately 5,417,283 kWh per year. In 2021, the non-residential sector of the County of Los Angeles consumed approximately 44,438 million kWh of electricity.⁵⁴ In addition, the estimated natural gas consumption for the proposed project is approximately 7,501,515 kBtu per year. In 2021, the non-residential sector of the County of Los Angeles consumed approximately 1,743 million therms of gas.⁵⁵ Therefore, the increase in both electricity and natural gas demand from the proposed project is insignificant compared to the County's 2021 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.). The proposed project would be required to comply with Title 24 standards.

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 goals of the CARB Scoping Plan.

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

⁵⁴ California Energy Commission, Electricity Consumption by County. <https://ecdms.energy.ca.gov/elecbycounty.aspx>

⁵⁵ 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 uses and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

Table 23
Total Electricity System Power (California 2021)

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	303	0.20%	181	7,788	7,969	9.50%	8,272	3.00%
Natural Gas	97,431	50.20%	45	7,880	7,925	9.50%	105,356	37.90%
Oil	37	0.00%	-	-	-	0.00%	37	0.00%
Other (Waste Heat/Petroleum Coke)	382	0.20%	68	15	83	0.10%	465	0.20%
Nuclear	16,477	8.50%	524	8756	9281	11.10%	25,758	9.30%
Large Hydro	12,036	6.20%	12,042	1,578	13,620	16.30%	25,656	9.20%
Unspecified Sources of Power	-	0.00%	8,156	10,731	18,887	22.60%	18,887	6.80%
Renewables	67,461	34.80%	11,555	14,317	25,872	30.90%	93,333	33.60%
Biomass	5,381	2.80%	864	26	890	1.10%	6,271	2.30%
Geothermal	11,116	5.70%	192	1,906	2,098	2.50%	13,214	4.80%
Small Hydro	2,531	1.30%	304	1	304	0.40%	2,835	1.00%
Solar	33,260	17.10%	220	5,979	6,199	7.40%	39,458	14.20%
Wind	15,173	7.80%	9,976	6,405	16,381	19.60%	31,555	11.40%
Total	194,127	100%	32,572	51,064	83,636	100%	277,764	100%

Notes:

(1) Source: California Energy Commission. 2021 Total System Electric Generation. <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2021-total-system-electric-generation>

Table 24
SCE 2021 Power Content Mix

Energy Resources	2021 SCE Power Mix
Eligible Renewable	31.4%
<i>Biomass & Biowaste</i>	0.1%
<i>Geothermal</i>	5.7%
<i>Eligible Hydroelectric</i>	0.5%
<i>Solar</i>	14.9%
<i>Wind</i>	10.2%
Coal	0.0%
Large Hydroelectric	2.3%
Natural Gas	22.3%
Nuclear	9.2%
Other	0.2%
Unspecified Sources of power*	34.6%
Total	100%

Notes:

(1) Source: <https://www.energy.ca.gov/filebrowser/download/4676>

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

Table 25
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
\$2.37	295.959	12.5	\$8,767.79

Cost per kWh	Total Project Construction Electricity Usage (kWh)
\$0.13	66,544

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

**Table 26
Construction Equipment Fuel Consumption Estimates**

Phase	Number of Days	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	HP hrs/day	Total Fuel Consumption (gal diesel fuel) ¹
Demolition	52	Concrete/Industrial Saws	1	8	33	0.73	193	542
	52	Excavators	3	8	36	0.38	328	923
	52	Rubber Tired Dozers	2	8	367	0.40	2,349	6,602
Site Preparation	9	Rubber Tired Dozers	3	8	367	0.40	3,523	1,714
	9	Tractors/Loaders/Backhoes	4	8	84	0.37	995	484
Grading	42	Excavators	2	8	36	0.38	219	497
	42	Graders	1	8	148	0.41	485	1,102
	42	Rubber Tired Dozers	1	8	367	0.4	1,174	2,666
	42	Scrapers	2	8	423	0.48	3,249	7,375
	42	Tractors/Loaders/Backhoes	2	8	84	0.37	497	1,129
Building Construction	153	Cranes	1	7	367	0.29	745	6,161
	153	Forklifts	3	8	82	0.2	394	3,255
	153	Generator Sets	1	8	14	0.74	83	685
	153	Tractors/Loaders/Backhoes	3	7	84	0.37	653	5,398
	153	Welders	1	8	46	0.45	166	1,370
Paving	42	Pavers	2	8	81	0.42	544	1,236
	42	Paving Equipment	2	8	89	0.36	513	1,164
	42	Rollers	2	8	36	0.38	219	497
Architectural Coating	94	Air Compressors	1	6	37	0.48	107	541
CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)								43,341

Notes:

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

**Table 27
Construction Worker Fuel Consumption Estimates**

Phase	Number of Days	Worker Trips/Day	Trip Length (miles) ¹	Vehicle Miles Traveled ¹	Average Vehicle Fuel Economy (mpg) ²	Estimated Fuel Consumption (gallons)
Demolition	52	15	18.5	14,430	25.44	567
Site Preparation	9	17.5	18.5	2,914	25.44	115
Grading	42	20	18.5	15,540	25.44	611
Building Construction	153	124	18.5	350,982	25.44	13,796
Paving	42	15	18.5	11,655	25.44	458
Architectural Coating	94	24.9	18.5	43,301	25.44	1,702
Total Construction Worker Fuel Consumption						17,249

Notes:

- (1) Assumptions for the worker trip length and vehicle miles traveled are consistent with CalEEMod 2022.1.1.13 defaults.
- (2) Per CalEEMod User's Guide Appendix C (April 2022), CalEEMod assumes that construction work trips are made by a fleet consisting of 25 percent light-duty auto (or passenger car), 50 percent light-duty truck type 1 (LDT1), and 25 percent light duty truck type 2 (LDT2).

Table 28
Construction Vendor Fuel Consumption Estimates (MHD & HHD Trucks)

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles) ¹	Vehicle Miles Traveled ¹	Average Vehicle Fuel Economy (mpg) ²	Estimated Fuel Consumption (gallons)
Demolition	52	0	10.20	0	6.98	0
Site Preparation	9	0	10.20	0	6.98	0
Grading	42	0	10.20	0	6.98	0
Building Construction	153	48.5	10.20	75,689	6.98	10,851
Paving	42	0	10.20	0	6.98	0
Architectural Coating	94	0	10.20	0	6.98	0
Total Construction Vendor Fuel Consumption						10,851

Notes:

- (1) Assumptions for the vendor trip length and vehicle miles traveled are consistent with CalEEMod 2022.1.1.13 defaults.
- (2) Per CalEEMod User's Guide Appendix C (April 2022), CalEEMod assumes vendor trips are made by a fleet consisting of 50 percent medium trucks (MHDT) and 50 percent heavy trucks (HHDT).

**Table 29
Construction Hauling Fuel Consumption Estimates (HHD Trucks)**

Phase	Number of Days	Total Hauling Trips	Trip Length (miles) ¹	Vehicle Miles Traveled ¹	Average Vehicle Fuel Economy (mpg) ²	Estimated Fuel Consumption (gallons)
Demolition	52	115	20	119,600	6.29	19,014
Site Preparation	9	0	20	0	6.29	0
Grading	42	0	20	0	6.29	0
Building Construction	153	0	20	0	6.29	0
Paving	42	0	20	0	6.29	0
Architectural Coating	94	0	20	0	6.29	0
Total Construction Hauling Fuel Consumption						19,014

Notes:

- (1) Assumptions for the hauling trip length and vehicle miles traveled are consistent with CalEEMod Version 2022.1.1.13 defaults.
- (2) Per CalEEMod User's Guide Appendix C (April 2022), CalEEMod assumes hauling and onsite truck trips are made by a fleet consisting of 100 percent HHDT.

Table 30
Estimated Vehicle Operations Fuel Consumption

Vehicle Type	Vehicle Mix	Number of Vehicles	Average Trip (miles) ¹	Daily VMT	Average Fuel Economy (mpg) ²	Total Gallons per Day	Total Annual Fuel Consumption (gallons)
Light Auto	Automobile	450	14.4	6,457	31.35	205.96	75,175
Light Truck	Automobile	39	14.4	564	24.4	23.13	8,442
Light Truck	Automobile	200	14.4	2,874	23.91	120.19	43,868
Light Heavy Truck	2-Axle Truck	10	40.0	400	15.57	25.69	9,377
Light Heavy Truck 10,000 lbs +	2-Axle Truck	3	40.0	120	14.86	8.08	2,948
Motorcycle	Automobile	18	14.4	258	41.52	6.23	2,272
Medium Truck	Automobile	122	14.4	1,752	19.6	89.38	32,625
Motor Home	--	0	40.0	0	5.73	0.00	0
Medium Heavy Truck	3-Axle Truck	12	40.0	480	7.75	61.94	22,606
Other Bus	--	0	40.0	0	6.07	0.00	0
School Bus	--	0	40.0	0	6.49	0.00	0
Urban Bus	--	0	40.0	0	3.45	0.00	0
Heavy Heavy Truck	4-Axle Truck	144	40.0	5,760	6.05	952.07	347,504
Total		998	--	18,665	-	1,492.65	--
Total Annual Fuel Consumption							544,818

Notes:

- (1) Based on the size of the site and relative location, trips were assumed to be local rather than regional.
- (2) Based on EMFAC2021 emission rates for opening year of 2024.

Table 31
Project Annual Operational Energy Demand Summary

Natural Gas Demand	kBTU/year ¹
Industrial Park	7,501,515
Total	7,501,515

Electricity Demand	kWh/year ¹
Industrial Park	5,274,074
Parking Lot	143,209
Total	5,417,283

Notes:

(1) Taken from the CalEEMod Version 2022.1.1.13 output (Appendix B of this report).

6. EMISSIONS REDUCTION MEASURES

CONSTRUCTION MEASURES

Adherence to SCAQMD Rule 403 is required.

No construction mitigation is required.

OPERATIONAL MEASURES

No operational mitigation is required.

7. REFERENCES

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APPENDICES

Appendix A Glossary of Terms

Appendix B CalEEMod Model Detailed Report & EMFAC Data

Appendix C HRA Data and AERMOD Model Printouts

APPENDIX A
GLOSSARY OF TERMS

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH ₄	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
MTCO ₂ e	Metric tons of carbon dioxide equivalent
MMTCO ₂ e	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen Oxides
NO ₂	Nitrogen dioxide
N ₂ O	Nitrous oxide
O ₃	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM ₁₀	Particles that are less than 10 micrometers in diameter
PM _{2.5}	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SANBAG	San Bernardino Association of Governments
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SSAB	Salton Sea Air Basin
SF ₆	Sulfur hexafluoride
SIP	State Implementation Plan
SO _x	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

CALEEMOD MODEL DETAILED REPORT & EMFAC DATA

19391 Whittier Boulevard Business Park Detailed Report

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4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.2. Unmitigated

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	19391 Whittier Boulevard Business Park
Construction Start Date	12/1/2023
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	18.8
Location	12352 Whittier Blvd, Whittier, CA 90606, USA
County	Los Angeles-South Coast
City	Whittier
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4815
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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Industrial Park	296	1000sqft	6.63	295,959	78,889	—	—	—
Parking Lot	417	Space	3.75	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	1.29	Acre	1.29	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.29	33.1	34.4	37.6	0.06	1.45	2.65	4.10	1.33	1.01	2.34	—	7,926	7,926	0.32	0.33	13.4	8,044
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.42	33.0	38.4	35.7	0.09	1.60	8.58	9.88	1.47	2.68	4.15	—	11,849	11,849	0.64	1.33	0.51	12,263
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.03	9.38	14.8	18.1	0.03	0.57	2.10	2.68	0.53	0.54	1.07	—	4,600	4,600	0.20	0.25	2.98	4,683
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.37	1.71	2.71	3.30	0.01	0.10	0.38	0.49	0.10	0.10	0.20	—	762	762	0.03	0.04	0.49	775

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.29	33.1	34.4	37.6	0.06	1.45	2.65	4.10	1.33	1.01	2.34	—	7,926	7,926	0.32	0.33	13.4	8,044
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.13	3.08	38.4	28.6	0.09	1.30	8.58	9.88	1.21	1.57	2.77	—	11,849	11,849	0.64	1.33	0.51	12,263
2024	4.42	33.0	36.1	35.7	0.09	1.60	8.53	9.69	1.47	2.68	4.15	—	11,715	11,715	0.58	1.33	0.50	12,127
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.25	0.19	2.34	1.73	0.01	0.08	0.52	0.60	0.07	0.09	0.17	—	719	719	0.04	0.08	0.51	745
2024	2.03	9.38	14.8	18.1	0.03	0.57	2.10	2.68	0.53	0.54	1.07	—	4,600	4,600	0.20	0.25	2.98	4,683
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.05	0.03	0.43	0.32	< 0.005	0.01	0.09	0.11	0.01	0.02	0.03	—	119	119	0.01	0.01	0.08	123
2024	0.37	1.71	2.71	3.30	0.01	0.10	0.38	0.49	0.10	0.10	0.20	—	762	762	0.03	0.04	0.49	775

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.35	13.1	17.6	70.7	0.22	0.38	5.70	6.08	0.37	1.09	1.46	329	32,782	33,111	34.9	2.26	147	34,803
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.03	11.0	18.4	51.9	0.21	0.36	5.70	6.06	0.35	1.09	1.44	329	32,160	32,489	34.9	2.28	78.9	34,120

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.58	12.4	18.7	62.4	0.22	0.37	5.70	6.07	0.36	1.09	1.45	329	32,349	32,678	34.9	2.28	107	34,338
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.20	2.27	3.41	11.4	0.04	0.07	1.04	1.11	0.07	0.20	0.26	54.5	5,356	5,410	5.78	0.38	17.8	5,685

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.84	3.79	15.5	56.2	0.21	0.21	5.70	5.91	0.20	1.09	1.28	—	21,742	21,742	0.93	1.87	70.4	22,392
Area	2.29	9.23	0.11	12.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	52.9	52.9	< 0.005	< 0.005	—	53.1
Energy	0.22	0.11	2.01	1.69	0.01	0.15	—	0.15	0.15	—	0.15	—	10,300	10,300	0.70	0.06	—	10,336
Water	—	—	—	—	—	—	—	—	—	—	—	131	688	819	13.5	0.32	—	1,253
Waste	—	—	—	—	—	—	—	—	—	—	—	198	0.00	198	19.8	0.00	—	692
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.0	77.0
Total	7.35	13.1	17.6	70.7	0.22	0.38	5.70	6.08	0.37	1.09	1.46	329	32,782	33,111	34.9	2.26	147	34,803
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.81	3.77	16.4	50.2	0.20	0.21	5.70	5.91	0.20	1.09	1.28	—	21,173	21,173	0.94	1.89	1.82	21,762
Area	—	7.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.22	0.11	2.01	1.69	0.01	0.15	—	0.15	0.15	—	0.15	—	10,300	10,300	0.70	0.06	—	10,336
Water	—	—	—	—	—	—	—	—	—	—	—	131	688	819	13.5	0.32	—	1,253
Waste	—	—	—	—	—	—	—	—	—	—	—	198	0.00	198	19.8	0.00	—	692
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.0	77.0

Total	5.03	11.0	18.4	51.9	0.21	0.36	5.70	6.06	0.35	1.09	1.44	329	32,160	32,489	34.9	2.28	78.9	34,120
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.79	3.75	16.6	51.9	0.20	0.21	5.70	5.91	0.20	1.09	1.28	—	21,325	21,325	0.94	1.89	30.4	21,943
Area	1.57	8.57	0.07	8.81	< 0.005	0.01	—	0.01	0.02	—	0.02	—	36.3	36.3	< 0.005	< 0.005	—	36.4
Energy	0.22	0.11	2.01	1.69	0.01	0.15	—	0.15	0.15	—	0.15	—	10,300	10,300	0.70	0.06	—	10,336
Water	—	—	—	—	—	—	—	—	—	—	—	131	688	819	13.5	0.32	—	1,253
Waste	—	—	—	—	—	—	—	—	—	—	—	198	0.00	198	19.8	0.00	—	692
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.0	77.0
Total	6.58	12.4	18.7	62.4	0.22	0.37	5.70	6.07	0.36	1.09	1.45	329	32,349	32,678	34.9	2.28	107	34,338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.87	0.68	3.02	9.46	0.04	0.04	1.04	1.08	0.04	0.20	0.23	—	3,531	3,531	0.16	0.31	5.03	3,633
Area	0.29	1.56	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.00	6.00	< 0.005	< 0.005	—	6.02
Energy	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,705	1,705	0.12	0.01	—	1,711
Water	—	—	—	—	—	—	—	—	—	—	—	21.7	114	136	2.23	0.05	—	207
Waste	—	—	—	—	—	—	—	—	—	—	—	32.7	0.00	32.7	3.27	0.00	—	115
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Total	1.20	2.27	3.41	11.4	0.04	0.07	1.04	1.11	0.07	0.20	0.26	54.5	5,356	5,410	5.78	0.38	17.8	5,685

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	6.21	6.21	—	0.94	0.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.66	1.42	< 0.005	0.07	—	0.07	0.07	—	0.07	—	208	208	0.01	< 0.005	—	209
Demolition	—	—	—	—	—	—	0.38	0.38	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.30	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Demolition	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	205	205	0.01	0.01	0.02	208
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.66	0.17	11.0	4.04	0.05	0.10	2.18	2.28	0.10	0.58	0.68	—	8,219	8,219	0.49	1.30	0.48	8,618
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	12.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.01	0.67	0.24	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	499	499	0.03	0.08	0.49	523
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.09	2.09	< 0.005	< 0.005	< 0.005	2.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.04	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	82.5	82.5	< 0.005	0.01	0.08	86.6

3.3. Demolition (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.12	2.62	24.9	21.7	0.03	1.06	—	1.06	0.98	—	0.98	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	6.21	6.21	—	0.94	0.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	2.09	1.83	< 0.005	0.09	—	0.09	0.08	—	0.08	—	288	288	0.01	< 0.005	—	289

Demolition	—	—	—	—	—	—	0.52	0.52	—	0.08	0.08	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.05	0.04	0.38	0.33	< 0.005	0.02	—	0.02	0.01	—	0.01	—	47.7	47.7	< 0.005	< 0.005	—	47.9
Demolition	—	—	—	—	—	—	0.10	0.10	—	0.01	0.01	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.07	0.07	0.08	0.96	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	201	201	0.01	0.01	0.02	203
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	
Hauling	0.61	0.17	10.5	3.88	0.05	0.10	2.13	2.23	0.10	0.58	0.68	—	8,089	8,089	0.43	1.30	0.48	8,487
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.1	17.1	< 0.005	< 0.005	0.03	17.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	
Hauling	0.05	0.01	0.90	0.32	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	681	681	0.04	0.11	0.68	715
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.84	2.84	< 0.005	< 0.005	0.01	2.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	
Hauling	0.01	< 0.005	0.16	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	0.01	0.02	0.11	118

3.5. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.89	0.81	< 0.005	0.04	—	0.04	0.04	—	0.04	—	131	131	0.01	< 0.005	—	131
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	21.6	21.6	< 0.005	< 0.005	—	21.7

Dust From Material Movement:	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.12	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	234	234	0.01	0.01	0.03	237
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.86	5.86	< 0.005	< 0.005	0.01	5.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	0.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Grading (2024) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement:	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement:	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.40	3.95	3.47	0.01	0.17	—	0.17	0.15	—	0.15	—	759	759	0.03	0.01	—	762
Dust From Material Movement:	—	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.72	0.63	< 0.005	0.03	—	0.03	0.03	—	0.03	—	126	126	0.01	< 0.005	—	126

Dust From Material Movement:	—	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.10	1.51	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	282	282	0.01	0.01	1.11	287
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.28	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	268	268	0.01	0.01	0.03	271
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	31.3	31.3	< 0.005	< 0.005	0.06	31.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.17	5.17	< 0.005	< 0.005	0.01	5.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.50	4.70	5.50	0.01	0.21	—	0.21	0.19	—	0.19	—	1,005	1,005	0.04	0.01	—	1,008
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.86	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	—	166	166	0.01	< 0.005	—	167
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.62	0.56	0.59	9.38	0.00	0.00	1.62	1.62	0.00	0.38	0.38	—	1,755	1,755	0.07	0.06	6.92	1,781

Vendor	0.12	0.05	1.84	0.90	0.01	0.02	0.42	0.44	0.02	0.11	0.14	—	1,565	1,565	0.06	0.22	4.24	1,635
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.61	0.55	0.70	7.93	0.00	0.00	1.62	1.62	0.00	0.38	0.38	—	1,663	1,663	0.08	0.06	0.18	1,684
Vendor	0.12	0.05	1.92	0.92	0.01	0.02	0.42	0.44	0.02	0.11	0.14	—	1,566	1,566	0.06	0.22	0.11	1,632
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.23	0.29	3.49	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	708	708	0.03	0.03	1.25	717
Vendor	0.05	0.02	0.81	0.38	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	656	656	0.03	0.09	0.77	684
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.64	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	117	117	0.01	< 0.005	0.21	119
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	109	109	< 0.005	0.01	0.13	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.90	1.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	—	175
Paving	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.8	28.8	< 0.005	< 0.005	—	28.9
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.13	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	212	212	0.01	0.01	0.84	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.08	0.96	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	201	201	0.01	0.01	0.02	203

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.4	23.4	< 0.005	< 0.005	0.04	23.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.88	3.88	< 0.005	< 0.005	0.01	3.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	29.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134

Architect Coatings	—	29.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.23	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.4	34.4	< 0.005	< 0.005	—	34.5
Architect ural Coatings	—	7.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.69	5.69	< 0.005	< 0.005	—	5.71
Architect ural Coatings	—	1.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.12	1.88	0.00	0.00	0.32	0.32	0.00	0.08	0.08	—	351	351	0.01	0.01	1.38	356
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.14	1.59	0.00	0.00	0.32	0.32	0.00	0.08	0.08	—	333	333	0.02	0.01	0.04	337
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.43	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	86.9	86.9	< 0.005	< 0.005	0.15	88.1	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.03	14.6	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	4.84	3.79	15.5	56.2	0.21	0.21	5.70	5.91	0.20	1.09	1.28	—	21,742	21,742	0.93	1.87	70.4	22,392
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.84	3.79	15.5	56.2	0.21	0.21	5.70	5.91	0.20	1.09	1.28	—	21,742	21,742	0.93	1.87	70.4	22,392

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	4.81	3.77	16.4	50.2	0.20	0.21	5.70	5.91	0.20	1.09	1.28	—	21,173	21,173	0.94	1.89	1.82	21,762
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.81	3.77	16.4	50.2	0.20	0.21	5.70	5.91	0.20	1.09	1.28	—	21,173	21,173	0.94	1.89	1.82	21,762
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.87	0.68	3.02	9.46	0.04	0.04	1.04	1.08	0.04	0.20	0.23	—	3,531	3,531	0.16	0.31	5.03	3,633
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.87	0.68	3.02	9.46	0.04	0.04	1.04	1.08	0.04	0.20	0.23	—	3,531	3,531	0.16	0.31	5.03	3,633

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,687	7,687	0.48	0.06	—	7,716

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	209	209	0.01	< 0.005	—	210
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,896	7,896	0.49	0.06	—	7,926
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	7,687	7,687	0.48	0.06	—	7,716
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	209	209	0.01	< 0.005	—	210
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,896	7,896	0.49	0.06	—	7,926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,273	1,273	0.08	0.01	—	1,277
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	34.6	34.6	< 0.005	< 0.005	—	34.7
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,307	1,307	0.08	0.01	—	1,312

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.22	0.11	2.01	1.69	0.01	0.15	—	0.15	0.15	—	0.15	—	2,404	2,404	0.21	< 0.005	—	2,411
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.22	0.11	2.01	1.69	0.01	0.15	—	0.15	0.15	—	0.15	—	2,404	2,404	0.21	< 0.005	—	2,411
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.22	0.11	2.01	1.69	0.01	0.15	—	0.15	0.15	—	0.15	—	2,404	2,404	0.21	< 0.005	—	2,411
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.22	0.11	2.01	1.69	0.01	0.15	—	0.15	0.15	—	0.15	—	2,404	2,404	0.21	< 0.005	—	2,411
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	0.03	—	0.03	—	398	398	0.04	< 0.005	—	399
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.04	0.02	0.37	0.31	< 0.005	0.03	—	0.03	0.03	—	0.03	—	398	398	0.04	< 0.005	—	399

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.29	2.11	0.11	12.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	52.9	52.9	< 0.005	< 0.005	—	53.1
Total	2.29	9.23	0.11	12.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	52.9	52.9	< 0.005	< 0.005	—	53.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	6.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	7.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	0.29	0.26	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.00	6.00	< 0.005	< 0.005	—	6.02
Total	0.29	1.56	0.01	1.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.00	6.00	< 0.005	< 0.005	—	6.02

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	131	688	819	13.5	0.32	—	1,253
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	131	688	819	13.5	0.32	—	1,253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	131	688	819	13.5	0.32	—	1,253
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	131	688	819	13.5	0.32	—	1,253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	21.7	114	136	2.23	0.05	—	207
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	21.7	114	136	2.23	0.05	—	207

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	198	0.00	198	19.8	0.00	—	692
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	198	0.00	198	19.8	0.00	—	692
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	198	0.00	198	19.8	0.00	—	692
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	198	0.00	198	19.8	0.00	—	692
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	32.7	0.00	32.7	3.27	0.00	—	115
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	32.7	0.00	32.7	3.27	0.00	—	115

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.0	77.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.0	77.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.0	77.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77.0	77.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.8	12.8

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	12/1/2023	2/12/2024	5.00	52.0	—
Site Preparation	Site Preparation	2/13/2024	2/23/2024	5.00	9.00	—
Grading	Grading	2/24/2024	4/23/2024	5.00	42.0	—
Building Construction	Building Construction	4/24/2024	11/22/2024	5.00	153	—
Paving	Paving	8/22/2024	10/20/2024	5.00	42.0	—
Architectural Coating	Architectural Coating	8/6/2024	12/15/2024	5.00	94.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	115	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—

Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	124	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	48.5	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	24.9	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	443,939	147,980	13,180

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	518,580	—
Site Preparation	—	—	13.5	0.00	—
Grading	—	—	126	0.00	—
Paving	0.00	0.00	0.00	0.00	5.04

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	0.00	0%
Parking Lot	3.75	100%
Other Non-Asphalt Surfaces	1.29	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VM/Weekday	VM/Saturday	VM/Sunday	VM/Year
Industrial Park	997	997	997	364,044	18,646	18,646	18,646	6,805,903
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	443,939	147,980	13,180

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	5,274,074	532	0.0330	0.0040	7,501,515
Parking Lot	143,209	532	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Industrial Park	68,440,519	1,106,385
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	367	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Served
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
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Temperature and Extreme Heat	12.9	annual days of extreme heat
Extreme Precipitation	5.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.43	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	62.5
AQ-PM	77.1
AQ-DPM	76.2
Drinking Water	86.4
Lead Risk Housing	85.4

Pesticides	0.00
Toxic Releases	83.5
Traffic	58.1
Effect Indicators	—
CleanUp Sites	98.7
Groundwater	90.3
Haz Waste Facilities/Generators	98.2
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	55.2
Cardio-vascular	78.4
Low Birth Weights	88.4
Socioeconomic Factor Indicators	—
Education	75.1
Housing	59.7
Linguistic	59.4
Poverty	52.4
Unemployment	25.2

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	57.02553574
Employed	67.22699859
Median HI	40.20274605

Education	—
Bachelor's or higher	20.4029257
High school enrollment	100
Preschool enrollment	44.5528038
Transportation	—
Auto Access	19.90247658
Active commuting	6.287694084
Social	—
2-parent households	32.51636084
Voting	25.21493648
Neighborhood	—
Alcohol availability	40.30540228
Park access	45.69485436
Retail density	60.01539843
Supermarket access	36.9177467
Tree canopy	52.49582959
Housing	—
Homeownership	51.52059541
Housing habitability	32.32388041
Low-inc homeowner severe housing cost burden	16.98960606
Low-inc renter severe housing cost burden	45.78467856
Uncrowded housing	43.11561658
Health Outcomes	—
Insured adults	49.96791993
Arthritis	4.2
Asthma ER Admissions	34.5
High Blood Pressure	6.5

Cancer (excluding skin)	7.2
Asthma	86.2
Coronary Heart Disease	1.7
Chronic Obstructive Pulmonary Disease	27.0
Diagnosed Diabetes	3.0
Life Expectancy at Birth	42.6
Cognitively Disabled	44.8
Physically Disabled	16.6
Heart Attack ER Admissions	8.5
Mental Health Not Good	64.8
Chronic Kidney Disease	1.1
Obesity	42.2
Pedestrian Injuries	19.6
Physical Health Not Good	26.5
Stroke	6.5
Health Risk Behaviors	—
Binge Drinking	88.4
Current Smoker	79.5
No Leisure Time for Physical Activity	29.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	55.0
Elderly	18.9
English Speaking	41.4
Foreign-born	35.8
Outdoor Workers	79.6

Climate Change Adaptive Capacity	—
Impervious Surface Cover	26.8
Traffic Density	36.7
Traffic Access	23.0
Other Indices	—
Hardship	57.3
Other Decision Support	—
2016 Voting	30.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	89.0
Healthy Places Index Score for Project Location (b)	39.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	13.49 ac site w/ 295,959 sf industrial building (footprint 288,959 sf or 6.63 ac), parking lot with 417 spaces, 78,889 sf landscaping, & assumed remainder ~1.29 acres hardscape.
Construction: Construction Phases	Per project applicant, construction to begin 12-1-2023 with demo lasting 52 days, site prep 9 days, grading 42 days, construction 153 days, paving 42 days, and coating 94 days. Existing ~213,430 sf bldg and ~305,150 sf existing paving to be demolished (total demo = ~518,580). Site anticipated to balance.
Operations: Vehicle Data	Per Trip Gen Memo, 3.37 trips/TSF/day. Percentages changed to 83.1% autos (H-W) & 16.9% trucks (W-O). Per SCAQMD W-O trip length changed to 40 miles.
Operations: Fleet Mix	Revised vehicle fleet mix per Trip Gen Memo of 83.1% Autos, 1.3% 2-Axle Trucks, 1.2% 3-Axle Trucks and 14.4% 4+ Axle Trucks.

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2023	HHDT	Aggregate	Aggregate	Gasoline	77.76705152	1555.963167	0	1.13577086	1135.77086	1904593.073	4463.059823	11986522.09	6.29	HHDT
South Coast	2023	HHDT	Aggregate	Aggregate	Diesel	88939.48335	1354183.938	0	1901.434302	1901434.302		11341687.62			
South Coast	2023	HHDT	Aggregate	Aggregate	Electricity	69.55210742	1090.269168	7969.44745	0	0		4465.990707			
South Coast	2023	HHDT	Aggregate	Aggregate	Natural Gas	9734.51825	62334.09461	0	108.4243363	108424.3363		635905.4264			
South Coast	2023	LDA	Aggregate	Aggregate	Gasoline	5370115.979	25014254.84	0	7560.140191	7560140.191	7688683.513	216250190.4	234402460.7	30.49	LDA
South Coast	2023	LDA	Aggregate	Aggregate	Diesel	15648.45784	65526.69936	0	11.94439033	11944.39033		486634.8854			
South Coast	2023	LDA	Aggregate	Aggregate	Electricity	241152.5368	1208859.723	4312325.17	0	0		11169438.62			
South Coast	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	136333.5236	563739.1202	971420.6342	116.5989322	116598.9322		6496196.814			
South Coast	2023	LDT1	Aggregate	Aggregate	Gasoline	499113.9009	2195668.394	0	753.4930394	753493.0394	754054.6567	18009866.74	18076073.23	23.97	LDT1
South Coast	2023	LDT1	Aggregate	Aggregate	Diesel	197.6298759	575.4909742	0	0.161278255	161.278255		3756.265001			
South Coast	2023	LDT1	Aggregate	Aggregate	Electricity	1012.723437	4715.252993	14723.34847	0	0		38135.23576			
South Coast	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	463.9603347	1918.475984	3964.563568	0.400339089	400.3390888		24314.99018			
South Coast	2023	LDT2	Aggregate	Aggregate	Gasoline	2429950.117	11422828.59	0	4340.074795	4340074.795	4365928.785	100292660.9	101911704.2	23.34	LDT2
South Coast	2023	LDT2	Aggregate	Aggregate	Diesel	7734.815855	37335.71589	0	10.96643985	10966.43985		337920.5463			
South Coast	2023	LDT2	Aggregate	Aggregate	Electricity	11160.73812	57317.98395	159502.5609	0	0		413130.7341			
South Coast	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	17128.65814	70827.00142	136848.0138	14.88755019	14887.55019		867992.1123			
South Coast	2023	LHDT1	Aggregate	Aggregate	Gasoline	200398.3929	2985637.46	0	589.944376	589944.376	795980.0519	7820670.654	12015327.21	15.10	LHDT1
South Coast	2023	LHDT1	Aggregate	Aggregate	Diesel	99896.36028	1256570.543	0	206.0356758	206035.6758		4194656.56			
South Coast	2023	LHDT2	Aggregate	Aggregate	Gasoline	31213.47663	465034.2937	0	99.14469838	99144.69838	206307.908	1156671.072	2985280.201	14.47	LHDT2
South Coast	2023	LHDT2	Aggregate	Aggregate	Diesel	43691.53059	549584.4908	0	107.1632097	107163.2097		1828609.129			
South Coast	2023	MCY	Aggregate	Aggregate	Gasoline	237586.076	475172.1521	0	36.88140998	36881.40998	36881.40998	1522726.619	1522726.619	41.29	MCY
South Coast	2023	MDV	Aggregate	Aggregate	Gasoline	1559902.035	7210563.701	0	3188.051046	3188051.046	3230287.568	60070040.07	61764195.73	19.12	MDV
South Coast	2023	MDV	Aggregate	Aggregate	Diesel	19613.50466	92462.53217	0	33.91368569	33913.68569		784655.9403			
South Coast	2023	MDV	Aggregate	Aggregate	Electricity	12017.75416	61732.39119	171855.0799	0	0		445125.2375			
South Coast	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	10053.44096	41570.97836	70940.44124	8.322835871	8322.835871		464374.4805			
South Coast	2023	MH	Aggregate	Aggregate	Gasoline	30468.55432	3048.074174	0	59.14587153	59145.87153	70446.99764	287687.7216	401829.5371	5.70	MH
South Coast	2023	MH	Aggregate	Aggregate	Diesel	11533.11741	1153.311741	0	11.30112611	11301.12611		114141.8155			
South Coast	2023	MHDT	Aggregate	Aggregate	Gasoline	25436.77287	508938.9517	0	266.1846594	266184.6594	808347.4856	1361855.942	6189907.424	7.66	MHDT
South Coast	2023	MHDT	Aggregate	Aggregate	Diesel	112753.1691	1384256.954	0	542.1628262	542162.8262		4826755.64			
South Coast	2023	MHDT	Aggregate	Aggregate	Electricity	60.14211345	769.7741807	1354.591964	0	0		1295.841104			
South Coast	2023	MHDT	Aggregate	Aggregate	Natural Gas	1405.746156	12603.45034	0	8.268140472	8268.140472		68507.0989			
South Coast	2023	OBUS	Aggregate	Aggregate	Gasoline	5457.340752	109190.4738	0	43.78040647	43780.40647	77110.24352	220170.8028	453397.9409	5.88	OBUS
South Coast	2023	OBUS	Aggregate	Aggregate	Diesel	2949.128306	37294.91051	0	33.32983706	33329.83706		233227.1381			
South Coast	2023	OBUS	Aggregate	Aggregate	Natural Gas	467.0036657	4156.332625	0	3.280062265	3280.062265		28665.48863			
South Coast	2023	SBUS	Aggregate	Aggregate	Gasoline	2711.533402	10846.13361	0	13.42826072	13428.26072	22892.86276	119164.9071	188479.341	8.23	SBUS
South Coast	2023	SBUS	Aggregate	Aggregate	Diesel	3377.128927	48900.82686	0	9.464602039	9464.602039		69271.73995			
South Coast	2023	SBUS	Aggregate	Aggregate	Electricity	3.674682915	53.20940862	49.36713892	0	0		42.69400814			
South Coast	2023	SBUS	Aggregate	Aggregate	Natural Gas	2976.329163	43097.24627	0	17.80624767	17806.24767		74753.64709			
South Coast	2023	UBUS	Aggregate	Aggregate	Gasoline	894.3697717	3577.479087	0	14.17067148	14170.67148	204710.9133	96960.55907	694841.5831	3.39	UBUS
South Coast	2023	UBUS	Aggregate	Aggregate	Diesel	14.61165815	58.44663261	0	0.262644403	262.644403		1749.021883			
South Coast	2023	UBUS	Aggregate	Aggregate	Electricity	58.03212573	232.1285029	5326.224873	0	0		2539.586791			
South Coast	2023	UBUS	Aggregate	Aggregate	Natural Gas	4957.576963	19830.30785	0	190.2775974	190277.5974		593592.4153			

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2024	HHDT	Aggregate	Aggregate	Gasoline	64.44258918	1289.367324		0	1.014953313	1014.953313	2024777.341	4089.563798	12241163.02	6.05	HHDT
South Coast	2024	HHDT	Aggregate	Aggregate	Diesel	92441.35478	1412165.896		0	1913.394963	1913394.963		11547992.76			
South Coast	2024	HHDT	Aggregate	Aggregate	Electricity	291.6455699	3957.931048	53675.68637	0	0	0		29968.60823			
South Coast	2024	HHDT	Aggregate	Aggregate	Natural Gas	10239.41118	65591.6649		0	110.3674239	110367.4239		659112.0885			
South Coast	2024	LDA	Aggregate	Aggregate	Gasoline	5306414.643	24694249.92		0	7344.088111	7344088.111	7477826.02	213709568	234427100.1	31.35	LDA
South Coast	2024	LDA	Aggregate	Aggregate	Diesel	14576.24539	60769.87324		0	10.8801639	10880.1639		447477.6987			
South Coast	2024	LDA	Aggregate	Aggregate	Electricity	278128.8376	1389682.584		5111363.117	0	0		13239042.59			
South Coast	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	148523.7719	614145.7966	1077276.451	122.8577446	122857.7446			7031011.891			
South Coast	2024	LDT1	Aggregate	Aggregate	Gasoline	490973.66	2160511.155		0	732.0519082	732051.9082	732790.8073	17788975.08	17880208.77	24.40	LDT1
South Coast	2024	LDT1	Aggregate	Aggregate	Diesel	178.9755587	511.7069897		0	0.143610092	143.6100917		3350.970633			
South Coast	2024	LDT1	Aggregate	Aggregate	Electricity	1222.38175	5792.038269	19502.00434	0	0	0		50512.52673			
South Coast	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	719.1459798	2973.668627	6252.19918	0.595288961	595.288961			37370.18633			
South Coast	2024	LDT2	Aggregate	Aggregate	Gasoline	2478766.891	11657788.42		0	4349.789244	4349789.244	4378677.328	102696789.3	104694804	23.91	LDT2
South Coast	2024	LDT2	Aggregate	Aggregate	Diesel	8144.015434	39238.54602		0	11.30594953	11305.94953		354089.2658			
South Coast	2024	LDT2	Aggregate	Aggregate	Electricity	16093.72479	82313.84321	227422.9885	0	0	0		589052.7755			
South Coast	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	21096.29549	87233.18184	170348.4264	17.58213479	17582.13479			1054872.659			
South Coast	2024	LHDT1	Aggregate	Aggregate	Gasoline	200171.2476	2982253.334		0	578.7247685	578724.7685	792458.1109	7891021.12	12336952.39	15.57	LHDT1
South Coast	2024	LHDT1	Aggregate	Aggregate	Diesel	103884.7559	1306739.542		0	213.7333424	213733.3424		4387648.579			
South Coast	2024	LHDT1	Aggregate	Aggregate	Electricity	772.5188678	10791.59936	32624.15974	0	0	0		58282.68619			
South Coast	2024	LHDT2	Aggregate	Aggregate	Gasoline	31062.46526	462784.4493		0	96.72139231	96721.39231	208303.4828	1155378.828	3095264.249	14.86	LHDT2
South Coast	2024	LHDT2	Aggregate	Aggregate	Diesel	45926.82058	577701.627		0	111.5820905	111582.0905		1925592.444			
South Coast	2024	LHDT2	Aggregate	Aggregate	Electricity	199.9520404	2646.759351	8006.869611	0	0	0		14292.97674			
South Coast	2024	MCY	Aggregate	Aggregate	Gasoline	242059.9929	484119.9858		0	37.44895514	37448.95514	37448.95514	1554780.429	1554780.429	41.52	MCY
South Coast	2024	MDV	Aggregate	Aggregate	Gasoline	1571312.1	7270009.961		0	3162.700535	3162700.535	3206338.183	60817091.34	62832018.9	19.60	MDV
South Coast	2024	MDV	Aggregate	Aggregate	Diesel	19826.89781	93051.64962		0	33.54860069	33548.60069		786624.2122			
South Coast	2024	MDV	Aggregate	Aggregate	Electricity	17569.44798	89870.84023	248334.7848	0	0	0		643216.8322			
South Coast	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	12690.57185	52475.51459	92596.30611	10.08904803	10089.04803			585086.5214			
South Coast	2024	MH	Aggregate	Aggregate	Gasoline	29244.94397	2925.664195		0	57.51222476	57512.22476	68984.14797	279544.6577	395398.9997	5.73	MH
South Coast	2024	MH	Aggregate	Aggregate	Diesel	11703.55798	1170.355798		0	11.47192321	11471.92321		115854.342			
South Coast	2024	MHDT	Aggregate	Aggregate	Gasoline	24845.17438	497102.249		0	256.9342026	256934.2026	812250.5213	1326417.556	6295601.951	7.75	MHDT
South Coast	2024	MHDT	Aggregate	Aggregate	Diesel	114693.757	1409921.86		0	546.7152883	546715.2883		4878223.739			
South Coast	2024	MHDT	Aggregate	Aggregate	Electricity	355.3876422	4781.870526	20310.12518	0	0	0		19393.49808			
South Coast	2024	MHDT	Aggregate	Aggregate	Natural Gas	1491.278079	13281.28453		0	8.601030453	8601.030453		71567.15805			
South Coast	2024	OBUS	Aggregate	Aggregate	Gasoline	5296.379398	105969.959		0	41.44060197	41440.60197	78066.51924	209991.62	473651.4166	6.07	OBUS
South Coast	2024	OBUS	Aggregate	Aggregate	Diesel	2997.3176	37996.11149		0	33.30106375	33301.06375		233646.4445			
South Coast	2024	OBUS	Aggregate	Aggregate	Electricity	11.86106715	237.3162316	941.3362619	0	0	0		895.192351			
South Coast	2024	OBUS	Aggregate	Aggregate	Natural Gas	480.7769521	4278.914873		0	3.324853528	3324.853528		29118.15975			
South Coast	2024	SBUS	Aggregate	Aggregate	Gasoline	2763.091965	11052.36786		0	13.6568139	13656.8139	40972.05843	121721.653	266076.6289	6.49	SBUS
South Coast	2024	SBUS	Aggregate	Aggregate	Diesel	3283.370627	47543.20668		0	9.104107226	9104.107226		66807.29386			
South Coast	2024	SBUS	Aggregate	Aggregate	Electricity	21.89425828	248.8609268	740.8107178	0	0	0		640.6727128			
South Coast	2024	SBUS	Aggregate	Aggregate	Natural Gas	3093.465789	44793.38463		0	18.21113731	18211.13731		76907.00926			
South Coast	2024	UBUS	Aggregate	Aggregate	Gasoline	894.3284655	3577.313862		0	13.89822542	13898.22542	201736.9577	96953.45183	696232.1909	3.45	UBUS
South Coast	2024	UBUS	Aggregate	Aggregate	Diesel	14.32857314	57.31429256		0	0.259550733	259.5507326		1721.679298			
South Coast	2024	UBUS	Aggregate	Aggregate	Electricity	109.3235246	437.2940985	19519.17282	0	0	0		9364.629999			
South Coast	2024	UBUS	Aggregate	Aggregate	Natural Gas	4918.59249	19674.36996		0	187.5791815	187579.1815		588192.4297			

APPENDIX C

HRA DATA AND AERMOD MODEL PRINTOUTS

Emission Assumptions

DPM

Emissions

19391 Whittier Blvd BP

Facility Operations

Buildout year: **2024**

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

(1) EMFAC2021 - PM2.5 used as surrogate for DPM

(a) Annual Meteorology

Temperature: 50 degF

Relative Humidity: 50%

(b) Calculations for Los Angeles 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 Truck Source: **8.5** feet

(b) Truck Operational Schedule **24** hours/day

(c) Height of Truck: **13.5** feet

(d) Release Height: **3.5** meters

19391 Whittier Blvd BP		Emission:	DPM										
Processes Modeled		Build-out:	2024										
Onsite delivery traffic													
Truck idling													
Offsite delivery traffic													
Facilities in Operation													
Location	Truck type	Daily trucks											
Project Site	HHDT	144											
Project Site	MHDT	12											
Project Site	LHDT2	13											
Total		169											
Delivery Schedule:		24 hrs/day, 52 weeks/year											
Emission Factors 1 Year (2024)													
	Onsite Exhaust	Offsite Exhaust	Idle										
Vehicle Class	(g/mi)	(g/mi)	(g/hr)										
HHDT	0.01217	0.00826	0.01537										
MHDT	0.03833	0.00897	0.07273										
LHDT2	0.05435	0.02193	0.77769										
Onsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)		
Along south of building to Southern Project Driveway	HHDT	0.01217	144	220.9	0.14	2.40E-01	2.78E-06	1.91E+00	5.30E-04	9.66E-05			
Along south of building to Southern Project Driveway	MHDT	0.03833	12	220.9	0.14	6.31E-02	7.30E-07	5.00E-01	1.39E-04	2.54E-05	4.64E-06	100% of trucks	
Along south of building to Southern Project Driveway	LHDT2	0.05435	13	220.9	0.14	9.70E-02	1.12E-06	7.69E-01	2.14E-04	3.90E-05			
Truck Idling													
	Idle time	15 minutes											
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)			
At loading docks & entrance/exit driveway	HHDT	0.01537	15	144	0.55	6.41E-06	5.08E-05	1.22E-03	2.22E-04				
At loading docks & entrance/exit driveway	MHDT	0.07273	15	12	0.22	2.53E-06	2.00E-05	4.81E-04	8.77E-05		3.82E-05		
At loading docks & entrance/exit driveway	LHDT2	0.77769	15	13	2.53	2.93E-05	2.32E-04	5.57E-03	1.02E-03		7.64E-06	per idling location (5 total)	
Offsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)			
From project driveway s/b along Whittier Frontage Road	HHDT	0.00826	144	263.8	0.16	1.95E-01	2.26E-06	1.55E+00	4.29E-04	7.84E-05	100% of trucks		
From project driveway s/b along Whittier Frontage Road	MHDT	0.00897	12	263.8	0.16	1.76E-02	2.04E-07	1.40E-01	3.88E-05	7.09E-06	3.00E-06		
From project driveway s/b along Whittier Frontage Road	LHDT2	0.02193	13	263.8	0.16	4.67E-02	5.41E-07	3.70E-01	1.03E-04	1.88E-05			
South on Whittier Blvd to Washington Blvd	HHDT	0.00826	144	940.8	0.58	6.95E-01	8.05E-06	5.51E+00	1.53E-03	2.79E-04	50% of trucks		
South on Whittier Blvd to Washington Blvd	MHDT	0.00897	12	940.8	0.58	6.29E-02	7.28E-07	4.99E-01	1.39E-04	2.53E-05	5.35E-06		
South on Whittier Blvd to Washington Blvd	LHDT2	0.02193	13	940.8	0.58	1.67E-01	1.93E-06	1.32E+00	3.67E-04	6.70E-05			
Northbound along Whittier Blvd	HHDT	0.00826	144	1076.5	0.67	7.96E-01	9.21E-06	6.31E+00	1.75E-03	3.20E-04	50% of trucks		
Northbound along Whittier Blvd	MHDT	0.00897	12	1076.5	0.67	7.20E-02	8.33E-07	5.71E-01	1.58E-04	2.89E-05	6.12E-06		
Northbound along Whittier Blvd	LHDT2	0.02193	13	1076.5	0.67	1.91E-01	2.21E-06	1.51E+00	4.20E-04	7.66E-05			

19391 Whittier Blvd BP		Emission:	DPM											
Processes Modeled		Build-out:	2024											
Onsite delivery traffic														
Truck idling														
Offsite delivery traffic														
Facilities in Operation														
Location	Truck type	Daily trucks												
Project Site	HHDT	144												
Project Site	MHDT	12												
Project Site	LHDT2	13												
Total		169												
Delivery Schedule:		24 hrs/day, 52weeks/year												
Emission Factors 2 Year (2025&2026)														
	Onsite Exhaust	Offsite Exhaust	Idle											
Vehicle Class	(g/mi)	(g/mi)	(g/hr)											
HHDT	0.01163	0.00785	0.01428											
MHDT	0.02941	0.00714	0.05503											
LHDT2	0.04865	0.02001	0.77753											
Onsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)			
Along south of building to Southern Project Driveway	HHDT	0.01163	144	220.9	0.14	2.30E-01	2.66E-06	1.82E+00	5.06E-04	9.23E-05				
Along south of building to Southern Project Driveway	MHDT	0.02941	12	220.9	0.14	4.84E-02	5.61E-07	3.84E-01	1.07E-04	1.95E-05	4.22E-06	100%	of trucks	
Along south of building to Southern Project Driveway	LHDT2	0.04865	13	220.9	0.14	8.68E-02	1.00E-06	6.88E-01	1.91E-04	3.49E-05				
Truck Idling														
	Idle time	15 minutes												
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)				
At loading docks & entrance/exit driveway	HHDT	0.01428	15	144	0.51	5.95E-06	4.72E-05	1.13E-03	2.07E-04					
At loading docks & entrance/exit driveway	MHDT	0.05503	15	12	0.17	1.91E-06	1.52E-05	3.64E-04	6.64E-05		3.71E-05			
At loading docks & entrance/exit driveway	LHDT2	0.77753	15	13	2.53	2.92E-05	2.32E-04	5.57E-03	1.02E-03		7.42E-06	per idling location	(5 total)	
Offsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)				
From project driveway s/b along Whittier Frontage Road	HHDT	0.00785	144	263.8	0.16	1.85E-01	2.14E-06	1.47E+00	4.08E-04	7.44E-05	100%	of trucks		
From project driveway s/b along Whittier Frontage Road	MHDT	0.00714	12	263.8	0.16	1.40E-02	1.63E-07	1.11E-01	3.09E-05	5.65E-06	2.80E-06			
From project driveway s/b along Whittier Frontage Road	LHDT2	0.02001	13	263.8	0.16	4.26E-02	4.93E-07	3.38E-01	9.39E-05	1.71E-05				
South on Whittier Blvd to Washington Blvd	HHDT	0.00785	144	940.8	0.58	6.60E-01	7.64E-06	5.24E+00	1.45E-03	2.65E-04	50%	of trucks		
South on Whittier Blvd to Washington Blvd	MHDT	0.00714	12	940.8	0.58	5.01E-02	5.80E-07	3.97E-01	1.10E-04	2.01E-05	4.99E-06			
South on Whittier Blvd to Washington Blvd	LHDT2	0.02001	13	940.8	0.58	1.52E-01	1.76E-06	1.21E+00	3.35E-04	6.11E-05				
Northbound along Whittier Blvd	HHDT	0.00785	144	1076.5	0.67	7.56E-01	8.75E-06	5.99E+00	1.66E-03	3.04E-04	50%	of trucks		
Northbound along Whittier Blvd	MHDT	0.00714	12	1076.5	0.67	5.73E-02	6.63E-07	4.54E-01	1.26E-04	2.30E-05	5.71E-06			
Northbound along Whittier Blvd	LHDT2	0.02001	13	1076.5	0.67	1.74E-01	2.01E-06	1.38E+00	3.83E-04	6.99E-05				

19391 Whittier Blvd BP		Emission:	DPM											
Processes Modeled		Build-out:	2024											
Onsite delivery traffic														
Truck idling														
Offsite delivery traffic														
Facilities in Operation														
Location	Truck type	Daily trucks												
Project Site	HHDT	144												
Project Site	MHDT	12												
Project Site	LHDT2	13												
Total		169												
Delivery Schedule:														
		24 hrs/day, 52weeks/year												
Emission Factors 14 Year 2027-2040		Onsite	Offsite											
		Exhaust	Exhaust	Idle										
Vehicle Class		(g/mi)	(g/mi)	(g/hr)										
HHDT		0.00948	0.00644	0.01107										
MHDT		0.00993	0.00305	0.01857										
LHDT2		0.03871	0.01716	0.76775										
Onsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)			
Along south of building to Southern Project Driveway	HHDT	0.00948	144	220.9	0.14	1.87E-01	2.17E-06	1.49E+00	4.13E-04	7.53E-05				
Along south of building to Southern Project Driveway	MHDT	0.00993	12	220.9	0.14	1.64E-02	1.89E-07	1.30E-01	3.60E-05	6.57E-06	3.16E-06	100%	of trucks	
Along south of building to Southern Project Driveway	LHDT2	0.03871	13	220.9	0.14	6.90E-02	7.99E-07	5.48E-01	1.52E-04	2.78E-05				
Truck Idling		Idle time	15 minutes											
Building/Location	Truck Type	Emission Factor (g/Idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)				
At loading docks & entrance/exit driveway	HHDT	0.01107	15	144	0.40	4.61E-06	3.66E-05	8.78E-04	1.60E-04					
At loading docks & entrance/exit driveway	MHDT	0.01857	15	12	0.06	6.45E-07	5.11E-06	1.23E-04	2.24E-05		3.41E-05			
At loading docks & entrance/exit driveway	LHDT2	0.76775	15	13	2.50	2.89E-05	2.29E-04	5.50E-03	1.00E-03		6.83E-06	per idling location	(5 total)	
Offsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)				
From project driveway s/b along Whittier Frontage Road	HHDT	0.00644	144	263.8	0.16	1.52E-01	1.76E-06	1.21E+00	3.35E-04	6.11E-05	100%	of trucks		
From project driveway s/b along Whittier Frontage Road	MHDT	0.00305	12	263.8	0.16	6.01E-03	6.95E-08	4.76E-02	1.32E-05	2.41E-06	2.25E-06			
From project driveway s/b along Whittier Frontage Road	LHDT2	0.01716	13	263.8	0.16	3.66E-02	4.23E-07	2.90E-01	8.05E-05	1.47E-05				
South on Whittier Blvd to Washington Blvd	HHDT	0.00644	144	940.8	0.58	5.42E-01	6.27E-06	4.30E+00	1.19E-03	2.18E-04	50%	of trucks		
South on Whittier Blvd to Washington Blvd	MHDT	0.00305	12	940.8	0.58	2.14E-02	2.48E-07	1.70E-01	4.72E-05	8.61E-06	4.02E-06			
South on Whittier Blvd to Washington Blvd	LHDT2	0.01716	13	940.8	0.58	1.30E-01	1.51E-06	1.03E+00	2.87E-04	5.24E-05				
Northbound along Whittier Blvd	HHDT	0.00644	144	1076.5	0.67	6.20E-01	7.18E-06	4.92E+00	1.37E-03	2.49E-04	50%	of trucks		
Northbound along Whittier Blvd	MHDT	0.00305	12	1076.5	0.67	2.45E-02	2.84E-07	1.94E-01	5.40E-05	9.85E-06	4.59E-06			
Northbound along Whittier Blvd	LHDT2	0.01716	13	1076.5	0.67	1.49E-01	1.73E-06	1.18E+00	3.29E-04	6.00E-05				

19391 Whittier Blvd BP		Emission:	DPM											
Processes Modeled		Build-out:	2024											
Onsite delivery traffic														
Truck idling														
Offsite delivery traffic														
Facilities in Operation														
Location	Truck type	Daily trucks												
Project Site	HHDT	144												
Project Site	MHDT	12												
Project Site	LHDT2	13												
Total		169												
Delivery Schedule:		24 hrs/day, 52weeks/year												
Emission Factors 14 Year 2041-2054		Onsite	Offsite											
		Exhaust	Exhaust	Idle										
Vehicle Class		(g/mi)	(g/mi)	(g/hr)										
HHDT		0.00818	0.00564	0.00973										
MHDT		0.00320	0.00151	0.00731										
LHDT2		0.03537	0.01654	0.76173										
Onsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)			
Along south of building to Southern Project Driveway	HHDT	0.00818	144	220.9	0.14	1.62E-01	1.87E-06	1.28E+00	3.56E-04	6.50E-05				
Along south of building to Southern Project Driveway	MHDT	0.00320	12	220.9	0.14	5.27E-03	6.10E-08	4.18E-02	1.16E-05	2.12E-06	2.66E-06	100%	of trucks	
Along south of building to Southern Project Driveway	LHDT2	0.03537	13	220.9	0.14	6.31E-02	7.30E-07	5.00E-01	1.39E-04	2.54E-05				
Truck Idling		Idle time	15 minutes											
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)				
At loading docks & entrance/exit driveway	HHDT	0.00973	15	144	0.35	4.05E-06	3.21E-05	7.72E-04	1.41E-04					
At loading docks & entrance/exit driveway	MHDT	0.00731	15	12	0.02	2.54E-07	2.01E-06	4.83E-05	8.81E-06	3.30E-05				
At loading docks & entrance/exit driveway	LHDT2	0.76173	15	13	2.48	2.87E-05	2.27E-04	5.45E-03	9.95E-04	6.59E-06			per idling location (5 total)	
Offsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)				
From project driveway s/b along Whittier Frontage Road	HHDT	0.00564	144	263.8	0.16	1.33E-01	1.54E-06	1.05E+00	2.93E-04	5.35E-05	100%	of trucks		
From project driveway s/b along Whittier Frontage Road	MHDT	0.00151	12	263.8	0.16	2.98E-03	3.45E-08	2.36E-02	6.56E-06	1.20E-06	1.98E-06			
From project driveway s/b along Whittier Frontage Road	LHDT2	0.01654	13	263.8	0.16	3.52E-02	4.08E-07	2.79E-01	7.76E-05	1.42E-05				
South on Whittier Blvd to Washington Blvd	HHDT	0.00564	144	940.8	0.58	4.74E-01	5.49E-06	3.76E+00	1.05E-03	1.91E-04	50%	of trucks		
South on Whittier Blvd to Washington Blvd	MHDT	0.00151	12	940.8	0.58	1.06E-02	1.23E-07	8.42E-02	2.34E-05	4.27E-06	1.41E-07			
South on Whittier Blvd to Washington Blvd	LHDT2	0.01654	13	940.8	0.58	1.26E-01	1.45E-06	9.97E-01	2.77E-04	5.05E-05				
Northbound along Whittier Blvd	HHDT	0.00564	144	1076.5	0.67	5.43E-01	6.28E-06	4.31E+00	1.20E-03	2.18E-04	50%	of trucks		
Northbound along Whittier Blvd	MHDT	0.00151	12	1076.5	0.67	1.21E-02	1.41E-07	9.63E-02	2.68E-05	4.88E-06	4.04E-06			
Northbound along Whittier Blvd	LHDT2	0.01654	13	1076.5	0.67	1.44E-01	1.66E-06	1.14E+00	3.17E-04	5.78E-05				

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** Lakes Environmental AERMOD MPI
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*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 6/26/2023
** File: C:\Lakes\AERMOD View\19391 Whittier Blvd BP OY 2024\19391 Whittier Blvd BP OY 2024.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE 19391 Whittier Blvd BP
  TITLETWO DPM Concentrations OY 2024
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 9818605 Los_Angeles_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "19391 Whittier Blvd BP OY 2024.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION STCK1      POINT      403193.640  3759565.730      66.820
** DESCRSRC Truck idling Location
LOCATION STCK2      POINT      403256.045  3759598.705      67.440
** DESCRSRC Truck idling Location
LOCATION STCK3      POINT      403214.561  3759575.303      66.930
** DESCRSRC Truck idling Location
LOCATION STCK4      POINT      403285.474  3759616.787      67.600
** DESCRSRC Truck idling Location
LOCATION STCK5      POINT      403325.895  3759622.106      67.810
** DESCRSRC Truck idling Location
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel

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** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.64E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403377.081, 3759656.927, 68.97, 3.50, 4.00
** 403368.321, 3759649.002, 68.27, 3.50, 4.00
** 403361.646, 3759641.493, 68.07, 3.50, 4.00
** 403353.721, 3759633.985, 68.07, 3.50, 4.00
** 403323.270, 3759617.299, 67.71, 3.50, 4.00
** 403189.785, 3759541.797, 65.87, 3.50, 4.00
** -----
LOCATION L0000467      VOLUME  403373.895 3759654.046 68.80
LOCATION L0000468      VOLUME  403367.608 3759648.200 68.24
LOCATION L0000469      VOLUME  403361.900 3759641.779 68.19
LOCATION L0000470      VOLUME  403355.687 3759635.848 68.25
LOCATION L0000471      VOLUME  403348.563 3759631.158 68.15
LOCATION L0000472      VOLUME  403341.029 3759627.030 68.08
LOCATION L0000473      VOLUME  403333.495 3759622.902 67.96
LOCATION L0000474      VOLUME  403325.961 3759618.774 67.80
LOCATION L0000475      VOLUME  403318.463 3759614.581 67.70
LOCATION L0000476      VOLUME  403310.986 3759610.351 67.69
LOCATION L0000477      VOLUME  403303.508 3759606.122 67.65
LOCATION L0000478      VOLUME  403296.031 3759601.892 67.57
LOCATION L0000479      VOLUME  403288.553 3759597.663 67.52
LOCATION L0000480      VOLUME  403281.076 3759593.433 67.47
LOCATION L0000481      VOLUME  403273.598 3759589.204 67.42
LOCATION L0000482      VOLUME  403266.120 3759584.974 67.36
LOCATION L0000483      VOLUME  403258.643 3759580.745 67.21
LOCATION L0000484      VOLUME  403251.165 3759576.515 67.10
LOCATION L0000485      VOLUME  403243.688 3759572.286 67.02
LOCATION L0000486      VOLUME  403236.210 3759568.056 66.91
LOCATION L0000487      VOLUME  403228.733 3759563.827 66.83
LOCATION L0000488      VOLUME  403221.255 3759559.597 66.77
LOCATION L0000489      VOLUME  403213.778 3759555.368 66.73
LOCATION L0000490      VOLUME  403206.300 3759551.138 66.47
LOCATION L0000491      VOLUME  403198.823 3759546.909 66.17
LOCATION L0000492      VOLUME  403191.345 3759542.679 65.89
** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.0E-06
** Elevated

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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** -----
LOCATION L0000493    VOLUME  403385.280 3759659.813 70.03
LOCATION L0000494    VOLUME  403389.548 3759652.357 69.98
LOCATION L0000495    VOLUME  403393.816 3759644.901 70.08
LOCATION L0000496    VOLUME  403398.083 3759637.446 70.40
LOCATION L0000497    VOLUME  403402.351 3759629.990 70.43
LOCATION L0000498    VOLUME  403406.619 3759622.534 70.34
LOCATION L0000499    VOLUME  403410.886 3759615.078 70.21
LOCATION L0000500    VOLUME  403415.154 3759607.622 70.06
LOCATION L0000501    VOLUME  403419.422 3759600.167 69.93
LOCATION L0000502    VOLUME  403423.689 3759592.711 69.84
LOCATION L0000503    VOLUME  403427.957 3759585.255 69.78
LOCATION L0000504    VOLUME  403432.225 3759577.799 69.72
LOCATION L0000505    VOLUME  403436.492 3759570.343 69.64
LOCATION L0000506    VOLUME  403440.760 3759562.888 69.55
LOCATION L0000507    VOLUME  403445.028 3759555.432 69.44
LOCATION L0000508    VOLUME  403449.295 3759547.976 69.28
LOCATION L0000509    VOLUME  403453.563 3759540.520 69.16
LOCATION L0000510    VOLUME  403457.831 3759533.065 69.03
LOCATION L0000511    VOLUME  403462.098 3759525.609 68.88
LOCATION L0000512    VOLUME  403466.366 3759518.153 68.78
LOCATION L0000513    VOLUME  403470.634 3759510.697 68.77
LOCATION L0000514    VOLUME  403474.901 3759503.241 68.75
LOCATION L0000515    VOLUME  403479.169 3759495.786 68.72
LOCATION L0000516    VOLUME  403483.437 3759488.330 68.63
LOCATION L0000517    VOLUME  403487.705 3759480.874 68.52
LOCATION L0000518    VOLUME  403491.972 3759473.418 68.41
LOCATION L0000519    VOLUME  403496.240 3759465.962 68.30
LOCATION L0000520    VOLUME  403500.508 3759458.507 68.20
LOCATION L0000521    VOLUME  403504.775 3759451.051 68.09
LOCATION L0000522    VOLUME  403510.793 3759446.613 68.07
LOCATION L0000523    VOLUME  403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 5.35E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63

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** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00

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LOCATION L0000524      VOLUME  403528.969 3759452.019 68.52
LOCATION L0000525      VOLUME  403533.259 3759444.576 68.43
LOCATION L0000526      VOLUME  403537.549 3759437.134 68.33
LOCATION L0000527      VOLUME  403541.839 3759429.691 68.23
LOCATION L0000528      VOLUME  403546.129 3759422.248 68.12
LOCATION L0000529      VOLUME  403550.419 3759414.805 68.02
LOCATION L0000530      VOLUME  403554.709 3759407.362 67.93
LOCATION L0000531      VOLUME  403558.999 3759399.919 67.88
LOCATION L0000532      VOLUME  403563.318 3759392.492 67.86
LOCATION L0000533      VOLUME  403567.673 3759385.088 67.79
LOCATION L0000534      VOLUME  403572.029 3759377.683 67.69
LOCATION L0000535      VOLUME  403576.385 3759370.278 67.54
LOCATION L0000536      VOLUME  403580.740 3759362.873 67.43
LOCATION L0000537      VOLUME  403585.096 3759355.469 67.29
LOCATION L0000538      VOLUME  403589.452 3759348.064 67.11
LOCATION L0000539      VOLUME  403593.834 3759340.675 66.91
LOCATION L0000540      VOLUME  403598.226 3759333.291 66.71
LOCATION L0000541      VOLUME  403602.617 3759325.908 66.55
LOCATION L0000542      VOLUME  403607.009 3759318.525 66.41
LOCATION L0000543      VOLUME  403611.401 3759311.141 66.32
LOCATION L0000544      VOLUME  403615.793 3759303.758 66.26
LOCATION L0000545      VOLUME  403620.161 3759296.361 66.20
LOCATION L0000546      VOLUME  403624.410 3759288.895 66.08
LOCATION L0000547      VOLUME  403628.660 3759281.429 65.92
LOCATION L0000548      VOLUME  403632.910 3759273.963 65.87
LOCATION L0000549      VOLUME  403637.160 3759266.497 65.80
LOCATION L0000550      VOLUME  403641.410 3759259.031 65.70
LOCATION L0000551      VOLUME  403645.660 3759251.565 65.55
LOCATION L0000552      VOLUME  403649.909 3759244.099 65.38
LOCATION L0000553      VOLUME  403654.159 3759236.633 65.20
LOCATION L0000554      VOLUME  403658.409 3759229.167 65.08
LOCATION L0000555      VOLUME  403662.659 3759221.701 65.03
LOCATION L0000556      VOLUME  403666.955 3759214.262 65.06
LOCATION L0000557      VOLUME  403671.375 3759206.896 65.18
LOCATION L0000558      VOLUME  403675.795 3759199.529 65.30

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LOCATION	L0000559	VOLUME	403680.215	3759192.163	65.28
LOCATION	L0000560	VOLUME	403684.635	3759184.796	65.20
LOCATION	L0000561	VOLUME	403689.079	3759177.444	65.11
LOCATION	L0000562	VOLUME	403693.552	3759170.109	65.01
LOCATION	L0000563	VOLUME	403697.816	3759162.676	64.98
LOCATION	L0000564	VOLUME	403700.416	3759154.521	64.94
LOCATION	L0000565	VOLUME	403700.306	3759146.054	64.83
LOCATION	L0000566	VOLUME	403696.345	3759138.468	64.60
LOCATION	L0000567	VOLUME	403689.548	3759133.215	64.32
LOCATION	L0000568	VOLUME	403681.516	3759131.396	64.05
LOCATION	L0000569	VOLUME	403672.929	3759131.119	63.79
LOCATION	L0000570	VOLUME	403664.343	3759130.842	63.54
LOCATION	L0000571	VOLUME	403655.780	3759130.201	63.27
LOCATION	L0000572	VOLUME	403647.228	3759129.386	62.98
LOCATION	L0000573	VOLUME	403638.676	3759128.572	62.66
LOCATION	L0000574	VOLUME	403630.194	3759127.265	62.32
LOCATION	L0000575	VOLUME	403621.759	3759125.636	61.99
LOCATION	L0000576	VOLUME	403613.325	3759124.006	61.67
LOCATION	L0000577	VOLUME	403604.890	3759122.377	61.37
LOCATION	L0000578	VOLUME	403596.455	3759120.748	61.06
LOCATION	L0000579	VOLUME	403588.020	3759119.119	60.80
LOCATION	L0000580	VOLUME	403579.585	3759117.489	60.59
LOCATION	L0000581	VOLUME	403571.150	3759115.860	60.42
LOCATION	L0000582	VOLUME	403562.715	3759114.231	60.30
LOCATION	L0000583	VOLUME	403554.280	3759112.602	60.14
LOCATION	L0000584	VOLUME	403545.845	3759110.973	59.97
LOCATION	L0000585	VOLUME	403537.411	3759109.343	59.86
LOCATION	L0000586	VOLUME	403528.976	3759107.714	59.74
LOCATION	L0000587	VOLUME	403520.541	3759106.085	59.62
LOCATION	L0000588	VOLUME	403512.106	3759104.456	59.52
LOCATION	L0000589	VOLUME	403503.671	3759102.826	59.41
LOCATION	L0000590	VOLUME	403495.236	3759101.197	59.29
LOCATION	L0000591	VOLUME	403486.801	3759099.568	59.11
LOCATION	L0000592	VOLUME	403478.366	3759097.939	58.94
LOCATION	L0000593	VOLUME	403469.931	3759096.310	58.75
LOCATION	L0000594	VOLUME	403461.496	3759094.680	58.50
LOCATION	L0000595	VOLUME	403453.062	3759093.051	58.26
LOCATION	L0000596	VOLUME	403444.627	3759091.422	58.02
LOCATION	L0000597	VOLUME	403436.192	3759089.793	57.76
LOCATION	L0000598	VOLUME	403427.757	3759088.163	57.55
LOCATION	L0000599	VOLUME	403419.322	3759086.534	57.37
LOCATION	L0000600	VOLUME	403410.887	3759084.905	57.32
LOCATION	L0000601	VOLUME	403402.452	3759083.276	57.24
LOCATION	L0000602	VOLUME	403394.017	3759081.647	57.13
LOCATION	L0000603	VOLUME	403385.582	3759080.017	57.09
LOCATION	L0000604	VOLUME	403377.147	3759078.388	57.03
LOCATION	L0000605	VOLUME	403368.713	3759076.759	56.95
LOCATION	L0000606	VOLUME	403360.278	3759075.130	56.89
LOCATION	L0000607	VOLUME	403351.843	3759073.500	56.84
LOCATION	L0000608	VOLUME	403343.408	3759071.871	56.78
LOCATION	L0000609	VOLUME	403334.973	3759070.242	56.72

LOCATION	L0000610	VOLUME	403326.538	3759068.613	56.65
LOCATION	L0000611	VOLUME	403318.103	3759066.984	56.57
LOCATION	L0000612	VOLUME	403309.668	3759065.354	56.37
LOCATION	L0000613	VOLUME	403301.233	3759063.725	56.17
LOCATION	L0000614	VOLUME	403292.799	3759062.096	55.97
LOCATION	L0000615	VOLUME	403284.364	3759060.467	55.70
LOCATION	L0000616	VOLUME	403275.929	3759058.837	55.41
LOCATION	L0000617	VOLUME	403267.494	3759057.208	55.13
LOCATION	L0000618	VOLUME	403259.059	3759055.579	54.93
LOCATION	L0000619	VOLUME	403250.624	3759053.950	54.75
LOCATION	L0000620	VOLUME	403242.189	3759052.321	54.55
LOCATION	L0000621	VOLUME	403233.754	3759050.691	54.50
LOCATION	L0000622	VOLUME	403225.319	3759049.062	54.47
LOCATION	L0000623	VOLUME	403216.884	3759047.433	54.40
LOCATION	L0000624	VOLUME	403208.450	3759045.804	54.23
LOCATION	L0000625	VOLUME	403200.015	3759044.174	54.01
LOCATION	L0000626	VOLUME	403191.580	3759042.545	53.80
LOCATION	L0000627	VOLUME	403183.145	3759040.916	53.54
LOCATION	L0000628	VOLUME	403174.710	3759039.287	53.26
LOCATION	L0000629	VOLUME	403166.275	3759037.658	53.01
LOCATION	L0000630	VOLUME	403157.840	3759036.028	52.81
LOCATION	L0000631	VOLUME	403149.405	3759034.399	52.62
LOCATION	L0000632	VOLUME	403140.970	3759032.770	52.43
LOCATION	L0000633	VOLUME	403132.535	3759031.141	52.25

** End of LINE VOLUME Source ID = SLINE3

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE4

** DESCRSRC Northbound along Whitter Blvd

** PREFIX

** Length of Side = 10.11

** Configuration = Adjacent

** Emission Rate = 6.12E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 7

** 403541.907, 3759460.234, 69.09, 3.50, 4.70

** 403548.291, 3759465.199, 69.37, 3.50, 4.70

** 403540.134, 3759487.187, 69.75, 3.50, 4.70

** 403492.611, 3759570.175, 70.72, 3.50, 4.70

** 403452.890, 3759640.041, 71.88, 3.50, 4.70

** 403398.984, 3759724.801, 72.44, 3.50, 4.70

** 403007.874, 3760386.371, 71.03, 3.50, 4.70

** -----

LOCATION	L0000634	VOLUME	403545.899	3759463.339	69.32
LOCATION	L0000635	VOLUME	403545.826	3759471.842	69.48
LOCATION	L0000636	VOLUME	403542.308	3759481.325	69.66
LOCATION	L0000637	VOLUME	403538.215	3759490.539	69.93
LOCATION	L0000638	VOLUME	403533.188	3759499.317	70.12
LOCATION	L0000639	VOLUME	403528.162	3759508.094	70.18

LOCATION	L0000640	VOLUME	403523.135	3759516.871	70.13
LOCATION	L0000641	VOLUME	403518.109	3759525.649	70.26
LOCATION	L0000642	VOLUME	403513.082	3759534.426	70.53
LOCATION	L0000643	VOLUME	403508.056	3759543.204	70.83
LOCATION	L0000644	VOLUME	403503.030	3759551.981	71.13
LOCATION	L0000645	VOLUME	403498.003	3759560.759	71.07
LOCATION	L0000646	VOLUME	403492.977	3759569.536	71.01
LOCATION	L0000647	VOLUME	403487.976	3759578.328	70.99
LOCATION	L0000648	VOLUME	403482.977	3759587.121	71.05
LOCATION	L0000649	VOLUME	403477.977	3759595.914	71.14
LOCATION	L0000650	VOLUME	403472.978	3759604.708	71.24
LOCATION	L0000651	VOLUME	403467.979	3759613.501	71.43
LOCATION	L0000652	VOLUME	403462.980	3759622.294	71.63
LOCATION	L0000653	VOLUME	403457.981	3759631.087	71.77
LOCATION	L0000654	VOLUME	403452.982	3759639.880	71.85
LOCATION	L0000655	VOLUME	403447.562	3759648.419	71.87
LOCATION	L0000656	VOLUME	403442.134	3759656.954	71.94
LOCATION	L0000657	VOLUME	403436.705	3759665.489	72.05
LOCATION	L0000658	VOLUME	403431.277	3759674.024	72.20
LOCATION	L0000659	VOLUME	403425.849	3759682.559	72.31
LOCATION	L0000660	VOLUME	403420.421	3759691.094	72.30
LOCATION	L0000661	VOLUME	403414.993	3759699.629	72.34
LOCATION	L0000662	VOLUME	403409.565	3759708.164	72.42
LOCATION	L0000663	VOLUME	403404.137	3759716.699	72.47
LOCATION	L0000664	VOLUME	403398.723	3759725.243	72.48
LOCATION	L0000665	VOLUME	403393.576	3759733.950	72.47
LOCATION	L0000666	VOLUME	403388.428	3759742.657	72.44
LOCATION	L0000667	VOLUME	403383.281	3759751.364	72.37
LOCATION	L0000668	VOLUME	403378.133	3759760.071	72.29
LOCATION	L0000669	VOLUME	403372.986	3759768.778	72.20
LOCATION	L0000670	VOLUME	403367.838	3759777.485	72.12
LOCATION	L0000671	VOLUME	403362.691	3759786.192	72.06
LOCATION	L0000672	VOLUME	403357.543	3759794.899	72.03
LOCATION	L0000673	VOLUME	403352.396	3759803.606	72.02
LOCATION	L0000674	VOLUME	403347.248	3759812.313	71.99
LOCATION	L0000675	VOLUME	403342.101	3759821.020	71.94
LOCATION	L0000676	VOLUME	403336.953	3759829.727	71.89
LOCATION	L0000677	VOLUME	403331.806	3759838.434	71.81
LOCATION	L0000678	VOLUME	403326.658	3759847.141	71.78
LOCATION	L0000679	VOLUME	403321.511	3759855.848	71.74
LOCATION	L0000680	VOLUME	403316.364	3759864.555	71.66
LOCATION	L0000681	VOLUME	403311.216	3759873.262	71.53
LOCATION	L0000682	VOLUME	403306.069	3759881.969	71.43
LOCATION	L0000683	VOLUME	403300.921	3759890.677	71.36
LOCATION	L0000684	VOLUME	403295.774	3759899.384	71.35
LOCATION	L0000685	VOLUME	403290.626	3759908.091	71.32
LOCATION	L0000686	VOLUME	403285.479	3759916.798	71.27
LOCATION	L0000687	VOLUME	403280.331	3759925.505	71.20
LOCATION	L0000688	VOLUME	403275.184	3759934.212	71.19
LOCATION	L0000689	VOLUME	403270.036	3759942.919	71.22
LOCATION	L0000690	VOLUME	403264.889	3759951.626	71.20

LOCATION	L0000691	VOLUME	403259.741	3759960.333	71.10
LOCATION	L0000692	VOLUME	403254.594	3759969.040	71.01
LOCATION	L0000693	VOLUME	403249.446	3759977.747	70.98
LOCATION	L0000694	VOLUME	403244.299	3759986.454	70.96
LOCATION	L0000695	VOLUME	403239.151	3759995.161	70.92
LOCATION	L0000696	VOLUME	403234.004	3760003.868	70.88
LOCATION	L0000697	VOLUME	403228.856	3760012.575	70.84
LOCATION	L0000698	VOLUME	403223.709	3760021.282	70.80
LOCATION	L0000699	VOLUME	403218.561	3760029.989	70.75
LOCATION	L0000700	VOLUME	403213.414	3760038.696	70.67
LOCATION	L0000701	VOLUME	403208.267	3760047.403	70.56
LOCATION	L0000702	VOLUME	403203.119	3760056.110	70.47
LOCATION	L0000703	VOLUME	403197.972	3760064.817	70.46
LOCATION	L0000704	VOLUME	403192.824	3760073.525	70.49
LOCATION	L0000705	VOLUME	403187.677	3760082.232	70.47
LOCATION	L0000706	VOLUME	403182.529	3760090.939	70.45
LOCATION	L0000707	VOLUME	403177.382	3760099.646	70.42
LOCATION	L0000708	VOLUME	403172.234	3760108.353	70.40
LOCATION	L0000709	VOLUME	403167.087	3760117.060	70.47
LOCATION	L0000710	VOLUME	403161.939	3760125.767	70.47
LOCATION	L0000711	VOLUME	403156.792	3760134.474	70.40
LOCATION	L0000712	VOLUME	403151.644	3760143.181	70.29
LOCATION	L0000713	VOLUME	403146.497	3760151.888	70.32
LOCATION	L0000714	VOLUME	403141.349	3760160.595	70.34
LOCATION	L0000715	VOLUME	403136.202	3760169.302	70.30
LOCATION	L0000716	VOLUME	403131.054	3760178.009	70.19
LOCATION	L0000717	VOLUME	403125.907	3760186.716	70.07
LOCATION	L0000718	VOLUME	403120.759	3760195.423	69.98
LOCATION	L0000719	VOLUME	403115.612	3760204.130	69.95
LOCATION	L0000720	VOLUME	403110.464	3760212.837	70.08
LOCATION	L0000721	VOLUME	403105.317	3760221.544	70.15
LOCATION	L0000722	VOLUME	403100.170	3760230.251	70.18
LOCATION	L0000723	VOLUME	403095.022	3760238.958	70.24
LOCATION	L0000724	VOLUME	403089.875	3760247.665	70.34
LOCATION	L0000725	VOLUME	403084.727	3760256.373	70.40
LOCATION	L0000726	VOLUME	403079.580	3760265.080	70.43
LOCATION	L0000727	VOLUME	403074.432	3760273.787	70.55
LOCATION	L0000728	VOLUME	403069.285	3760282.494	70.74
LOCATION	L0000729	VOLUME	403064.137	3760291.201	70.91
LOCATION	L0000730	VOLUME	403058.990	3760299.908	71.04
LOCATION	L0000731	VOLUME	403053.842	3760308.615	71.16
LOCATION	L0000732	VOLUME	403048.695	3760317.322	71.30
LOCATION	L0000733	VOLUME	403043.547	3760326.029	71.36
LOCATION	L0000734	VOLUME	403038.400	3760334.736	71.25
LOCATION	L0000735	VOLUME	403033.252	3760343.443	71.12
LOCATION	L0000736	VOLUME	403028.105	3760352.150	70.98
LOCATION	L0000737	VOLUME	403022.957	3760360.857	70.90
LOCATION	L0000738	VOLUME	403017.810	3760369.564	71.03
LOCATION	L0000739	VOLUME	403012.662	3760378.271	71.07

** End of LINE VOLUME Source ID = SLINE4

** Source Parameters **

SRCPARAM STCK1	7.64E-06	3.500	366.000	51.9	0.1
SRCPARAM STCK2	7.64E-06	3.500	366.000	51.9	0.1
SRCPARAM STCK3	7.64E-06	3.500	366.000	51.9	0.1
SRCPARAM STCK4	7.64E-06	3.500	366.000	51.9	0.1
SRCPARAM STCK5	7.64E-06	3.500	366.000	51.9	0.1
** LINE VOLUME Source ID = SLINE1					
SRCPARAM L0000467	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000468	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000469	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000470	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000471	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000472	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000473	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000474	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000475	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000476	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000477	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000478	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000479	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000480	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000481	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000482	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000483	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000484	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000485	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000486	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000487	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000488	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000489	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000490	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000491	0.0000001785	3.50	4.00	4.96	
SRCPARAM L0000492	0.0000001785	3.50	4.00	4.96	
** -----					
** LINE VOLUME Source ID = SLINE2					
SRCPARAM L0000493	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000494	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000495	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000496	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000497	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000498	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000499	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000500	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000501	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000502	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000503	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000504	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000505	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000506	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000507	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000508	0.00000009677	3.50	4.00	1.63	
SRCPARAM L0000509	0.00000009677	3.50	4.00	1.63	

SRCPARAM	L0000510	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000511	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000512	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000513	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000514	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000515	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000516	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000517	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000518	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000519	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000520	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000521	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000522	0.00000009677	3.50	4.00	1.63
SRCPARAM	L0000523	0.00000009677	3.50	4.00	1.63

**

 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0000524	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000525	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000526	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000527	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000528	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000529	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000530	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000531	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000532	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000533	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000534	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000535	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000536	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000537	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000538	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000539	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000540	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000541	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000542	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000543	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000544	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000545	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000546	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000547	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000548	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000549	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000550	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000551	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000552	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000553	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000554	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000555	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000556	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000557	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000558	0.00000004864	3.50	4.00	1.63

SRCPARAM	L0000610	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000611	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000612	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000613	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000614	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000615	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000616	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000617	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000618	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000619	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000620	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000621	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000622	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000623	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000624	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000625	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000626	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000627	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000628	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000629	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000630	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000631	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000632	0.00000004864	3.50	4.00	1.63
SRCPARAM	L0000633	0.00000004864	3.50	4.00	1.63

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** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000634	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000635	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000636	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000637	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000638	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000639	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000640	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000641	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000642	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000643	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000644	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000645	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000646	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000647	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000648	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000649	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000650	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000651	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000652	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000653	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000654	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000655	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000656	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000657	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000658	0.00000005774	3.50	4.70	1.63

SRCPARAM	L0000710	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000711	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000712	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000713	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000714	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000715	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000716	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000717	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000718	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000719	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000720	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000721	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000722	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000723	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000724	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000725	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000726	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000727	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000728	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000729	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000730	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000731	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000732	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000733	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000734	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000735	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000736	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000737	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000738	0.00000005774	3.50	4.70	1.63
SRCPARAM	L0000739	0.00000005774	3.50	4.70	1.63

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** Building Downwash **

BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67

BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66

BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
XBADJ	STCK1	-18.55	-25.03	-30.75	-35.54	-39.24	-41.98
XBADJ	STCK1	-50.16	-56.82	-61.76	-77.50	-92.58	-104.85
XBADJ	STCK1	-113.93	-119.55	-121.54	-151.31	-178.11	-199.50
XBADJ	STCK1	-214.83	-225.08	-228.50	-224.98	-214.62	-201.31
XBADJ	STCK1	-196.71	-186.13	-169.90	-148.51	-122.60	-93.84
XBADJ	STCK1	-64.84	-33.87	-2.58	3.41	-4.11	-11.50
XBADJ	STCK2	-61.85	-77.35	-90.51	-100.91	-108.25	-112.51
XBADJ	STCK2	-120.08	-124.01	-124.17	-133.23	-139.95	-142.41
XBADJ	STCK2	-140.55	-134.41	-124.20	-141.67	-156.48	-166.53
XBADJ	STCK2	-171.52	-172.76	-168.74	-159.61	-145.62	-130.77
XBADJ	STCK2	-126.79	-118.94	-107.49	-92.77	-75.23	-56.27
XBADJ	STCK2	-38.22	-19.01	0.07	-6.22	-25.74	-44.47
XBADJ	STCK3	-31.60	-41.18	-49.50	-56.31	-61.42	-64.88

XBADJ	STCK3	-73.09	-79.09	-82.68	-96.44	-108.96	-118.18
XBADJ	STCK3	-123.81	-125.67	-123.72	-149.47	-172.32	-189.93
XBADJ	STCK3	-201.77	-208.94	-209.75	-204.20	-192.44	-178.41
XBADJ	STCK3	-173.78	-163.87	-148.98	-129.57	-106.21	-80.50
XBADJ	STCK3	-54.96	-27.75	-0.41	1.58	-9.90	-21.07
XBADJ	STCK4	-84.78	-104.42	-120.88	-133.68	-142.41	-147.03
XBADJ	STCK4	-153.92	-156.13	-153.59	-159.07	-161.41	-158.85
XBADJ	STCK4	-151.46	-139.47	-123.24	-134.73	-143.77	-148.44
XBADJ	STCK4	-148.60	-145.70	-138.37	-126.84	-111.45	-96.25
XBADJ	STCK4	-92.95	-86.83	-78.07	-66.94	-53.77	-39.84
XBADJ	STCK4	-27.31	-13.95	-0.88	-13.16	-38.44	-62.56
XBADJ	STCK5	-97.03	-123.24	-145.70	-163.73	0.00	0.00
XBADJ	STCK5	-193.72	-196.86	-194.01	-197.95	-197.57	-191.19
XBADJ	STCK5	-179.00	-161.37	-138.84	-143.56	-145.55	-143.12
XBADJ	STCK5	-136.34	-126.87	-113.55	-96.78	0.00	0.00
XBADJ	STCK5	-53.15	-46.10	-37.65	-28.06	-17.61	-7.49
XBADJ	STCK5	0.23	7.95	14.72	-4.33	-36.66	-67.88
YBADJ	STCK1	-35.50	-15.01	5.51	24.55	42.84	59.48
YBADJ	STCK1	77.36	87.00	94.00	98.14	100.03	98.88
YBADJ	STCK1	94.72	87.69	79.67	73.27	64.65	54.07
YBADJ	STCK1	35.50	15.01	-5.51	-24.55	-42.84	-59.48
YBADJ	STCK1	-77.36	-87.00	-94.00	-98.14	-100.03	-98.88
YBADJ	STCK1	-94.72	-87.69	-79.67	-73.27	-64.65	-54.07
YBADJ	STCK2	20.23	32.36	43.07	51.16	57.70	62.13
YBADJ	STCK2	67.72	65.37	61.03	54.84	47.70	39.12
YBADJ	STCK2	29.35	18.69	9.13	3.35	-2.53	-8.34
YBADJ	STCK2	-20.23	-32.36	-43.07	-51.16	-57.70	-62.13
YBADJ	STCK2	-67.72	-65.37	-61.03	-54.84	-47.70	-39.12
YBADJ	STCK2	-29.35	-18.69	-9.13	-3.35	2.53	8.34
YBADJ	STCK3	-16.56	1.38	18.84	34.42	48.96	61.65
YBADJ	STCK3	75.52	81.21	84.43	85.08	83.88	80.13
YBADJ	STCK3	73.94	65.51	56.76	50.34	42.39	33.15
YBADJ	STCK3	16.56	-1.38	-18.84	-34.42	-48.96	-61.65
YBADJ	STCK3	-75.52	-81.21	-84.43	-85.08	-83.88	-80.13
YBADJ	STCK3	-73.94	-65.51	-56.76	-50.34	-42.39	-33.15
YBADJ	STCK4	46.06	53.82	59.50	62.07	62.76	61.18
YBADJ	STCK4	60.79	52.66	42.94	31.91	20.64	8.74
YBADJ	STCK4	-3.42	-15.48	-25.39	-30.48	-34.65	-37.76
YBADJ	STCK4	-46.06	-53.82	-59.50	-62.07	-62.76	-61.18
YBADJ	STCK4	-60.79	-52.66	-42.94	-31.91	-20.64	-8.74
YBADJ	STCK4	3.42	15.48	25.39	30.48	34.65	37.76
YBADJ	STCK5	84.95	89.98	91.85	89.62	0.00	0.00
YBADJ	STCK5	69.61	54.44	37.62	19.65	1.82	-16.07
YBADJ	STCK5	-33.48	-49.86	-63.06	-70.28	-75.38	-78.18

YBADJ	STCK5	-84.95	-89.98	-91.85	-89.62	0.00	0.00
YBADJ	STCK5	-69.61	-54.44	-37.62	-19.65	-1.82	16.07
YBADJ	STCK5	33.48	49.86	63.06	70.28	75.38	78.18

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**
**

RE STARTING
INCLUDED "19391 Whittier Blvd BP OY 2024.rou"

RE FINISHED
**

** AERMOD Meteorology Pathway

**
**

ME STARTING
SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"
PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"
SURFDATA 3166 2010
UAIRDATA 3190 2010
SITEDATA 99999 2010
PROFBASE 58.0 METERS

ME FINISHED
**

** AERMOD Output Pathway

**
**

OU STARTING
** Auto-Generated Plotfiles
PLOTFILE PERIOD ALL "19391 WHITTIER BLVD BP OY 2024.AD\PE00GALL.PLT" 31
SUMMFILE "19391 Whittier Blvd BP OY 2024.sum"

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	7 Warning Message(s)
A Total of	0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 22112 ***	*** 19391 Whittier Blvd BP	***	06/26/23
*** AERMET - VERSION 16216 ***	*** DPM Concentrations OY 2024	***	18:08:08
			PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 278 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * 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: 278 Source(s); 1 Source Group(s); and 450 Receptor(s)

```

with:      5 POINT(s), including
           0 POINTCAP(s) and    0 POINTHOR(s)
and:      273 VOLUME source(s)
and:      0 AREA type source(s)
and:      0 LINE source(s)
and:      0 RLINE/RLINEXT source(s)
and:      0 OPENPIT source(s)
and:      0 BUOYANT LINE source(s) with a total of    0 line(s)
and:      0 SWPOINT source(s)

```

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 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) = 58.00 ; 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 = 4.0 MB of RAM.

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

**Detailed Error/Message File: 19391 Whittier Blvd BP OY 2024.err
**File for Summary of Results: 19391 Whittier Blvd BP OY 2024.sum

```

*** AERMOD - VERSION 22112 ***    *** 19391 Whittier Blvd BP ***           *** 06/26/23
*** AERMET - VERSION 16216 ***    *** DPM Concentrations OY 2024 ***       *** 18:08:08
*** MODELOPTs:  RegDEFAULT CONC ELEV URBAN ADJ_U*                          *** PAGE 2

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*** 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	0.76400E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	

STCK2	0	0.76400E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO
STCK3	0	0.76400E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO
STCK4	0	0.76400E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO
STCK5	0	0.76400E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024

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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
L0000467	0	0.17850E-06	403373.9	3759654.0	68.8	3.50	4.00	4.96	YES	
L0000468	0	0.17850E-06	403367.6	3759648.2	68.2	3.50	4.00	4.96	YES	
L0000469	0	0.17850E-06	403361.9	3759641.8	68.2	3.50	4.00	4.96	YES	
L0000470	0	0.17850E-06	403355.7	3759635.8	68.2	3.50	4.00	4.96	YES	
L0000471	0	0.17850E-06	403348.6	3759631.2	68.1	3.50	4.00	4.96	YES	
L0000472	0	0.17850E-06	403341.0	3759627.0	68.1	3.50	4.00	4.96	YES	
L0000473	0	0.17850E-06	403333.5	3759622.9	68.0	3.50	4.00	4.96	YES	
L0000474	0	0.17850E-06	403326.0	3759618.8	67.8	3.50	4.00	4.96	YES	
L0000475	0	0.17850E-06	403318.5	3759614.6	67.7	3.50	4.00	4.96	YES	
L0000476	0	0.17850E-06	403311.0	3759610.4	67.7	3.50	4.00	4.96	YES	
L0000477	0	0.17850E-06	403303.5	3759606.1	67.6	3.50	4.00	4.96	YES	
L0000478	0	0.17850E-06	403296.0	3759601.9	67.6	3.50	4.00	4.96	YES	
L0000479	0	0.17850E-06	403288.6	3759597.7	67.5	3.50	4.00	4.96	YES	
L0000480	0	0.17850E-06	403281.1	3759593.4	67.5	3.50	4.00	4.96	YES	
L0000481	0	0.17850E-06	403273.6	3759589.2	67.4	3.50	4.00	4.96	YES	
L0000482	0	0.17850E-06	403266.1	3759585.0	67.4	3.50	4.00	4.96	YES	
L0000483	0	0.17850E-06	403258.6	3759580.7	67.2	3.50	4.00	4.96	YES	
L0000484	0	0.17850E-06	403251.2	3759576.5	67.1	3.50	4.00	4.96	YES	
L0000485	0	0.17850E-06	403243.7	3759572.3	67.0	3.50	4.00	4.96	YES	
L0000486	0	0.17850E-06	403236.2	3759568.1	66.9	3.50	4.00	4.96	YES	
L0000487	0	0.17850E-06	403228.7	3759563.8	66.8	3.50	4.00	4.96	YES	
L0000488	0	0.17850E-06	403221.3	3759559.6	66.8	3.50	4.00	4.96	YES	
L0000489	0	0.17850E-06	403213.8	3759555.4	66.7	3.50	4.00	4.96	YES	
L0000490	0	0.17850E-06	403206.3	3759551.1	66.5	3.50	4.00	4.96	YES	
L0000491	0	0.17850E-06	403198.8	3759546.9	66.2	3.50	4.00	4.96	YES	
L0000492	0	0.17850E-06	403191.3	3759542.7	65.9	3.50	4.00	4.96	YES	
L0000493	0	0.96770E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	
L0000494	0	0.96770E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES	
L0000495	0	0.96770E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES	
L0000496	0	0.96770E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES	
L0000497	0	0.96770E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES	
L0000498	0	0.96770E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES	
L0000499	0	0.96770E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES	

L0000500	0	0.96770E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0000501	0	0.96770E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0000502	0	0.96770E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0000503	0	0.96770E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0000504	0	0.96770E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0000505	0	0.96770E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0000506	0	0.96770E-07	403440.8	3759562.9	69.5	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024

*** 06/26/23
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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
L0000507	0	0.96770E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0000508	0	0.96770E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0000509	0	0.96770E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0000510	0	0.96770E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0000511	0	0.96770E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0000512	0	0.96770E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0000513	0	0.96770E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0000514	0	0.96770E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0000515	0	0.96770E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0000516	0	0.96770E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0000517	0	0.96770E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0000518	0	0.96770E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0000519	0	0.96770E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0000520	0	0.96770E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0000521	0	0.96770E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0000522	0	0.96770E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0000523	0	0.96770E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0000524	0	0.48640E-07	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0000525	0	0.48640E-07	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0000526	0	0.48640E-07	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0000527	0	0.48640E-07	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0000528	0	0.48640E-07	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0000529	0	0.48640E-07	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0000530	0	0.48640E-07	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	
L0000531	0	0.48640E-07	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES	
L0000532	0	0.48640E-07	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES	
L0000533	0	0.48640E-07	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES	
L0000534	0	0.48640E-07	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES	
L0000535	0	0.48640E-07	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES	
L0000536	0	0.48640E-07	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES	

L0000537	0	0.48640E-07	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0000538	0	0.48640E-07	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0000539	0	0.48640E-07	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0000540	0	0.48640E-07	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0000541	0	0.48640E-07	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0000542	0	0.48640E-07	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0000543	0	0.48640E-07	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0000544	0	0.48640E-07	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0000545	0	0.48640E-07	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0000546	0	0.48640E-07	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP
*** AERMET - VERSION 16216 ***   *** DPM Concentrations OY 2024
  
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*** MODELOPTs:   RegDFault CONC ELEV URBAN ADJ_U*
  
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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
L0000547	0	0.48640E-07	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES		
L0000548	0	0.48640E-07	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES		
L0000549	0	0.48640E-07	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES		
L0000550	0	0.48640E-07	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES		
L0000551	0	0.48640E-07	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES		
L0000552	0	0.48640E-07	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES		
L0000553	0	0.48640E-07	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES		
L0000554	0	0.48640E-07	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES		
L0000555	0	0.48640E-07	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES		
L0000556	0	0.48640E-07	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES		
L0000557	0	0.48640E-07	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES		
L0000558	0	0.48640E-07	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES		
L0000559	0	0.48640E-07	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES		
L0000560	0	0.48640E-07	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES		
L0000561	0	0.48640E-07	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES		
L0000562	0	0.48640E-07	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES		
L0000563	0	0.48640E-07	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES		
L0000564	0	0.48640E-07	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES		
L0000565	0	0.48640E-07	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES		
L0000566	0	0.48640E-07	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES		
L0000567	0	0.48640E-07	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES		
L0000568	0	0.48640E-07	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES		
L0000569	0	0.48640E-07	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES		
L0000570	0	0.48640E-07	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES		
L0000571	0	0.48640E-07	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES		
L0000572	0	0.48640E-07	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES		
L0000573	0	0.48640E-07	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES		

L0000574	0	0.48640E-07	403630.2	3759127.3	62.3	3.50	4.00	1.63	YES
L0000575	0	0.48640E-07	403621.8	3759125.6	62.0	3.50	4.00	1.63	YES
L0000576	0	0.48640E-07	403613.3	3759124.0	61.7	3.50	4.00	1.63	YES
L0000577	0	0.48640E-07	403604.9	3759122.4	61.4	3.50	4.00	1.63	YES
L0000578	0	0.48640E-07	403596.5	3759120.7	61.1	3.50	4.00	1.63	YES
L0000579	0	0.48640E-07	403588.0	3759119.1	60.8	3.50	4.00	1.63	YES
L0000580	0	0.48640E-07	403579.6	3759117.5	60.6	3.50	4.00	1.63	YES
L0000581	0	0.48640E-07	403571.1	3759115.9	60.4	3.50	4.00	1.63	YES
L0000582	0	0.48640E-07	403562.7	3759114.2	60.3	3.50	4.00	1.63	YES
L0000583	0	0.48640E-07	403554.3	3759112.6	60.1	3.50	4.00	1.63	YES
L0000584	0	0.48640E-07	403545.8	3759111.0	60.0	3.50	4.00	1.63	YES
L0000585	0	0.48640E-07	403537.4	3759109.3	59.9	3.50	4.00	1.63	YES
L0000586	0	0.48640E-07	403529.0	3759107.7	59.7	3.50	4.00	1.63	YES

*** AERMOT - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024

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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
L0000587	0	0.48640E-07	403520.5	3759106.1	59.6	3.50	4.00	1.63	YES	
L0000588	0	0.48640E-07	403512.1	3759104.5	59.5	3.50	4.00	1.63	YES	
L0000589	0	0.48640E-07	403503.7	3759102.8	59.4	3.50	4.00	1.63	YES	
L0000590	0	0.48640E-07	403495.2	3759101.2	59.3	3.50	4.00	1.63	YES	
L0000591	0	0.48640E-07	403486.8	3759099.6	59.1	3.50	4.00	1.63	YES	
L0000592	0	0.48640E-07	403478.4	3759097.9	58.9	3.50	4.00	1.63	YES	
L0000593	0	0.48640E-07	403469.9	3759096.3	58.8	3.50	4.00	1.63	YES	
L0000594	0	0.48640E-07	403461.5	3759094.7	58.5	3.50	4.00	1.63	YES	
L0000595	0	0.48640E-07	403453.1	3759093.1	58.3	3.50	4.00	1.63	YES	
L0000596	0	0.48640E-07	403444.6	3759091.4	58.0	3.50	4.00	1.63	YES	
L0000597	0	0.48640E-07	403436.2	3759089.8	57.8	3.50	4.00	1.63	YES	
L0000598	0	0.48640E-07	403427.8	3759088.2	57.5	3.50	4.00	1.63	YES	
L0000599	0	0.48640E-07	403419.3	3759086.5	57.4	3.50	4.00	1.63	YES	
L0000600	0	0.48640E-07	403410.9	3759084.9	57.3	3.50	4.00	1.63	YES	
L0000601	0	0.48640E-07	403402.5	3759083.3	57.2	3.50	4.00	1.63	YES	
L0000602	0	0.48640E-07	403394.0	3759081.6	57.1	3.50	4.00	1.63	YES	
L0000603	0	0.48640E-07	403385.6	3759080.0	57.1	3.50	4.00	1.63	YES	
L0000604	0	0.48640E-07	403377.1	3759078.4	57.0	3.50	4.00	1.63	YES	
L0000605	0	0.48640E-07	403368.7	3759076.8	56.9	3.50	4.00	1.63	YES	
L0000606	0	0.48640E-07	403360.3	3759075.1	56.9	3.50	4.00	1.63	YES	
L0000607	0	0.48640E-07	403351.8	3759073.5	56.8	3.50	4.00	1.63	YES	
L0000608	0	0.48640E-07	403343.4	3759071.9	56.8	3.50	4.00	1.63	YES	
L0000609	0	0.48640E-07	403335.0	3759070.2	56.7	3.50	4.00	1.63	YES	
L0000610	0	0.48640E-07	403326.5	3759068.6	56.6	3.50	4.00	1.63	YES	

L0000611	0	0.48640E-07	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0000612	0	0.48640E-07	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0000613	0	0.48640E-07	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0000614	0	0.48640E-07	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0000615	0	0.48640E-07	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0000616	0	0.48640E-07	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0000617	0	0.48640E-07	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0000618	0	0.48640E-07	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0000619	0	0.48640E-07	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0000620	0	0.48640E-07	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0000621	0	0.48640E-07	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0000622	0	0.48640E-07	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0000623	0	0.48640E-07	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0000624	0	0.48640E-07	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0000625	0	0.48640E-07	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0000626	0	0.48640E-07	403191.6	3759042.5	53.8	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER 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
L0000627	0	0.48640E-07	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0000628	0	0.48640E-07	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0000629	0	0.48640E-07	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0000630	0	0.48640E-07	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0000631	0	0.48640E-07	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0000632	0	0.48640E-07	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0000633	0	0.48640E-07	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0000634	0	0.57740E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0000635	0	0.57740E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0000636	0	0.57740E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0000637	0	0.57740E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0000638	0	0.57740E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0000639	0	0.57740E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0000640	0	0.57740E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0000641	0	0.57740E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	
L0000642	0	0.57740E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES	
L0000643	0	0.57740E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES	
L0000644	0	0.57740E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES	
L0000645	0	0.57740E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES	
L0000646	0	0.57740E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES	
L0000647	0	0.57740E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES	

L0000648	0	0.57740E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0000649	0	0.57740E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0000650	0	0.57740E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0000651	0	0.57740E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0000652	0	0.57740E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0000653	0	0.57740E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0000654	0	0.57740E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0000655	0	0.57740E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0000656	0	0.57740E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0000657	0	0.57740E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0000658	0	0.57740E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0000659	0	0.57740E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0000660	0	0.57740E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0000661	0	0.57740E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0000662	0	0.57740E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0000663	0	0.57740E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0000664	0	0.57740E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0000665	0	0.57740E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0000666	0	0.57740E-07	403388.4	3759742.7	72.4	3.50	4.70	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024

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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)						
L0000667	0	0.57740E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0000668	0	0.57740E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0000669	0	0.57740E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0000670	0	0.57740E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0000671	0	0.57740E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0000672	0	0.57740E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0000673	0	0.57740E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0000674	0	0.57740E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0000675	0	0.57740E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0000676	0	0.57740E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0000677	0	0.57740E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0000678	0	0.57740E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	
L0000679	0	0.57740E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES	
L0000680	0	0.57740E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES	
L0000681	0	0.57740E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES	
L0000682	0	0.57740E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES	
L0000683	0	0.57740E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES	
L0000684	0	0.57740E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES	

L0000685	0	0.57740E-07	403290.6	3759908.1	71.3	3.50	4.70	1.63	YES
L0000686	0	0.57740E-07	403285.5	3759916.8	71.3	3.50	4.70	1.63	YES
L0000687	0	0.57740E-07	403280.3	3759925.5	71.2	3.50	4.70	1.63	YES
L0000688	0	0.57740E-07	403275.2	3759934.2	71.2	3.50	4.70	1.63	YES
L0000689	0	0.57740E-07	403270.0	3759942.9	71.2	3.50	4.70	1.63	YES
L0000690	0	0.57740E-07	403264.9	3759951.6	71.2	3.50	4.70	1.63	YES
L0000691	0	0.57740E-07	403259.7	3759960.3	71.1	3.50	4.70	1.63	YES
L0000692	0	0.57740E-07	403254.6	3759969.0	71.0	3.50	4.70	1.63	YES
L0000693	0	0.57740E-07	403249.4	3759977.7	71.0	3.50	4.70	1.63	YES
L0000694	0	0.57740E-07	403244.3	3759986.5	71.0	3.50	4.70	1.63	YES
L0000695	0	0.57740E-07	403239.2	3759995.2	70.9	3.50	4.70	1.63	YES
L0000696	0	0.57740E-07	403234.0	3760003.9	70.9	3.50	4.70	1.63	YES
L0000697	0	0.57740E-07	403228.9	3760012.6	70.8	3.50	4.70	1.63	YES
L0000698	0	0.57740E-07	403223.7	3760021.3	70.8	3.50	4.70	1.63	YES
L0000699	0	0.57740E-07	403218.6	3760030.0	70.8	3.50	4.70	1.63	YES
L0000700	0	0.57740E-07	403213.4	3760038.7	70.7	3.50	4.70	1.63	YES
L0000701	0	0.57740E-07	403208.3	3760047.4	70.6	3.50	4.70	1.63	YES
L0000702	0	0.57740E-07	403203.1	3760056.1	70.5	3.50	4.70	1.63	YES
L0000703	0	0.57740E-07	403198.0	3760064.8	70.5	3.50	4.70	1.63	YES
L0000704	0	0.57740E-07	403192.8	3760073.5	70.5	3.50	4.70	1.63	YES
L0000705	0	0.57740E-07	403187.7	3760082.2	70.5	3.50	4.70	1.63	YES
L0000706	0	0.57740E-07	403182.5	3760090.9	70.5	3.50	4.70	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024

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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)						
L0000707	0	0.57740E-07	403177.4	3760099.6	70.4	3.50	4.70	1.63	YES	
L0000708	0	0.57740E-07	403172.2	3760108.4	70.4	3.50	4.70	1.63	YES	
L0000709	0	0.57740E-07	403167.1	3760117.1	70.5	3.50	4.70	1.63	YES	
L0000710	0	0.57740E-07	403161.9	3760125.8	70.5	3.50	4.70	1.63	YES	
L0000711	0	0.57740E-07	403156.8	3760134.5	70.4	3.50	4.70	1.63	YES	
L0000712	0	0.57740E-07	403151.6	3760143.2	70.3	3.50	4.70	1.63	YES	
L0000713	0	0.57740E-07	403146.5	3760151.9	70.3	3.50	4.70	1.63	YES	
L0000714	0	0.57740E-07	403141.3	3760160.6	70.3	3.50	4.70	1.63	YES	
L0000715	0	0.57740E-07	403136.2	3760169.3	70.3	3.50	4.70	1.63	YES	
L0000716	0	0.57740E-07	403131.1	3760178.0	70.2	3.50	4.70	1.63	YES	
L0000717	0	0.57740E-07	403125.9	3760186.7	70.1	3.50	4.70	1.63	YES	
L0000718	0	0.57740E-07	403120.8	3760195.4	70.0	3.50	4.70	1.63	YES	
L0000719	0	0.57740E-07	403115.6	3760204.1	70.0	3.50	4.70	1.63	YES	
L0000720	0	0.57740E-07	403110.5	3760212.8	70.1	3.50	4.70	1.63	YES	
L0000721	0	0.57740E-07	403105.3	3760221.5	70.1	3.50	4.70	1.63	YES	

L0000722	0	0.57740E-07	403100.2	3760230.3	70.2	3.50	4.70	1.63	YES
L0000723	0	0.57740E-07	403095.0	3760239.0	70.2	3.50	4.70	1.63	YES
L0000724	0	0.57740E-07	403089.9	3760247.7	70.3	3.50	4.70	1.63	YES
L0000725	0	0.57740E-07	403084.7	3760256.4	70.4	3.50	4.70	1.63	YES
L0000726	0	0.57740E-07	403079.6	3760265.1	70.4	3.50	4.70	1.63	YES
L0000727	0	0.57740E-07	403074.4	3760273.8	70.5	3.50	4.70	1.63	YES
L0000728	0	0.57740E-07	403069.3	3760282.5	70.7	3.50	4.70	1.63	YES
L0000729	0	0.57740E-07	403064.1	3760291.2	70.9	3.50	4.70	1.63	YES
L0000730	0	0.57740E-07	403059.0	3760299.9	71.0	3.50	4.70	1.63	YES
L0000731	0	0.57740E-07	403053.8	3760308.6	71.2	3.50	4.70	1.63	YES
L0000732	0	0.57740E-07	403048.7	3760317.3	71.3	3.50	4.70	1.63	YES
L0000733	0	0.57740E-07	403043.5	3760326.0	71.4	3.50	4.70	1.63	YES
L0000734	0	0.57740E-07	403038.4	3760334.7	71.2	3.50	4.70	1.63	YES
L0000735	0	0.57740E-07	403033.3	3760343.4	71.1	3.50	4.70	1.63	YES
L0000736	0	0.57740E-07	403028.1	3760352.1	71.0	3.50	4.70	1.63	YES
L0000737	0	0.57740E-07	403023.0	3760360.9	70.9	3.50	4.70	1.63	YES
L0000738	0	0.57740E-07	403017.8	3760369.6	71.0	3.50	4.70	1.63	YES
L0000739	0	0.57740E-07	403012.7	3760378.3	71.1	3.50	4.70	1.63	YES

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs								
-----	-----								
ALL	STCK1	, STCK2	, STCK3	, STCK4	, STCK5	, L0000467	, L0000468	, L0000469	,
	L0000470	, L0000471	, L0000472	, L0000473	, L0000474	, L0000475	, L0000476	, L0000477	,
	L0000478	, L0000479	, L0000480	, L0000481	, L0000482	, L0000483	, L0000484	, L0000485	,
	L0000486	, L0000487	, L0000488	, L0000489	, L0000490	, L0000491	, L0000492	, L0000493	,
	L0000494	, L0000495	, L0000496	, L0000497	, L0000498	, L0000499	, L0000500	, L0000501	,
	L0000502	, L0000503	, L0000504	, L0000505	, L0000506	, L0000507	, L0000508	, L0000509	,
	L0000510	, L0000511	, L0000512	, L0000513	, L0000514	, L0000515	, L0000516	, L0000517	,
	L0000518	, L0000519	, L0000520	, L0000521	, L0000522	, L0000523	, L0000524	, L0000525	,
	L0000526	, L0000527	, L0000528	, L0000529	, L0000530	, L0000531	, L0000532	, L0000533	,
	L0000534	, L0000535	, L0000536	, L0000537	, L0000538	, L0000539	, L0000540	, L0000541	,

L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 , L0000549 ,
 L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 ,
 L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 ,
 L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , L0000573 ,
 L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 , L0000580 , L0000581 ,
 L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 , L0000588 , L0000589 ,
 L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 , L0000596 , L0000597 ,
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 L0000606 , L0000607 , L0000608 , L0000609 , L0000610 , L0000611 , L0000612 , L0000613 ,
 L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 , L0000621 ,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0000622 , L0000623 , L0000624 , L0000625 , L0000626 , L0000627 , L0000628 , L0000629 ,
 L0000630 , L0000631 , L0000632 , L0000633 , L0000634 , L0000635 , L0000636 , L0000637 ,
 L0000638 , L0000639 , L0000640 , L0000641 , L0000642 , L0000643 , L0000644 , L0000645 ,
 L0000646 , L0000647 , L0000648 , L0000649 , L0000650 , L0000651 , L0000652 , L0000653 ,
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 L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 , L0000693 ,
 L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 , L0000701 ,

L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , L0000708 , L0000709 ,
 L0000710 , L0000711 , L0000712 , L0000713 , L0000714 , L0000715 , L0000716 , L0000717 ,
 L0000718 , L0000719 , L0000720 , L0000721 , L0000722 , L0000723 , L0000724 , L0000725 ,
 L0000726 , L0000727 , L0000728 , L0000729 , L0000730 , L0000731 , L0000732 , L0000733 ,
 L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 ,

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
L0000469	9818605.	STCK1	, STCK2	, STCK3	, STCK4	, STCK5	, L0000467	, L0000468	,
	,								
	L0000470	, L0000471	, L0000472	, L0000473	, L0000474	, L0000475	, L0000476	, L0000477	,
	L0000478	, L0000479	, L0000480	, L0000481	, L0000482	, L0000483	, L0000484	, L0000485	,
	L0000486	, L0000487	, L0000488	, L0000489	, L0000490	, L0000491	, L0000492	, L0000493	,
	L0000494	, L0000495	, L0000496	, L0000497	, L0000498	, L0000499	, L0000500	, L0000501	,
	L0000502	, L0000503	, L0000504	, L0000505	, L0000506	, L0000507	, L0000508	, L0000509	,
	L0000510	, L0000511	, L0000512	, L0000513	, L0000514	, L0000515	, L0000516	, L0000517	,
	L0000518	, L0000519	, L0000520	, L0000521	, L0000522	, L0000523	, L0000524	, L0000525	,
	L0000526	, L0000527	, L0000528	, L0000529	, L0000530	, L0000531	, L0000532	, L0000533	,
	L0000534	, L0000535	, L0000536	, L0000537	, L0000538	, L0000539	, L0000540	, L0000541	,
	L0000542	, L0000543	, L0000544	, L0000545	, L0000546	, L0000547	, L0000548	, L0000549	,
	L0000550	, L0000551	, L0000552	, L0000553	, L0000554	, L0000555	, L0000556	, L0000557	,
	L0000558	, L0000559	, L0000560	, L0000561	, L0000562	, L0000563	, L0000564	, L0000565	,
	L0000566	, L0000567	, L0000568	, L0000569	, L0000570	, L0000571	, L0000572	, L0000573	,

L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 , L0000580 , L0000581 ,
 L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 , L0000588 , L0000589 ,
 L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 , L0000596 , L0000597 ,
 L0000598 , L0000599 , L0000600 , L0000601 , L0000602 , L0000603 , L0000604 , L0000605 ,
 L0000606 , L0000607 , L0000608 , L0000609 , L0000610 , L0000611 , L0000612 , L0000613 ,
 L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 , L0000621 ,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
L0000622		, L0000623	, L0000624	, L0000625	, L0000626	, L0000627	, L0000628	, L0000629	,
L0000630		, L0000631	, L0000632	, L0000633	, L0000634	, L0000635	, L0000636	, L0000637	,
L0000638		, L0000639	, L0000640	, L0000641	, L0000642	, L0000643	, L0000644	, L0000645	,
L0000646		, L0000647	, L0000648	, L0000649	, L0000650	, L0000651	, L0000652	, L0000653	,
L0000654		, L0000655	, L0000656	, L0000657	, L0000658	, L0000659	, L0000660	, L0000661	,
L0000662		, L0000663	, L0000664	, L0000665	, L0000666	, L0000667	, L0000668	, L0000669	,
L0000670		, L0000671	, L0000672	, L0000673	, L0000674	, L0000675	, L0000676	, L0000677	,
L0000678		, L0000679	, L0000680	, L0000681	, L0000682	, L0000683	, L0000684	, L0000685	,
L0000686		, L0000687	, L0000688	, L0000689	, L0000690	, L0000691	, L0000692	, L0000693	,
L0000694		, L0000695	, L0000696	, L0000697	, L0000698	, L0000699	, L0000700	, L0000701	,
L0000702		, L0000703	, L0000704	, L0000705	, L0000706	, L0000707	, L0000708	, L0000709	,
L0000710		, L0000711	, L0000712	, L0000713	, L0000714	, L0000715	, L0000716	, L0000717	,
L0000718		, L0000719	, L0000720	, L0000721	, L0000722	, L0000723	, L0000724	, L0000725	,

L0000726 , L0000727 , L0000728 , L0000729 , L0000730 , L0000731 , L0000732 , L0000733 ,
 L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 ,

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP
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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	10.7	226.0	233.4	-18.6	-35.5	2	10.7	215.2	250.1	-25.0	-15.0
3	10.7	198.7	259.2	-30.8	5.5	4	10.7	178.8	260.5	-35.5	24.6
5	10.7	153.4	253.9	-39.2	42.8	6	10.7	124.1	243.3	-42.0	59.5
7	10.7	147.9	246.9	-50.2	77.4	8	10.7	182.2	243.0	-56.8	87.0
9	10.7	211.0	231.7	-61.8	94.0	10	10.7	233.4	226.0	-77.5	98.1
11	10.7	250.1	215.2	-92.6	100.0	12	10.7	259.2	198.7	-104.8	98.9
13	10.7	260.5	178.8	-113.9	94.7	14	10.7	253.9	153.4	-119.5	87.7
15	10.7	243.3	124.1	-121.5	79.7	16	10.7	246.9	147.9	-151.3	73.3
17	10.7	243.0	182.2	-178.1	64.6	18	10.7	231.7	211.0	-199.5	54.1
19	10.7	226.0	233.4	-214.8	35.5	20	10.7	215.2	250.1	-225.1	15.0
21	10.7	198.7	259.2	-228.5	-5.5	22	10.7	178.8	260.5	-225.0	-24.6
23	10.7	153.4	253.9	-214.6	-42.8	24	10.7	124.1	243.3	-201.3	-59.5
25	10.7	147.9	246.9	-196.7	-77.4	26	10.7	182.2	243.0	-186.1	-87.0
27	10.7	211.0	231.7	-169.9	-94.0	28	10.7	233.4	226.0	-148.5	-98.1
29	10.7	250.1	215.2	-122.6	-100.0	30	10.7	259.2	198.7	-93.8	-98.9
31	10.7	260.5	178.8	-64.8	-94.7	32	10.7	253.9	153.4	-33.9	-87.7
33	10.7	243.3	124.1	-2.6	-79.7	34	10.7	246.9	147.9	3.4	-73.3
35	10.7	243.0	182.2	-4.1	-64.6	36	10.7	231.7	211.0	-11.5	-54.1

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7	226.0	233.4	-61.8	20.2	2	10.7	215.2	250.1	-77.3	32.4
3	10.7	198.7	259.2	-90.5	43.1	4	10.7	178.8	260.5	-100.9	51.2
5	10.7	153.4	253.9	-108.2	57.7	6	10.7	124.1	243.3	-112.5	62.1
7	10.7	147.9	246.9	-120.1	67.7	8	10.7	182.2	243.0	-124.0	65.4
9	10.7	211.0	231.7	-124.2	61.0	10	10.7	233.4	226.0	-133.2	54.8
11	10.7	250.1	215.2	-140.0	47.7	12	10.7	259.2	198.7	-142.4	39.1
13	10.7	260.5	178.8	-140.6	29.4	14	10.7	253.9	153.4	-134.4	18.7
15	10.7	243.3	124.1	-124.2	9.1	16	10.7	246.9	147.9	-141.7	3.3
17	10.7	243.0	182.2	-156.5	-2.5	18	10.7	231.7	211.0	-166.5	-8.3
19	10.7	226.0	233.4	-171.5	-20.2	20	10.7	215.2	250.1	-172.8	-32.4
21	10.7	198.7	259.2	-168.7	-43.1	22	10.7	178.8	260.5	-159.6	-51.2
23	10.7	153.4	253.9	-145.6	-57.7	24	10.7	124.1	243.3	-130.8	-62.1
25	10.7	147.9	246.9	-126.8	-67.7	26	10.7	182.2	243.0	-118.9	-65.4
27	10.7	211.0	231.7	-107.5	-61.0	28	10.7	233.4	226.0	-92.8	-54.8
29	10.7	250.1	215.2	-75.2	-47.7	30	10.7	259.2	198.7	-56.3	-39.1

31	10.7,	260.5,	178.8,	-38.2,	-29.4,	32	10.7,	253.9,	153.4,	-19.0,	-18.7,
33	10.7,	243.3,	124.1,	0.1,	-9.1,	34	10.7,	246.9,	147.9,	-6.2,	-3.3,
35	10.7,	243.0,	182.2,	-25.7,	2.5,	36	10.7,	231.7,	211.0,	-44.5,	8.3,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-31.6,	-16.6,	2	10.7,	215.2,	250.1,	-41.2,	1.4,
3	10.7,	198.7,	259.2,	-49.5,	18.8,	4	10.7,	178.8,	260.5,	-56.3,	34.4,
5	10.7,	153.4,	253.9,	-61.4,	49.0,	6	10.7,	124.1,	243.3,	-64.9,	61.6,
7	10.7,	147.9,	246.9,	-73.1,	75.5,	8	10.7,	182.2,	243.0,	-79.1,	81.2,
9	10.7,	211.0,	231.7,	-82.7,	84.4,	10	10.7,	233.4,	226.0,	-96.4,	85.1,
11	10.7,	250.1,	215.2,	-109.0,	83.9,	12	10.7,	259.2,	198.7,	-118.2,	80.1,
13	10.7,	260.5,	178.8,	-123.8,	73.9,	14	10.7,	253.9,	153.4,	-125.7,	65.5,
15	10.7,	243.3,	124.1,	-123.7,	56.8,	16	10.7,	246.9,	147.9,	-149.5,	50.3,
17	10.7,	243.0,	182.2,	-172.3,	42.4,	18	10.7,	231.7,	211.0,	-189.9,	33.1,
19	10.7,	226.0,	233.4,	-201.8,	16.6,	20	10.7,	215.2,	250.1,	-208.9,	-1.4,
21	10.7,	198.7,	259.2,	-209.8,	-18.8,	22	10.7,	178.8,	260.5,	-204.2,	-34.4,
23	10.7,	153.4,	253.9,	-192.4,	-49.0,	24	10.7,	124.1,	243.3,	-178.4,	-61.6,
25	10.7,	147.9,	246.9,	-173.8,	-75.5,	26	10.7,	182.2,	243.0,	-163.9,	-81.2,
27	10.7,	211.0,	231.7,	-149.0,	-84.4,	28	10.7,	233.4,	226.0,	-129.6,	-85.1,
29	10.7,	250.1,	215.2,	-106.2,	-83.9,	30	10.7,	259.2,	198.7,	-80.5,	-80.1,
31	10.7,	260.5,	178.8,	-55.0,	-73.9,	32	10.7,	253.9,	153.4,	-27.8,	-65.5,
33	10.7,	243.3,	124.1,	-0.4,	-56.8,	34	10.7,	246.9,	147.9,	1.6,	-50.3,
35	10.7,	243.0,	182.2,	-9.9,	-42.4,	36	10.7,	231.7,	211.0,	-21.1,	-33.1,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-84.8,	46.1,	2	10.7,	215.2,	250.1,	-104.4,	53.8,
3	10.7,	198.7,	259.2,	-120.9,	59.5,	4	10.7,	178.8,	260.5,	-133.7,	62.1,
5	10.7,	153.4,	253.9,	-142.4,	62.8,	6	10.7,	124.1,	243.3,	-147.0,	61.2,
7	10.7,	147.9,	246.9,	-153.9,	60.8,	8	10.7,	182.2,	243.0,	-156.1,	52.7,
9	10.7,	211.0,	231.7,	-153.6,	42.9,	10	10.7,	233.4,	226.0,	-159.1,	31.9,
11	10.7,	250.1,	215.2,	-161.4,	20.6,	12	10.7,	259.2,	198.7,	-158.9,	8.7,
13	10.7,	260.5,	178.8,	-151.5,	-3.4,	14	10.7,	253.9,	153.4,	-139.5,	-15.5,
15	10.7,	243.3,	124.1,	-123.2,	-25.4,	16	10.7,	246.9,	147.9,	-134.7,	-30.5,
17	10.7,	243.0,	182.2,	-143.8,	-34.6,	18	10.7,	231.7,	211.0,	-148.4,	-37.8,
19	10.7,	226.0,	233.4,	-148.6,	-46.1,	20	10.7,	215.2,	250.1,	-145.7,	-53.8,
21	10.7,	198.7,	259.2,	-138.4,	-59.5,	22	10.7,	178.8,	260.5,	-126.8,	-62.1,
23	10.7,	153.4,	253.9,	-111.5,	-62.8,	24	10.7,	124.1,	243.3,	-96.2,	-61.2,
25	10.7,	147.9,	246.9,	-93.0,	-60.8,	26	10.7,	182.2,	243.0,	-86.8,	-52.7,
27	10.7,	211.0,	231.7,	-78.1,	-42.9,	28	10.7,	233.4,	226.0,	-66.9,	-31.9,
29	10.7,	250.1,	215.2,	-53.8,	-20.6,	30	10.7,	259.2,	198.7,	-39.8,	-8.7,
31	10.7,	260.5,	178.8,	-27.3,	3.4,	32	10.7,	253.9,	153.4,	-14.0,	15.5,
33	10.7,	243.3,	124.1,	-0.9,	25.4,	34	10.7,	246.9,	147.9,	-13.2,	30.5,
35	10.7,	243.0,	182.2,	-38.4,	34.6,	36	10.7,	231.7,	211.0,	-62.6,	37.8,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024

*** 06/26/23
 *** 18:08:08

*** AERMOD - VERSION 22112 ***
 *** AERMET - VERSION 16216 ***

*** 19391 Whittier Blvd BP
 *** DPM Concentrations OY 2024

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

*** 06/26/23
 *** 18:08:08
 *** PAGE 17

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** AERMOD - VERSION 22112 ***
 *** AERMET - VERSION 16216 ***

*** 19391 Whittier Blvd BP
 *** DPM Concentrations OY 2024

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

*** 06/26/23
 *** 18:08:08
 *** PAGE 18

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70

3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP   ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations OY 2024 ***   18:08:08
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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(403076.6, 3759566.9,	63.0,	63.0,	0.0);	(403074.6, 3759594.7,	63.1,	63.1,	0.0);
(403074.3, 3759652.4,	63.8,	63.8,	0.0);	(403036.2, 3759545.2,	61.6,	61.6,	0.0);
(403491.1, 3759689.7,	73.7,	73.7,	0.0);	(403558.2, 3759512.8,	71.0,	71.0,	0.0);
(403587.6, 3759479.4,	70.9,	70.9,	0.0);	(403471.1, 3759691.3,	73.3,	73.3,	0.0);
(403097.0, 3760166.2,	69.1,	69.1,	0.0);				

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP   ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations OY 2024 ***   18:08:08
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
  LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

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SOURCE ID	- - RECEPTOR LOCATION - -	DISTANCE (METERS)
	XR (METERS) YR (METERS)	
L0000472	403339.6 3759627.6	-7.09
L0000473	403339.6 3759627.6	-0.90
L0000489	403207.8 3759557.9	-2.06
L0000490	403207.8 3759557.9	-1.64
L0000497	403405.5 3759627.6	-4.59
L0000498	403405.5 3759627.6	-3.45
L0000528	403537.4 3759418.7	0.82
L0000556	403669.3 3759209.8	-3.56
L0000557	403669.3 3759209.8	-5.02
L0000608	403339.6 3759070.5	-4.58
L0000609	403339.6 3759070.5	-3.94
L0000636	403537.4 3759488.3	-1.57
L0000637	403537.4 3759488.3	-7.74
L0000652	403471.5 3759627.6	-0.10
L0000661	403405.5 3759697.2	-0.35
L0000676	403339.6 3759836.5	-2.86
L0000677	403339.6 3759836.5	-2.05

3760254.24	0.00009	0.00011	0.00013	0.00016	0.00021	0.00030	0.00073	0.00041	0.00031
3760184.61	0.00010	0.00013	0.00015	0.00019	0.00024	0.00030	0.00045	0.00087	0.00043
3760114.98	0.00012	0.00014	0.00017	0.00021	0.00027	0.00033	0.00043	0.00072	0.00066
3760045.35	0.00013	0.00016	0.00019	0.00024	0.00030	0.00038	0.00046	0.00060	0.00096
3759975.72	0.00014	0.00017	0.00021	0.00027	0.00034	0.00043	0.00053	0.00065	0.00087
3759906.09	0.00015	0.00019	0.00024	0.00030	0.00038	0.00048	0.00061	0.00076	0.00094
3759836.46	0.00016	0.00020	0.00026	0.00032	0.00041	0.00053	0.00069	0.00092	0.00123
3759766.83	0.00017	0.00022	0.00027	0.00035	0.00044	0.00057	0.00078	0.00131	0.00160
3759697.20	0.00018	0.00022	0.00029	0.00036	0.00046	0.00061	0.00091	0.00128	0.00175
3759627.57	0.00018	0.00023	0.00029	0.00037	0.00048	0.00065	0.00113	0.00121	0.00217
3759557.94	0.00018	0.00023	0.00029	0.00037	0.00049	0.00070	0.00113	0.00190	0.00315
3759488.31	0.00017	0.00022	0.00028	0.00036	0.00049	0.00071	0.00115	0.00187	0.00197
3759418.68	0.00016	0.00021	0.00027	0.00036	0.00049	0.00071	0.00097	0.00107	0.00092
3759349.05	0.00015	0.00020	0.00026	0.00035	0.00047	0.00061	0.00068	0.00066	0.00058
3759279.42	0.00014	0.00018	0.00024	0.00031	0.00039	0.00047	0.00048	0.00044	0.00040
3759209.79	0.00013	0.00017	0.00021	0.00026	0.00031	0.00034	0.00034	0.00032	0.00031
3759140.16	0.00012	0.00015	0.00018	0.00021	0.00024	0.00025	0.00026	0.00027	0.00029
3759070.53	0.00010	0.00012	0.00015	0.00017	0.00018	0.00020	0.00022	0.00034	0.00051
3759000.90	0.00009	0.00011	0.00012	0.00013	0.00014	0.00016	0.00018	0.00030	0.00031

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
 *** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024 *** 18:08:08
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*** MODELOPTS: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
 L0000467 , L0000468 , L0000469 , L0000470 , L0000471 , L0000472 , L0000473 , L0000474 ,
 L0000475 , L0000476 , L0000477 , L0000478 , L0000479 , L0000480 , L0000481 , L0000482 ,
 L0000483 , L0000484 , L0000485 , L0000486 , L0000487 , L0000488 , L0000489 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	0.00018	0.00017	0.00016	0.00016	0.00014	0.00013	0.00012	0.00011	0.00010
3760323.87	0.00022	0.00021	0.00020	0.00019	0.00017	0.00016	0.00014	0.00013	0.00012
3760254.24	0.00028	0.00027	0.00025	0.00023	0.00021	0.00019	0.00017	0.00015	0.00013
3760184.61	0.00037	0.00035	0.00032	0.00029	0.00026	0.00023	0.00020	0.00017	0.00015
3760114.98	0.00049	0.00045	0.00041	0.00036	0.00031	0.00027	0.00023	0.00020	0.00017
3760045.35	0.00068	0.00059	0.00052	0.00045	0.00039	0.00033	0.00027	0.00023	0.00018
3759975.72	0.00111	0.00079	0.00067	0.00057	0.00048	0.00039	0.00031	0.00025	0.00020
3759906.09	0.00139	0.00111	0.00089	0.00072	0.00058	0.00045	0.00034	0.00026	0.00020
3759836.46	0.00146	0.00167	0.00121	0.00090	0.00066	0.00048	0.00035	0.00026	0.00020
3759766.83	0.00192	0.00217	0.00180	0.00107	0.00070	0.00048	0.00035	0.00026	0.00019
3759697.20	0.00232	0.00196	0.00242	0.00117	0.00070	0.00047	0.00033	0.00024	0.00019
3759627.57	0.00284	0.00351	0.00252	0.00149	0.00071	0.00046	0.00032	0.00024	0.00018

3759557.94	0.00272	0.00187	0.00161	0.00165	0.00088	0.00048	0.00033	0.00024	0.00018
3759488.31	0.00152	0.00116	0.00104	0.00192	0.00119	0.00052	0.00033	0.00024	0.00018
3759418.68	0.00079	0.00073	0.00070	0.00078	0.00111	0.00056	0.00035	0.00025	0.00019
3759349.05	0.00052	0.00050	0.00050	0.00050	0.00057	0.00091	0.00038	0.00026	0.00019
3759279.42	0.00038	0.00038	0.00038	0.00038	0.00041	0.00063	0.00050	0.00028	0.00020
3759209.79	0.00032	0.00032	0.00033	0.00034	0.00036	0.00042	0.00072	0.00032	0.00019
3759140.16	0.00032	0.00034	0.00038	0.00043	0.00051	0.00068	0.00095	0.00033	0.00017
3759070.53	0.00078	0.00067	0.00073	0.00050	0.00039	0.00032	0.00027	0.00020	0.00014
3759000.90	0.00028	0.00026	0.00024	0.00022	0.00020	0.00019	0.00016	0.00014	0.00012

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
*** AERMET - VERSION 16216 *** *** DPM Concentrations OY 2024 *** 18:08:08
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 29

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
L0000467 , L0000468 , L0000469 , L0000470 , L0000471 , L0000472 , L0000473 , L0000474 ,
L0000475 , L0000476 , L0000477 , L0000478 , L0000479 , L0000480 , L0000481 , L0000482 ,
L0000483 , L0000484 , L0000485 , L0000486 , L0000487 , L0000488 , L0000489 ,

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

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

Y-COORD (METERS)			X-COORD (METERS)	
3760393.50	0.00009	0.00008	403867.06	403998.92
3760323.87	0.00010	0.00009		
3760254.24	0.00012	0.00010		
3760184.61	0.00013	0.00011		
3760114.98	0.00014	0.00012		
3760045.35	0.00015	0.00013		
3759975.72	0.00016	0.00013		
3759906.09	0.00016	0.00013		
3759836.46	0.00016	0.00012		
3759766.83	0.00015	0.00012		
3759697.20	0.00014	0.00012		
3759627.57	0.00014	0.00011		
3759557.94	0.00014	0.00011		
3759488.31	0.00014	0.00012		
3759418.68	0.00015	0.00012		
3759349.05	0.00015	0.00012		
3759279.42	0.00015	0.00012		
3759209.79	0.00014	0.00011		
3759140.16	0.00013	0.00011		
3759070.53	0.00012	0.00010		
3759000.90	0.00010	0.00009		

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations OY 2024       ***   18:08:08
                                     *** PAGE 30

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*** MODELOPTs:  RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):  STCK1      , STCK2      , STCK3      , STCK4      , STCK5      ,
L0000467 , L0000468 , L0000469 , L0000470 , L0000471 , L0000472 , L0000473 , L0000474 ,
L0000475 , L0000476 , L0000477 , L0000478 , L0000479 , L0000480 , L0000481 , L0000482 ,
L0000483 , L0000484 , L0000485 , L0000486 , L0000487 , L0000488 , L0000489 , . . .

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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** CONC OF DPM      IN MICROGRAMS/M**3      **
-----
X-COORD (M)  Y-COORD (M)  CONC      X-COORD (M)  Y-COORD (M)  CONC
-----
403076.63   3759566.89   0.00114   403074.61   3759594.66   0.00112
403074.33   3759652.43   0.00107   403036.23   3759545.23   0.00082
403491.13   3759689.69   0.00099   403558.25   3759512.77   0.00085
403587.63   3759479.41   0.00062   403471.13   3759691.31   0.00119
403096.96   3760166.19   0.00052

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations OY 2024       ***   18:08:08
                                     *** PAGE 31

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*** MODELOPTs:  RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

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** 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  0.00351 AT ( 403339.62, 3759627.57, 68.10, 68.10, 0.00) GC UCART1
              2ND HIGHEST VALUE IS  0.00315 AT ( 403207.76, 3759557.94, 66.70, 66.70, 0.00) GC UCART1
              3RD HIGHEST VALUE IS  0.00284 AT ( 403273.69, 3759627.57, 67.70, 67.70, 0.00) GC UCART1
              4TH HIGHEST VALUE IS  0.00272 AT ( 403273.69, 3759557.94, 66.40, 66.40, 0.00) GC UCART1
              5TH HIGHEST VALUE IS  0.00252 AT ( 403405.55, 3759627.57, 70.40, 70.40, 0.00) GC UCART1
              6TH HIGHEST VALUE IS  0.00242 AT ( 403405.55, 3759697.20, 72.10, 72.10, 0.00) GC UCART1
              7TH HIGHEST VALUE IS  0.00232 AT ( 403273.69, 3759697.20, 68.00, 68.00, 0.00) GC UCART1
              8TH HIGHEST VALUE IS  0.00217 AT ( 403207.76, 3759627.57, 67.30, 67.30, 0.00) GC UCART1
              9TH HIGHEST VALUE IS  0.00217 AT ( 403339.62, 3759766.83, 71.30, 71.30, 0.00) GC UCART1
             10TH HIGHEST VALUE IS  0.00197 AT ( 403207.76, 3759488.31, 64.10, 64.10, 0.00) GC UCART1

```

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*** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR

```

DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP
*** AERMET - VERSION 16216 *** DPM Concentrations OY 2024

*** 06/26/23
*** 18:08:08
*** PAGE 32

*** 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 9 Warning Message(s)
A Total of 1277 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 152 Calm Hours Identified

A Total of 1125 Missing Hours Identified (2.57 Percent)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	15010101
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

*** AERMOD Finishes Successfully ***

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 6/26/2023
** File: C:\Lakes\AERMOD View\19391 Whittier Blvd BP 2YR\19391 Whittier Blvd BP 2YR.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE 19391 Whittier Blvd BP
TITLETWO DPM Concentrations 2YR 2025-2026
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 9818605 Los_Angeles_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19391 Whittier Blvd BP 2YR.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION STCK1 POINT 403193.640 3759565.730 66.820
** DESCRSRC Truck idling Location
LOCATION STCK2 POINT 403256.045 3759598.705 67.440
** DESCRSRC Truck idling Location
LOCATION STCK3 POINT 403214.561 3759575.303 66.930
** DESCRSRC Truck idling Location
LOCATION STCK4 POINT 403285.474 3759616.787 67.600
** DESCRSRC Truck idling Location
LOCATION STCK5 POINT 403325.895 3759622.106 67.810
** DESCRSRC Truck idling Location
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel

```

```

** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.22E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403377.081, 3759656.927, 68.97, 3.50, 4.00
** 403368.321, 3759649.002, 68.27, 3.50, 4.00
** 403361.646, 3759641.493, 68.07, 3.50, 4.00
** 403353.721, 3759633.985, 68.07, 3.50, 4.00
** 403323.270, 3759617.299, 67.71, 3.50, 4.00
** 403189.785, 3759541.797, 65.87, 3.50, 4.00
** -----
LOCATION L0000740      VOLUME  403373.895 3759654.046 68.80
LOCATION L0000741      VOLUME  403367.608 3759648.200 68.24
LOCATION L0000742      VOLUME  403361.900 3759641.779 68.19
LOCATION L0000743      VOLUME  403355.687 3759635.848 68.25
LOCATION L0000744      VOLUME  403348.563 3759631.158 68.15
LOCATION L0000745      VOLUME  403341.029 3759627.030 68.08
LOCATION L0000746      VOLUME  403333.495 3759622.902 67.96
LOCATION L0000747      VOLUME  403325.961 3759618.774 67.80
LOCATION L0000748      VOLUME  403318.463 3759614.581 67.70
LOCATION L0000749      VOLUME  403310.986 3759610.351 67.69
LOCATION L0000750      VOLUME  403303.508 3759606.122 67.65
LOCATION L0000751      VOLUME  403296.031 3759601.892 67.57
LOCATION L0000752      VOLUME  403288.553 3759597.663 67.52
LOCATION L0000753      VOLUME  403281.076 3759593.433 67.47
LOCATION L0000754      VOLUME  403273.598 3759589.204 67.42
LOCATION L0000755      VOLUME  403266.120 3759584.974 67.36
LOCATION L0000756      VOLUME  403258.643 3759580.745 67.21
LOCATION L0000757      VOLUME  403251.165 3759576.515 67.10
LOCATION L0000758      VOLUME  403243.688 3759572.286 67.02
LOCATION L0000759      VOLUME  403236.210 3759568.056 66.91
LOCATION L0000760      VOLUME  403228.733 3759563.827 66.83
LOCATION L0000761      VOLUME  403221.255 3759559.597 66.77
LOCATION L0000762      VOLUME  403213.778 3759555.368 66.73
LOCATION L0000763      VOLUME  403206.300 3759551.138 66.47
LOCATION L0000764      VOLUME  403198.823 3759546.909 66.17
LOCATION L0000765      VOLUME  403191.345 3759542.679 65.89
** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.8E-06
** Elevated

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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** -----
LOCATION L0000766    VOLUME  403385.280 3759659.813 70.03
LOCATION L0000767    VOLUME  403389.548 3759652.357 69.98
LOCATION L0000768    VOLUME  403393.816 3759644.901 70.08
LOCATION L0000769    VOLUME  403398.083 3759637.446 70.40
LOCATION L0000770    VOLUME  403402.351 3759629.990 70.43
LOCATION L0000771    VOLUME  403406.619 3759622.534 70.34
LOCATION L0000772    VOLUME  403410.886 3759615.078 70.21
LOCATION L0000773    VOLUME  403415.154 3759607.622 70.06
LOCATION L0000774    VOLUME  403419.422 3759600.167 69.93
LOCATION L0000775    VOLUME  403423.689 3759592.711 69.84
LOCATION L0000776    VOLUME  403427.957 3759585.255 69.78
LOCATION L0000777    VOLUME  403432.225 3759577.799 69.72
LOCATION L0000778    VOLUME  403436.492 3759570.343 69.64
LOCATION L0000779    VOLUME  403440.760 3759562.888 69.55
LOCATION L0000780    VOLUME  403445.028 3759555.432 69.44
LOCATION L0000781    VOLUME  403449.295 3759547.976 69.28
LOCATION L0000782    VOLUME  403453.563 3759540.520 69.16
LOCATION L0000783    VOLUME  403457.831 3759533.065 69.03
LOCATION L0000784    VOLUME  403462.098 3759525.609 68.88
LOCATION L0000785    VOLUME  403466.366 3759518.153 68.78
LOCATION L0000786    VOLUME  403470.634 3759510.697 68.77
LOCATION L0000787    VOLUME  403474.901 3759503.241 68.75
LOCATION L0000788    VOLUME  403479.169 3759495.786 68.72
LOCATION L0000789    VOLUME  403483.437 3759488.330 68.63
LOCATION L0000790    VOLUME  403487.705 3759480.874 68.52
LOCATION L0000791    VOLUME  403491.972 3759473.418 68.41
LOCATION L0000792    VOLUME  403496.240 3759465.962 68.30
LOCATION L0000793    VOLUME  403500.508 3759458.507 68.20
LOCATION L0000794    VOLUME  403504.775 3759451.051 68.09
LOCATION L0000795    VOLUME  403510.793 3759446.613 68.07
LOCATION L0000796    VOLUME  403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.99E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63

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** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00

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** -----
LOCATION L0000797      VOLUME  403528.969 3759452.019 68.52
LOCATION L0000798      VOLUME  403533.259 3759444.576 68.43
LOCATION L0000799      VOLUME  403537.549 3759437.134 68.33
LOCATION L0000800      VOLUME  403541.839 3759429.691 68.23
LOCATION L0000801      VOLUME  403546.129 3759422.248 68.12
LOCATION L0000802      VOLUME  403550.419 3759414.805 68.02
LOCATION L0000803      VOLUME  403554.709 3759407.362 67.93
LOCATION L0000804      VOLUME  403558.999 3759399.919 67.88
LOCATION L0000805      VOLUME  403563.318 3759392.492 67.86
LOCATION L0000806      VOLUME  403567.673 3759385.088 67.79
LOCATION L0000807      VOLUME  403572.029 3759377.683 67.69
LOCATION L0000808      VOLUME  403576.385 3759370.278 67.54
LOCATION L0000809      VOLUME  403580.740 3759362.873 67.43
LOCATION L0000810      VOLUME  403585.096 3759355.469 67.29
LOCATION L0000811      VOLUME  403589.452 3759348.064 67.11
LOCATION L0000812      VOLUME  403593.834 3759340.675 66.91
LOCATION L0000813      VOLUME  403598.226 3759333.291 66.71
LOCATION L0000814      VOLUME  403602.617 3759325.908 66.55
LOCATION L0000815      VOLUME  403607.009 3759318.525 66.41
LOCATION L0000816      VOLUME  403611.401 3759311.141 66.32
LOCATION L0000817      VOLUME  403615.793 3759303.758 66.26
LOCATION L0000818      VOLUME  403620.161 3759296.361 66.20
LOCATION L0000819      VOLUME  403624.410 3759288.895 66.08
LOCATION L0000820      VOLUME  403628.660 3759281.429 65.92
LOCATION L0000821      VOLUME  403632.910 3759273.963 65.87
LOCATION L0000822      VOLUME  403637.160 3759266.497 65.80
LOCATION L0000823      VOLUME  403641.410 3759259.031 65.70
LOCATION L0000824      VOLUME  403645.660 3759251.565 65.55
LOCATION L0000825      VOLUME  403649.909 3759244.099 65.38
LOCATION L0000826      VOLUME  403654.159 3759236.633 65.20
LOCATION L0000827      VOLUME  403658.409 3759229.167 65.08
LOCATION L0000828      VOLUME  403662.659 3759221.701 65.03
LOCATION L0000829      VOLUME  403666.955 3759214.262 65.06
LOCATION L0000830      VOLUME  403671.375 3759206.896 65.18
LOCATION L0000831      VOLUME  403675.795 3759199.529 65.30

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LOCATION	L0000832	VOLUME	403680.215	3759192.163	65.28
LOCATION	L0000833	VOLUME	403684.635	3759184.796	65.20
LOCATION	L0000834	VOLUME	403689.079	3759177.444	65.11
LOCATION	L0000835	VOLUME	403693.552	3759170.109	65.01
LOCATION	L0000836	VOLUME	403697.816	3759162.676	64.98
LOCATION	L0000837	VOLUME	403700.416	3759154.521	64.94
LOCATION	L0000838	VOLUME	403700.306	3759146.054	64.83
LOCATION	L0000839	VOLUME	403696.345	3759138.468	64.60
LOCATION	L0000840	VOLUME	403689.548	3759133.215	64.32
LOCATION	L0000841	VOLUME	403681.516	3759131.396	64.05
LOCATION	L0000842	VOLUME	403672.929	3759131.119	63.79
LOCATION	L0000843	VOLUME	403664.343	3759130.842	63.54
LOCATION	L0000844	VOLUME	403655.780	3759130.201	63.27
LOCATION	L0000845	VOLUME	403647.228	3759129.386	62.98
LOCATION	L0000846	VOLUME	403638.676	3759128.572	62.66
LOCATION	L0000847	VOLUME	403630.194	3759127.265	62.32
LOCATION	L0000848	VOLUME	403621.759	3759125.636	61.99
LOCATION	L0000849	VOLUME	403613.325	3759124.006	61.67
LOCATION	L0000850	VOLUME	403604.890	3759122.377	61.37
LOCATION	L0000851	VOLUME	403596.455	3759120.748	61.06
LOCATION	L0000852	VOLUME	403588.020	3759119.119	60.80
LOCATION	L0000853	VOLUME	403579.585	3759117.489	60.59
LOCATION	L0000854	VOLUME	403571.150	3759115.860	60.42
LOCATION	L0000855	VOLUME	403562.715	3759114.231	60.30
LOCATION	L0000856	VOLUME	403554.280	3759112.602	60.14
LOCATION	L0000857	VOLUME	403545.845	3759110.973	59.97
LOCATION	L0000858	VOLUME	403537.411	3759109.343	59.86
LOCATION	L0000859	VOLUME	403528.976	3759107.714	59.74
LOCATION	L0000860	VOLUME	403520.541	3759106.085	59.62
LOCATION	L0000861	VOLUME	403512.106	3759104.456	59.52
LOCATION	L0000862	VOLUME	403503.671	3759102.826	59.41
LOCATION	L0000863	VOLUME	403495.236	3759101.197	59.29
LOCATION	L0000864	VOLUME	403486.801	3759099.568	59.11
LOCATION	L0000865	VOLUME	403478.366	3759097.939	58.94
LOCATION	L0000866	VOLUME	403469.931	3759096.310	58.75
LOCATION	L0000867	VOLUME	403461.496	3759094.680	58.50
LOCATION	L0000868	VOLUME	403453.062	3759093.051	58.26
LOCATION	L0000869	VOLUME	403444.627	3759091.422	58.02
LOCATION	L0000870	VOLUME	403436.192	3759089.793	57.76
LOCATION	L0000871	VOLUME	403427.757	3759088.163	57.55
LOCATION	L0000872	VOLUME	403419.322	3759086.534	57.37
LOCATION	L0000873	VOLUME	403410.887	3759084.905	57.32
LOCATION	L0000874	VOLUME	403402.452	3759083.276	57.24
LOCATION	L0000875	VOLUME	403394.017	3759081.647	57.13
LOCATION	L0000876	VOLUME	403385.582	3759080.017	57.09
LOCATION	L0000877	VOLUME	403377.147	3759078.388	57.03
LOCATION	L0000878	VOLUME	403368.713	3759076.759	56.95
LOCATION	L0000879	VOLUME	403360.278	3759075.130	56.89
LOCATION	L0000880	VOLUME	403351.843	3759073.500	56.84
LOCATION	L0000881	VOLUME	403343.408	3759071.871	56.78
LOCATION	L0000882	VOLUME	403334.973	3759070.242	56.72

LOCATION	VOLUME				
L0000883	403326.538	3759068.613	56.65		
L0000884	403318.103	3759066.984	56.57		
L0000885	403309.668	3759065.354	56.37		
L0000886	403301.233	3759063.725	56.17		
L0000887	403292.799	3759062.096	55.97		
L0000888	403284.364	3759060.467	55.70		
L0000889	403275.929	3759058.837	55.41		
L0000890	403267.494	3759057.208	55.13		
L0000891	403259.059	3759055.579	54.93		
L0000892	403250.624	3759053.950	54.75		
L0000893	403242.189	3759052.321	54.55		
L0000894	403233.754	3759050.691	54.50		
L0000895	403225.319	3759049.062	54.47		
L0000896	403216.884	3759047.433	54.40		
L0000897	403208.450	3759045.804	54.23		
L0000898	403200.015	3759044.174	54.01		
L0000899	403191.580	3759042.545	53.80		
L0000900	403183.145	3759040.916	53.54		
L0000901	403174.710	3759039.287	53.26		
L0000902	403166.275	3759037.658	53.01		
L0000903	403157.840	3759036.028	52.81		
L0000904	403149.405	3759034.399	52.62		
L0000905	403140.970	3759032.770	52.43		
L0000906	403132.535	3759031.141	52.25		

** End of LINE VOLUME Source ID = SLINE3

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE4

** DESCRSRC Northbound along Whitter Blvd

** PREFIX

** Length of Side = 10.11

** Configuration = Adjacent

** Emission Rate = 5.71E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 7

** 403541.907, 3759460.234, 69.09, 3.50, 4.70

** 403548.291, 3759465.199, 69.37, 3.50, 4.70

** 403540.134, 3759487.187, 69.75, 3.50, 4.70

** 403492.611, 3759570.175, 70.72, 3.50, 4.70

** 403452.890, 3759640.041, 71.88, 3.50, 4.70

** 403398.984, 3759724.801, 72.44, 3.50, 4.70

** 403007.874, 3760386.371, 71.03, 3.50, 4.70

** -----

LOCATION	VOLUME				
L0000907	403545.899	3759463.339	69.32		
L0000908	403545.826	3759471.842	69.48		
L0000909	403542.308	3759481.325	69.66		
L0000910	403538.215	3759490.539	69.93		
L0000911	403533.188	3759499.317	70.12		
L0000912	403528.162	3759508.094	70.18		

LOCATION	L0000913	VOLUME	403523.135	3759516.871	70.13
LOCATION	L0000914	VOLUME	403518.109	3759525.649	70.26
LOCATION	L0000915	VOLUME	403513.082	3759534.426	70.53
LOCATION	L0000916	VOLUME	403508.056	3759543.204	70.83
LOCATION	L0000917	VOLUME	403503.030	3759551.981	71.13
LOCATION	L0000918	VOLUME	403498.003	3759560.759	71.07
LOCATION	L0000919	VOLUME	403492.977	3759569.536	71.01
LOCATION	L0000920	VOLUME	403487.976	3759578.328	70.99
LOCATION	L0000921	VOLUME	403482.977	3759587.121	71.05
LOCATION	L0000922	VOLUME	403477.977	3759595.914	71.14
LOCATION	L0000923	VOLUME	403472.978	3759604.708	71.24
LOCATION	L0000924	VOLUME	403467.979	3759613.501	71.43
LOCATION	L0000925	VOLUME	403462.980	3759622.294	71.63
LOCATION	L0000926	VOLUME	403457.981	3759631.087	71.77
LOCATION	L0000927	VOLUME	403452.982	3759639.880	71.85
LOCATION	L0000928	VOLUME	403447.562	3759648.419	71.87
LOCATION	L0000929	VOLUME	403442.134	3759656.954	71.94
LOCATION	L0000930	VOLUME	403436.705	3759665.489	72.05
LOCATION	L0000931	VOLUME	403431.277	3759674.024	72.20
LOCATION	L0000932	VOLUME	403425.849	3759682.559	72.31
LOCATION	L0000933	VOLUME	403420.421	3759691.094	72.30
LOCATION	L0000934	VOLUME	403414.993	3759699.629	72.34
LOCATION	L0000935	VOLUME	403409.565	3759708.164	72.42
LOCATION	L0000936	VOLUME	403404.137	3759716.699	72.47
LOCATION	L0000937	VOLUME	403398.723	3759725.243	72.48
LOCATION	L0000938	VOLUME	403393.576	3759733.950	72.47
LOCATION	L0000939	VOLUME	403388.428	3759742.657	72.44
LOCATION	L0000940	VOLUME	403383.281	3759751.364	72.37
LOCATION	L0000941	VOLUME	403378.133	3759760.071	72.29
LOCATION	L0000942	VOLUME	403372.986	3759768.778	72.20
LOCATION	L0000943	VOLUME	403367.838	3759777.485	72.12
LOCATION	L0000944	VOLUME	403362.691	3759786.192	72.06
LOCATION	L0000945	VOLUME	403357.543	3759794.899	72.03
LOCATION	L0000946	VOLUME	403352.396	3759803.606	72.02
LOCATION	L0000947	VOLUME	403347.248	3759812.313	71.99
LOCATION	L0000948	VOLUME	403342.101	3759821.020	71.94
LOCATION	L0000949	VOLUME	403336.953	3759829.727	71.89
LOCATION	L0000950	VOLUME	403331.806	3759838.434	71.81
LOCATION	L0000951	VOLUME	403326.658	3759847.141	71.78
LOCATION	L0000952	VOLUME	403321.511	3759855.848	71.74
LOCATION	L0000953	VOLUME	403316.364	3759864.555	71.66
LOCATION	L0000954	VOLUME	403311.216	3759873.262	71.53
LOCATION	L0000955	VOLUME	403306.069	3759881.969	71.43
LOCATION	L0000956	VOLUME	403300.921	3759890.677	71.36
LOCATION	L0000957	VOLUME	403295.774	3759899.384	71.35
LOCATION	L0000958	VOLUME	403290.626	3759908.091	71.32
LOCATION	L0000959	VOLUME	403285.479	3759916.798	71.27
LOCATION	L0000960	VOLUME	403280.331	3759925.505	71.20
LOCATION	L0000961	VOLUME	403275.184	3759934.212	71.19
LOCATION	L0000962	VOLUME	403270.036	3759942.919	71.22
LOCATION	L0000963	VOLUME	403264.889	3759951.626	71.20

LOCATION	L0000964	VOLUME	403259.741	3759960.333	71.10
LOCATION	L0000965	VOLUME	403254.594	3759969.040	71.01
LOCATION	L0000966	VOLUME	403249.446	3759977.747	70.98
LOCATION	L0000967	VOLUME	403244.299	3759986.454	70.96
LOCATION	L0000968	VOLUME	403239.151	3759995.161	70.92
LOCATION	L0000969	VOLUME	403234.004	3760003.868	70.88
LOCATION	L0000970	VOLUME	403228.856	3760012.575	70.84
LOCATION	L0000971	VOLUME	403223.709	3760021.282	70.80
LOCATION	L0000972	VOLUME	403218.561	3760029.989	70.75
LOCATION	L0000973	VOLUME	403213.414	3760038.696	70.67
LOCATION	L0000974	VOLUME	403208.267	3760047.403	70.56
LOCATION	L0000975	VOLUME	403203.119	3760056.110	70.47
LOCATION	L0000976	VOLUME	403197.972	3760064.817	70.46
LOCATION	L0000977	VOLUME	403192.824	3760073.525	70.49
LOCATION	L0000978	VOLUME	403187.677	3760082.232	70.47
LOCATION	L0000979	VOLUME	403182.529	3760090.939	70.45
LOCATION	L0000980	VOLUME	403177.382	3760099.646	70.42
LOCATION	L0000981	VOLUME	403172.234	3760108.353	70.40
LOCATION	L0000982	VOLUME	403167.087	3760117.060	70.47
LOCATION	L0000983	VOLUME	403161.939	3760125.767	70.47
LOCATION	L0000984	VOLUME	403156.792	3760134.474	70.40
LOCATION	L0000985	VOLUME	403151.644	3760143.181	70.29
LOCATION	L0000986	VOLUME	403146.497	3760151.888	70.32
LOCATION	L0000987	VOLUME	403141.349	3760160.595	70.34
LOCATION	L0000988	VOLUME	403136.202	3760169.302	70.30
LOCATION	L0000989	VOLUME	403131.054	3760178.009	70.19
LOCATION	L0000990	VOLUME	403125.907	3760186.716	70.07
LOCATION	L0000991	VOLUME	403120.759	3760195.423	69.98
LOCATION	L0000992	VOLUME	403115.612	3760204.130	69.95
LOCATION	L0000993	VOLUME	403110.464	3760212.837	70.08
LOCATION	L0000994	VOLUME	403105.317	3760221.544	70.15
LOCATION	L0000995	VOLUME	403100.170	3760230.251	70.18
LOCATION	L0000996	VOLUME	403095.022	3760238.958	70.24
LOCATION	L0000997	VOLUME	403089.875	3760247.665	70.34
LOCATION	L0000998	VOLUME	403084.727	3760256.373	70.40
LOCATION	L0000999	VOLUME	403079.580	3760265.080	70.43
LOCATION	L0001000	VOLUME	403074.432	3760273.787	70.55
LOCATION	L0001001	VOLUME	403069.285	3760282.494	70.74
LOCATION	L0001002	VOLUME	403064.137	3760291.201	70.91
LOCATION	L0001003	VOLUME	403058.990	3760299.908	71.04
LOCATION	L0001004	VOLUME	403053.842	3760308.615	71.16
LOCATION	L0001005	VOLUME	403048.695	3760317.322	71.30
LOCATION	L0001006	VOLUME	403043.547	3760326.029	71.36
LOCATION	L0001007	VOLUME	403038.400	3760334.736	71.25
LOCATION	L0001008	VOLUME	403033.252	3760343.443	71.12
LOCATION	L0001009	VOLUME	403028.105	3760352.150	70.98
LOCATION	L0001010	VOLUME	403022.957	3760360.857	70.90
LOCATION	L0001011	VOLUME	403017.810	3760369.564	71.03
LOCATION	L0001012	VOLUME	403012.662	3760378.271	71.07

** End of LINE VOLUME Source ID = SLINE4

** Source Parameters **

SRCPARAM	STCK1	7.42E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK2	7.42E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK3	7.42E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK4	7.42E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK5	7.42E-06	3.500	366.000	51.9	0.1
**	LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0000740	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000741	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000742	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000743	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000744	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000745	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000746	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000747	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000748	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000749	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000750	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000751	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000752	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000753	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000754	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000755	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000756	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000757	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000758	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000759	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000760	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000761	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000762	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000763	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000764	0.0000001623	3.50	4.00	4.96	
SRCPARAM	L0000765	0.0000001623	3.50	4.00	4.96	
**	-----					
**	LINE VOLUME Source ID = SLINE2					
SRCPARAM	L0000766	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000767	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000768	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000769	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000770	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000771	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000772	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000773	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000774	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000775	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000776	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000777	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000778	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000779	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000780	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000781	0.00000009032	3.50	4.00	1.63	
SRCPARAM	L0000782	0.00000009032	3.50	4.00	1.63	

SRCPARAM	L0000783	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000784	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000785	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000786	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000787	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000788	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000789	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000790	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000791	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000792	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000793	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000794	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000795	0.00000009032	3.50	4.00	1.63
SRCPARAM	L0000796	0.00000009032	3.50	4.00	1.63

**

 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0000797	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000798	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000799	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000800	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000801	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000802	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000803	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000804	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000805	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000806	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000807	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000808	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000809	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000810	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000811	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000812	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000813	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000814	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000815	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000816	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000817	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000818	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000819	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000820	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000821	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000822	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000823	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000824	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000825	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000826	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000827	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000828	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000829	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000830	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000831	0.00000004536	3.50	4.00	1.63

SRCPARAM	L0000883	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000884	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000885	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000886	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000887	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000888	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000889	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000890	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000891	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000892	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000893	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000894	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000895	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000896	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000897	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000898	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000899	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000900	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000901	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000902	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000903	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000904	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000905	0.00000004536	3.50	4.00	1.63
SRCPARAM	L0000906	0.00000004536	3.50	4.00	1.63

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** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000907	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000908	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000909	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000910	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000911	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000912	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000913	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000914	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000915	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000916	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000917	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000918	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000919	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000920	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000921	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000922	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000923	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000924	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000925	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000926	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000927	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000928	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000929	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000930	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000931	0.00000005387	3.50	4.70	1.63

SRCPARAM	L0000983	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000984	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000985	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000986	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000987	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000988	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000989	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000990	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000991	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000992	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000993	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000994	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000995	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000996	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000997	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000998	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0000999	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001000	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001001	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001002	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001003	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001004	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001005	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001006	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001007	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001008	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001009	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001010	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001011	0.00000005387	3.50	4.70	1.63
SRCPARAM	L0001012	0.00000005387	3.50	4.70	1.63

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** Building Downwash **

BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67

BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66

BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
XBADJ	STCK1	-18.55	-25.03	-30.75	-35.54	-39.24	-41.98
XBADJ	STCK1	-50.16	-56.82	-61.76	-77.50	-92.58	-104.85
XBADJ	STCK1	-113.93	-119.55	-121.54	-151.31	-178.11	-199.50
XBADJ	STCK1	-214.83	-225.08	-228.50	-224.98	-214.62	-201.31
XBADJ	STCK1	-196.71	-186.13	-169.90	-148.51	-122.60	-93.84
XBADJ	STCK1	-64.84	-33.87	-2.58	3.41	-4.11	-11.50
XBADJ	STCK2	-61.85	-77.35	-90.51	-100.91	-108.25	-112.51
XBADJ	STCK2	-120.08	-124.01	-124.17	-133.23	-139.95	-142.41
XBADJ	STCK2	-140.55	-134.41	-124.20	-141.67	-156.48	-166.53
XBADJ	STCK2	-171.52	-172.76	-168.74	-159.61	-145.62	-130.77
XBADJ	STCK2	-126.79	-118.94	-107.49	-92.77	-75.23	-56.27
XBADJ	STCK2	-38.22	-19.01	0.07	-6.22	-25.74	-44.47
XBADJ	STCK3	-31.60	-41.18	-49.50	-56.31	-61.42	-64.88

XBADJ	STCK3	-73.09	-79.09	-82.68	-96.44	-108.96	-118.18
XBADJ	STCK3	-123.81	-125.67	-123.72	-149.47	-172.32	-189.93
XBADJ	STCK3	-201.77	-208.94	-209.75	-204.20	-192.44	-178.41
XBADJ	STCK3	-173.78	-163.87	-148.98	-129.57	-106.21	-80.50
XBADJ	STCK3	-54.96	-27.75	-0.41	1.58	-9.90	-21.07
XBADJ	STCK4	-84.78	-104.42	-120.88	-133.68	-142.41	-147.03
XBADJ	STCK4	-153.92	-156.13	-153.59	-159.07	-161.41	-158.85
XBADJ	STCK4	-151.46	-139.47	-123.24	-134.73	-143.77	-148.44
XBADJ	STCK4	-148.60	-145.70	-138.37	-126.84	-111.45	-96.25
XBADJ	STCK4	-92.95	-86.83	-78.07	-66.94	-53.77	-39.84
XBADJ	STCK4	-27.31	-13.95	-0.88	-13.16	-38.44	-62.56
XBADJ	STCK5	-97.03	-123.24	-145.70	-163.73	0.00	0.00
XBADJ	STCK5	-193.72	-196.86	-194.01	-197.95	-197.57	-191.19
XBADJ	STCK5	-179.00	-161.37	-138.84	-143.56	-145.55	-143.12
XBADJ	STCK5	-136.34	-126.87	-113.55	-96.78	0.00	0.00
XBADJ	STCK5	-53.15	-46.10	-37.65	-28.06	-17.61	-7.49
XBADJ	STCK5	0.23	7.95	14.72	-4.33	-36.66	-67.88
YBADJ	STCK1	-35.50	-15.01	5.51	24.55	42.84	59.48
YBADJ	STCK1	77.36	87.00	94.00	98.14	100.03	98.88
YBADJ	STCK1	94.72	87.69	79.67	73.27	64.65	54.07
YBADJ	STCK1	35.50	15.01	-5.51	-24.55	-42.84	-59.48
YBADJ	STCK1	-77.36	-87.00	-94.00	-98.14	-100.03	-98.88
YBADJ	STCK1	-94.72	-87.69	-79.67	-73.27	-64.65	-54.07
YBADJ	STCK2	20.23	32.36	43.07	51.16	57.70	62.13
YBADJ	STCK2	67.72	65.37	61.03	54.84	47.70	39.12
YBADJ	STCK2	29.35	18.69	9.13	3.35	-2.53	-8.34
YBADJ	STCK2	-20.23	-32.36	-43.07	-51.16	-57.70	-62.13
YBADJ	STCK2	-67.72	-65.37	-61.03	-54.84	-47.70	-39.12
YBADJ	STCK2	-29.35	-18.69	-9.13	-3.35	2.53	8.34
YBADJ	STCK3	-16.56	1.38	18.84	34.42	48.96	61.65
YBADJ	STCK3	75.52	81.21	84.43	85.08	83.88	80.13
YBADJ	STCK3	73.94	65.51	56.76	50.34	42.39	33.15
YBADJ	STCK3	16.56	-1.38	-18.84	-34.42	-48.96	-61.65
YBADJ	STCK3	-75.52	-81.21	-84.43	-85.08	-83.88	-80.13
YBADJ	STCK3	-73.94	-65.51	-56.76	-50.34	-42.39	-33.15
YBADJ	STCK4	46.06	53.82	59.50	62.07	62.76	61.18
YBADJ	STCK4	60.79	52.66	42.94	31.91	20.64	8.74
YBADJ	STCK4	-3.42	-15.48	-25.39	-30.48	-34.65	-37.76
YBADJ	STCK4	-46.06	-53.82	-59.50	-62.07	-62.76	-61.18
YBADJ	STCK4	-60.79	-52.66	-42.94	-31.91	-20.64	-8.74
YBADJ	STCK4	3.42	15.48	25.39	30.48	34.65	37.76
YBADJ	STCK5	84.95	89.98	91.85	89.62	0.00	0.00
YBADJ	STCK5	69.61	54.44	37.62	19.65	1.82	-16.07
YBADJ	STCK5	-33.48	-49.86	-63.06	-70.28	-75.38	-78.18

YBADJ	STCK5	-84.95	-89.98	-91.85	-89.62	0.00	0.00
YBADJ	STCK5	-69.61	-54.44	-37.62	-19.65	-1.82	16.07
YBADJ	STCK5	33.48	49.86	63.06	70.28	75.38	78.18

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**
**

RE STARTING
INCLUDED "19391 Whittier Blvd BP 2YR.rou"

RE FINISHED
**

** AERMOD Meteorology Pathway

**
**

ME STARTING
SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"
PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"
SURFDATA 3166 2010
UAIRDATA 3190 2010
SITEDATA 99999 2010
PROFBASE 58.0 METERS

ME FINISHED
**

** AERMOD Output Pathway

**
**

OU STARTING
** Auto-Generated Plotfiles
PLOTFILE PERIOD ALL "19391 WHITTIER BLVD BP 2YR.AD\PE00GALL.PLT" 31
SUMMFILE "19391 Whittier Blvd BP 2YR.sum"

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	7 Warning Message(s)
A Total of	0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 22112 ***	*** 19391 Whittier Blvd BP	***	06/26/23
*** AERMET - VERSION 16216 ***	*** DPM Concentrations 2YR 2025-2026	***	18:34:15
			PAGE 1

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 278 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * 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: 278 Source(s); 1 Source Group(s); and 450 Receptor(s)

```

with:      5 POINT(s), including
           0 POINTCAP(s) and    0 POINTHOR(s)
and:      273 VOLUME source(s)
and:      0 AREA type source(s)
and:      0 LINE source(s)
and:      0 RLINE/RLINEXT source(s)
and:      0 OPENPIT source(s)
and:      0 BUOYANT LINE source(s) with a total of    0 line(s)
and:      0 SWPOINT source(s)

```

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 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)

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**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) = 58.00 ; 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 = 4.0 MB of RAM.

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

**Detailed Error/Message File: 19391 Whittier Blvd BP 2YR.err
**File for Summary of Results: 19391 Whittier Blvd BP 2YR.sum

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*** AERMOD - VERSION 22112 ***    *** 19391 Whittier Blvd BP ***           *** 06/26/23
*** AERMET - VERSION 16216 ***    *** DPM Concentrations 2YR 2025-2026 *** *** 18:34:15
*** MODELOPTs:  RegDEFAULT CONC ELEV URBAN ADJ_U* ***                       *** PAGE 2

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*** 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	0.74200E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	

STCK2	0	0.74200E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO
STCK3	0	0.74200E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO
STCK4	0	0.74200E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO
STCK5	0	0.74200E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026 ***
 06/26/23
 18:34:15
 PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000740	0	0.16230E-06	403373.9	3759654.0	68.8	3.50	4.00	4.96	YES	
L0000741	0	0.16230E-06	403367.6	3759648.2	68.2	3.50	4.00	4.96	YES	
L0000742	0	0.16230E-06	403361.9	3759641.8	68.2	3.50	4.00	4.96	YES	
L0000743	0	0.16230E-06	403355.7	3759635.8	68.2	3.50	4.00	4.96	YES	
L0000744	0	0.16230E-06	403348.6	3759631.2	68.1	3.50	4.00	4.96	YES	
L0000745	0	0.16230E-06	403341.0	3759627.0	68.1	3.50	4.00	4.96	YES	
L0000746	0	0.16230E-06	403333.5	3759622.9	68.0	3.50	4.00	4.96	YES	
L0000747	0	0.16230E-06	403326.0	3759618.8	67.8	3.50	4.00	4.96	YES	
L0000748	0	0.16230E-06	403318.5	3759614.6	67.7	3.50	4.00	4.96	YES	
L0000749	0	0.16230E-06	403311.0	3759610.4	67.7	3.50	4.00	4.96	YES	
L0000750	0	0.16230E-06	403303.5	3759606.1	67.6	3.50	4.00	4.96	YES	
L0000751	0	0.16230E-06	403296.0	3759601.9	67.6	3.50	4.00	4.96	YES	
L0000752	0	0.16230E-06	403288.6	3759597.7	67.5	3.50	4.00	4.96	YES	
L0000753	0	0.16230E-06	403281.1	3759593.4	67.5	3.50	4.00	4.96	YES	
L0000754	0	0.16230E-06	403273.6	3759589.2	67.4	3.50	4.00	4.96	YES	
L0000755	0	0.16230E-06	403266.1	3759585.0	67.4	3.50	4.00	4.96	YES	
L0000756	0	0.16230E-06	403258.6	3759580.7	67.2	3.50	4.00	4.96	YES	
L0000757	0	0.16230E-06	403251.2	3759576.5	67.1	3.50	4.00	4.96	YES	
L0000758	0	0.16230E-06	403243.7	3759572.3	67.0	3.50	4.00	4.96	YES	
L0000759	0	0.16230E-06	403236.2	3759568.1	66.9	3.50	4.00	4.96	YES	
L0000760	0	0.16230E-06	403228.7	3759563.8	66.8	3.50	4.00	4.96	YES	
L0000761	0	0.16230E-06	403221.3	3759559.6	66.8	3.50	4.00	4.96	YES	
L0000762	0	0.16230E-06	403213.8	3759555.4	66.7	3.50	4.00	4.96	YES	
L0000763	0	0.16230E-06	403206.3	3759551.1	66.5	3.50	4.00	4.96	YES	
L0000764	0	0.16230E-06	403198.8	3759546.9	66.2	3.50	4.00	4.96	YES	
L0000765	0	0.16230E-06	403191.3	3759542.7	65.9	3.50	4.00	4.96	YES	
L0000766	0	0.90320E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	
L0000767	0	0.90320E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES	
L0000768	0	0.90320E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES	
L0000769	0	0.90320E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES	
L0000770	0	0.90320E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES	
L0000771	0	0.90320E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES	
L0000772	0	0.90320E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES	

L0000773	0	0.90320E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0000774	0	0.90320E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0000775	0	0.90320E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0000776	0	0.90320E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0000777	0	0.90320E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0000778	0	0.90320E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0000779	0	0.90320E-07	403440.8	3759562.9	69.5	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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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
L0000780	0	0.90320E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0000781	0	0.90320E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0000782	0	0.90320E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0000783	0	0.90320E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0000784	0	0.90320E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0000785	0	0.90320E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0000786	0	0.90320E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0000787	0	0.90320E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0000788	0	0.90320E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0000789	0	0.90320E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0000790	0	0.90320E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0000791	0	0.90320E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0000792	0	0.90320E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0000793	0	0.90320E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0000794	0	0.90320E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0000795	0	0.90320E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0000796	0	0.90320E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0000797	0	0.45360E-07	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0000798	0	0.45360E-07	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0000799	0	0.45360E-07	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0000800	0	0.45360E-07	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0000801	0	0.45360E-07	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0000802	0	0.45360E-07	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0000803	0	0.45360E-07	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	
L0000804	0	0.45360E-07	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES	
L0000805	0	0.45360E-07	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES	
L0000806	0	0.45360E-07	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES	
L0000807	0	0.45360E-07	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES	
L0000808	0	0.45360E-07	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES	
L0000809	0	0.45360E-07	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES	

L0000810	0	0.45360E-07	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0000811	0	0.45360E-07	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0000812	0	0.45360E-07	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0000813	0	0.45360E-07	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0000814	0	0.45360E-07	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0000815	0	0.45360E-07	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0000816	0	0.45360E-07	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0000817	0	0.45360E-07	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0000818	0	0.45360E-07	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0000819	0	0.45360E-07	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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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	RELEASE	INIT.	INIT.	URBAN SOURCE	EMISSION RATE
					ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)		SCALAR VARY BY
L0000820	0	0.45360E-07	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES	
L0000821	0	0.45360E-07	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES	
L0000822	0	0.45360E-07	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES	
L0000823	0	0.45360E-07	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES	
L0000824	0	0.45360E-07	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES	
L0000825	0	0.45360E-07	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES	
L0000826	0	0.45360E-07	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES	
L0000827	0	0.45360E-07	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES	
L0000828	0	0.45360E-07	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES	
L0000829	0	0.45360E-07	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES	
L0000830	0	0.45360E-07	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES	
L0000831	0	0.45360E-07	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES	
L0000832	0	0.45360E-07	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES	
L0000833	0	0.45360E-07	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES	
L0000834	0	0.45360E-07	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES	
L0000835	0	0.45360E-07	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES	
L0000836	0	0.45360E-07	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES	
L0000837	0	0.45360E-07	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES	
L0000838	0	0.45360E-07	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES	
L0000839	0	0.45360E-07	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES	
L0000840	0	0.45360E-07	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES	
L0000841	0	0.45360E-07	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES	
L0000842	0	0.45360E-07	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES	
L0000843	0	0.45360E-07	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES	
L0000844	0	0.45360E-07	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES	
L0000845	0	0.45360E-07	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES	
L0000846	0	0.45360E-07	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES	

L0000847	0	0.45360E-07	403630.2	3759127.3	62.3	3.50	4.00	1.63	YES
L0000848	0	0.45360E-07	403621.8	3759125.6	62.0	3.50	4.00	1.63	YES
L0000849	0	0.45360E-07	403613.3	3759124.0	61.7	3.50	4.00	1.63	YES
L0000850	0	0.45360E-07	403604.9	3759122.4	61.4	3.50	4.00	1.63	YES
L0000851	0	0.45360E-07	403596.5	3759120.7	61.1	3.50	4.00	1.63	YES
L0000852	0	0.45360E-07	403588.0	3759119.1	60.8	3.50	4.00	1.63	YES
L0000853	0	0.45360E-07	403579.6	3759117.5	60.6	3.50	4.00	1.63	YES
L0000854	0	0.45360E-07	403571.1	3759115.9	60.4	3.50	4.00	1.63	YES
L0000855	0	0.45360E-07	403562.7	3759114.2	60.3	3.50	4.00	1.63	YES
L0000856	0	0.45360E-07	403554.3	3759112.6	60.1	3.50	4.00	1.63	YES
L0000857	0	0.45360E-07	403545.8	3759111.0	60.0	3.50	4.00	1.63	YES
L0000858	0	0.45360E-07	403537.4	3759109.3	59.9	3.50	4.00	1.63	YES
L0000859	0	0.45360E-07	403529.0	3759107.7	59.7	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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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)						
L0000860	0	0.45360E-07	403520.5	3759106.1	59.6	3.50	4.00	1.63	YES	
L0000861	0	0.45360E-07	403512.1	3759104.5	59.5	3.50	4.00	1.63	YES	
L0000862	0	0.45360E-07	403503.7	3759102.8	59.4	3.50	4.00	1.63	YES	
L0000863	0	0.45360E-07	403495.2	3759101.2	59.3	3.50	4.00	1.63	YES	
L0000864	0	0.45360E-07	403486.8	3759099.6	59.1	3.50	4.00	1.63	YES	
L0000865	0	0.45360E-07	403478.4	3759097.9	58.9	3.50	4.00	1.63	YES	
L0000866	0	0.45360E-07	403469.9	3759096.3	58.8	3.50	4.00	1.63	YES	
L0000867	0	0.45360E-07	403461.5	3759094.7	58.5	3.50	4.00	1.63	YES	
L0000868	0	0.45360E-07	403453.1	3759093.1	58.3	3.50	4.00	1.63	YES	
L0000869	0	0.45360E-07	403444.6	3759091.4	58.0	3.50	4.00	1.63	YES	
L0000870	0	0.45360E-07	403436.2	3759089.8	57.8	3.50	4.00	1.63	YES	
L0000871	0	0.45360E-07	403427.8	3759088.2	57.5	3.50	4.00	1.63	YES	
L0000872	0	0.45360E-07	403419.3	3759086.5	57.4	3.50	4.00	1.63	YES	
L0000873	0	0.45360E-07	403410.9	3759084.9	57.3	3.50	4.00	1.63	YES	
L0000874	0	0.45360E-07	403402.5	3759083.3	57.2	3.50	4.00	1.63	YES	
L0000875	0	0.45360E-07	403394.0	3759081.6	57.1	3.50	4.00	1.63	YES	
L0000876	0	0.45360E-07	403385.6	3759080.0	57.1	3.50	4.00	1.63	YES	
L0000877	0	0.45360E-07	403377.1	3759078.4	57.0	3.50	4.00	1.63	YES	
L0000878	0	0.45360E-07	403368.7	3759076.8	56.9	3.50	4.00	1.63	YES	
L0000879	0	0.45360E-07	403360.3	3759075.1	56.9	3.50	4.00	1.63	YES	
L0000880	0	0.45360E-07	403351.8	3759073.5	56.8	3.50	4.00	1.63	YES	
L0000881	0	0.45360E-07	403343.4	3759071.9	56.8	3.50	4.00	1.63	YES	
L0000882	0	0.45360E-07	403335.0	3759070.2	56.7	3.50	4.00	1.63	YES	
L0000883	0	0.45360E-07	403326.5	3759068.6	56.6	3.50	4.00	1.63	YES	

L0000884	0	0.45360E-07	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0000885	0	0.45360E-07	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0000886	0	0.45360E-07	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0000887	0	0.45360E-07	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0000888	0	0.45360E-07	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0000889	0	0.45360E-07	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0000890	0	0.45360E-07	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0000891	0	0.45360E-07	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0000892	0	0.45360E-07	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0000893	0	0.45360E-07	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0000894	0	0.45360E-07	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0000895	0	0.45360E-07	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0000896	0	0.45360E-07	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0000897	0	0.45360E-07	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0000898	0	0.45360E-07	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0000899	0	0.45360E-07	403191.6	3759042.5	53.8	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER 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
L0000900	0	0.45360E-07	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0000901	0	0.45360E-07	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0000902	0	0.45360E-07	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0000903	0	0.45360E-07	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0000904	0	0.45360E-07	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0000905	0	0.45360E-07	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0000906	0	0.45360E-07	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0000907	0	0.53870E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0000908	0	0.53870E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0000909	0	0.53870E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0000910	0	0.53870E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0000911	0	0.53870E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0000912	0	0.53870E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0000913	0	0.53870E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0000914	0	0.53870E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	
L0000915	0	0.53870E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES	
L0000916	0	0.53870E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES	
L0000917	0	0.53870E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES	
L0000918	0	0.53870E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES	
L0000919	0	0.53870E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES	
L0000920	0	0.53870E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES	

L0000921	0	0.53870E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0000922	0	0.53870E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0000923	0	0.53870E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0000924	0	0.53870E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0000925	0	0.53870E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0000926	0	0.53870E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0000927	0	0.53870E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0000928	0	0.53870E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0000929	0	0.53870E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0000930	0	0.53870E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0000931	0	0.53870E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0000932	0	0.53870E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0000933	0	0.53870E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0000934	0	0.53870E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0000935	0	0.53870E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0000936	0	0.53870E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0000937	0	0.53870E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0000938	0	0.53870E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0000939	0	0.53870E-07	403388.4	3759742.7	72.4	3.50	4.70	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
*** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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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
L0000940	0	0.53870E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0000941	0	0.53870E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0000942	0	0.53870E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0000943	0	0.53870E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0000944	0	0.53870E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0000945	0	0.53870E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0000946	0	0.53870E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0000947	0	0.53870E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0000948	0	0.53870E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0000949	0	0.53870E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0000950	0	0.53870E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0000951	0	0.53870E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	
L0000952	0	0.53870E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES	
L0000953	0	0.53870E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES	
L0000954	0	0.53870E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES	
L0000955	0	0.53870E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES	
L0000956	0	0.53870E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES	
L0000957	0	0.53870E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES	

L0000958	0	0.53870E-07	403290.6	3759908.1	71.3	3.50	4.70	1.63	YES
L0000959	0	0.53870E-07	403285.5	3759916.8	71.3	3.50	4.70	1.63	YES
L0000960	0	0.53870E-07	403280.3	3759925.5	71.2	3.50	4.70	1.63	YES
L0000961	0	0.53870E-07	403275.2	3759934.2	71.2	3.50	4.70	1.63	YES
L0000962	0	0.53870E-07	403270.0	3759942.9	71.2	3.50	4.70	1.63	YES
L0000963	0	0.53870E-07	403264.9	3759951.6	71.2	3.50	4.70	1.63	YES
L0000964	0	0.53870E-07	403259.7	3759960.3	71.1	3.50	4.70	1.63	YES
L0000965	0	0.53870E-07	403254.6	3759969.0	71.0	3.50	4.70	1.63	YES
L0000966	0	0.53870E-07	403249.4	3759977.7	71.0	3.50	4.70	1.63	YES
L0000967	0	0.53870E-07	403244.3	3759986.5	71.0	3.50	4.70	1.63	YES
L0000968	0	0.53870E-07	403239.2	3759995.2	70.9	3.50	4.70	1.63	YES
L0000969	0	0.53870E-07	403234.0	3760003.9	70.9	3.50	4.70	1.63	YES
L0000970	0	0.53870E-07	403228.9	3760012.6	70.8	3.50	4.70	1.63	YES
L0000971	0	0.53870E-07	403223.7	3760021.3	70.8	3.50	4.70	1.63	YES
L0000972	0	0.53870E-07	403218.6	3760030.0	70.8	3.50	4.70	1.63	YES
L0000973	0	0.53870E-07	403213.4	3760038.7	70.7	3.50	4.70	1.63	YES
L0000974	0	0.53870E-07	403208.3	3760047.4	70.6	3.50	4.70	1.63	YES
L0000975	0	0.53870E-07	403203.1	3760056.1	70.5	3.50	4.70	1.63	YES
L0000976	0	0.53870E-07	403198.0	3760064.8	70.5	3.50	4.70	1.63	YES
L0000977	0	0.53870E-07	403192.8	3760073.5	70.5	3.50	4.70	1.63	YES
L0000978	0	0.53870E-07	403187.7	3760082.2	70.5	3.50	4.70	1.63	YES
L0000979	0	0.53870E-07	403182.5	3760090.9	70.5	3.50	4.70	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
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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)						
L0000980	0	0.53870E-07	403177.4	3760099.6	70.4	3.50	4.70	1.63	YES	
L0000981	0	0.53870E-07	403172.2	3760108.4	70.4	3.50	4.70	1.63	YES	
L0000982	0	0.53870E-07	403167.1	3760117.1	70.5	3.50	4.70	1.63	YES	
L0000983	0	0.53870E-07	403161.9	3760125.8	70.5	3.50	4.70	1.63	YES	
L0000984	0	0.53870E-07	403156.8	3760134.5	70.4	3.50	4.70	1.63	YES	
L0000985	0	0.53870E-07	403151.6	3760143.2	70.3	3.50	4.70	1.63	YES	
L0000986	0	0.53870E-07	403146.5	3760151.9	70.3	3.50	4.70	1.63	YES	
L0000987	0	0.53870E-07	403141.3	3760160.6	70.3	3.50	4.70	1.63	YES	
L0000988	0	0.53870E-07	403136.2	3760169.3	70.3	3.50	4.70	1.63	YES	
L0000989	0	0.53870E-07	403131.1	3760178.0	70.2	3.50	4.70	1.63	YES	
L0000990	0	0.53870E-07	403125.9	3760186.7	70.1	3.50	4.70	1.63	YES	
L0000991	0	0.53870E-07	403120.8	3760195.4	70.0	3.50	4.70	1.63	YES	
L0000992	0	0.53870E-07	403115.6	3760204.1	70.0	3.50	4.70	1.63	YES	
L0000993	0	0.53870E-07	403110.5	3760212.8	70.1	3.50	4.70	1.63	YES	
L0000994	0	0.53870E-07	403105.3	3760221.5	70.1	3.50	4.70	1.63	YES	

L0000995	0	0.53870E-07	403100.2	3760230.3	70.2	3.50	4.70	1.63	YES
L0000996	0	0.53870E-07	403095.0	3760239.0	70.2	3.50	4.70	1.63	YES
L0000997	0	0.53870E-07	403089.9	3760247.7	70.3	3.50	4.70	1.63	YES
L0000998	0	0.53870E-07	403084.7	3760256.4	70.4	3.50	4.70	1.63	YES
L0000999	0	0.53870E-07	403079.6	3760265.1	70.4	3.50	4.70	1.63	YES
L0001000	0	0.53870E-07	403074.4	3760273.8	70.5	3.50	4.70	1.63	YES
L0001001	0	0.53870E-07	403069.3	3760282.5	70.7	3.50	4.70	1.63	YES
L0001002	0	0.53870E-07	403064.1	3760291.2	70.9	3.50	4.70	1.63	YES
L0001003	0	0.53870E-07	403059.0	3760299.9	71.0	3.50	4.70	1.63	YES
L0001004	0	0.53870E-07	403053.8	3760308.6	71.2	3.50	4.70	1.63	YES
L0001005	0	0.53870E-07	403048.7	3760317.3	71.3	3.50	4.70	1.63	YES
L0001006	0	0.53870E-07	403043.5	3760326.0	71.4	3.50	4.70	1.63	YES
L0001007	0	0.53870E-07	403038.4	3760334.7	71.2	3.50	4.70	1.63	YES
L0001008	0	0.53870E-07	403033.3	3760343.4	71.1	3.50	4.70	1.63	YES
L0001009	0	0.53870E-07	403028.1	3760352.1	71.0	3.50	4.70	1.63	YES
L0001010	0	0.53870E-07	403023.0	3760360.9	70.9	3.50	4.70	1.63	YES
L0001011	0	0.53870E-07	403017.8	3760369.6	71.0	3.50	4.70	1.63	YES
L0001012	0	0.53870E-07	403012.7	3760378.3	71.1	3.50	4.70	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
-----	-----															
ALL	STCK1	,	STCK2	,	STCK3	,	STCK4	,	STCK5	,	L0000740	,	L0000741	,	L0000742	,
	L0000743	,	L0000744	,	L0000745	,	L0000746	,	L0000747	,	L0000748	,	L0000749	,	L0000750	,
	L0000751	,	L0000752	,	L0000753	,	L0000754	,	L0000755	,	L0000756	,	L0000757	,	L0000758	,
	L0000759	,	L0000760	,	L0000761	,	L0000762	,	L0000763	,	L0000764	,	L0000765	,	L0000766	,
	L0000767	,	L0000768	,	L0000769	,	L0000770	,	L0000771	,	L0000772	,	L0000773	,	L0000774	,
	L0000775	,	L0000776	,	L0000777	,	L0000778	,	L0000779	,	L0000780	,	L0000781	,	L0000782	,
	L0000783	,	L0000784	,	L0000785	,	L0000786	,	L0000787	,	L0000788	,	L0000789	,	L0000790	,
	L0000791	,	L0000792	,	L0000793	,	L0000794	,	L0000795	,	L0000796	,	L0000797	,	L0000798	,
	L0000799	,	L0000800	,	L0000801	,	L0000802	,	L0000803	,	L0000804	,	L0000805	,	L0000806	,
	L0000807	,	L0000808	,	L0000809	,	L0000810	,	L0000811	,	L0000812	,	L0000813	,	L0000814	,


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L0000815 , L0000816 , L0000817 , L0000818 , L0000819 , L0000820 , L0000821 , L0000822 ,
L0000823 , L0000824 , L0000825 , L0000826 , L0000827 , L0000828 , L0000829 , L0000830 ,
L0000831 , L0000832 , L0000833 , L0000834 , L0000835 , L0000836 , L0000837 , L0000838 ,
L0000839 , L0000840 , L0000841 , L0000842 , L0000843 , L0000844 , L0000845 , L0000846 ,
L0000847 , L0000848 , L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 ,
L0000855 , L0000856 , L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 ,
L0000863 , L0000864 , L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 ,
L0000871 , L0000872 , L0000873 , L0000874 , L0000875 , L0000876 , L0000877 , L0000878 ,
L0000879 , L0000880 , L0000881 , L0000882 , L0000883 , L0000884 , L0000885 , L0000886 ,
L0000887 , L0000888 , L0000889 , L0000890 , L0000891 , L0000892 , L0000893 , L0000894 ,

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*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
-----	-----														
L0000895	,	L0000896	,	L0000897	,	L0000898	,	L0000899	,	L0000900	,	L0000901	,	L0000902	,
L0000903	,	L0000904	,	L0000905	,	L0000906	,	L0000907	,	L0000908	,	L0000909	,	L0000910	,
L0000911	,	L0000912	,	L0000913	,	L0000914	,	L0000915	,	L0000916	,	L0000917	,	L0000918	,
L0000919	,	L0000920	,	L0000921	,	L0000922	,	L0000923	,	L0000924	,	L0000925	,	L0000926	,
L0000927	,	L0000928	,	L0000929	,	L0000930	,	L0000931	,	L0000932	,	L0000933	,	L0000934	,
L0000935	,	L0000936	,	L0000937	,	L0000938	,	L0000939	,	L0000940	,	L0000941	,	L0000942	,
L0000943	,	L0000944	,	L0000945	,	L0000946	,	L0000947	,	L0000948	,	L0000949	,	L0000950	,
L0000951	,	L0000952	,	L0000953	,	L0000954	,	L0000955	,	L0000956	,	L0000957	,	L0000958	,
L0000959	,	L0000960	,	L0000961	,	L0000962	,	L0000963	,	L0000964	,	L0000965	,	L0000966	,
L0000967	,	L0000968	,	L0000969	,	L0000970	,	L0000971	,	L0000972	,	L0000973	,	L0000974	,

L0000975 , L0000976 , L0000977 , L0000978 , L0000979 , L0000980 , L0000981 , L0000982 ,
L0000983 , L0000984 , L0000985 , L0000986 , L0000987 , L0000988 , L0000989 , L0000990 ,
L0000991 , L0000992 , L0000993 , L0000994 , L0000995 , L0000996 , L0000997 , L0000998 ,
L0000999 , L0001000 , L0001001 , L0001002 , L0001003 , L0001004 , L0001005 , L0001006 ,
L0001007 , L0001008 , L0001009 , L0001010 , L0001011 , L0001012 ,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----	-----	-----	-----	-----	-----	-----	
L0000742	9818605.	STCK1	, STCK2	, STCK3	, STCK4	, STCK5	, L0000740	, L0000741	,
	,								
	L0000743	, L0000744	, L0000745	, L0000746	, L0000747	, L0000748	, L0000749	, L0000750	,
	L0000751	, L0000752	, L0000753	, L0000754	, L0000755	, L0000756	, L0000757	, L0000758	,
	L0000759	, L0000760	, L0000761	, L0000762	, L0000763	, L0000764	, L0000765	, L0000766	,
	L0000767	, L0000768	, L0000769	, L0000770	, L0000771	, L0000772	, L0000773	, L0000774	,
	L0000775	, L0000776	, L0000777	, L0000778	, L0000779	, L0000780	, L0000781	, L0000782	,
	L0000783	, L0000784	, L0000785	, L0000786	, L0000787	, L0000788	, L0000789	, L0000790	,
	L0000791	, L0000792	, L0000793	, L0000794	, L0000795	, L0000796	, L0000797	, L0000798	,
	L0000799	, L0000800	, L0000801	, L0000802	, L0000803	, L0000804	, L0000805	, L0000806	,
	L0000807	, L0000808	, L0000809	, L0000810	, L0000811	, L0000812	, L0000813	, L0000814	,
	L0000815	, L0000816	, L0000817	, L0000818	, L0000819	, L0000820	, L0000821	, L0000822	,
	L0000823	, L0000824	, L0000825	, L0000826	, L0000827	, L0000828	, L0000829	, L0000830	,
	L0000831	, L0000832	, L0000833	, L0000834	, L0000835	, L0000836	, L0000837	, L0000838	,
	L0000839	, L0000840	, L0000841	, L0000842	, L0000843	, L0000844	, L0000845	, L0000846	,

L0000847 , L0000848 , L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 ,
 L0000855 , L0000856 , L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 ,
 L0000863 , L0000864 , L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 ,
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 L0000887 , L0000888 , L0000889 , L0000890 , L0000891 , L0000892 , L0000893 , L0000894 ,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
L0000895		, L0000896	, L0000897	, L0000898	, L0000899	, L0000900	, L0000901	, L0000902	,
L0000903		, L0000904	, L0000905	, L0000906	, L0000907	, L0000908	, L0000909	, L0000910	,
L0000911		, L0000912	, L0000913	, L0000914	, L0000915	, L0000916	, L0000917	, L0000918	,
L0000919		, L0000920	, L0000921	, L0000922	, L0000923	, L0000924	, L0000925	, L0000926	,
L0000927		, L0000928	, L0000929	, L0000930	, L0000931	, L0000932	, L0000933	, L0000934	,
L0000935		, L0000936	, L0000937	, L0000938	, L0000939	, L0000940	, L0000941	, L0000942	,
L0000943		, L0000944	, L0000945	, L0000946	, L0000947	, L0000948	, L0000949	, L0000950	,
L0000951		, L0000952	, L0000953	, L0000954	, L0000955	, L0000956	, L0000957	, L0000958	,
L0000959		, L0000960	, L0000961	, L0000962	, L0000963	, L0000964	, L0000965	, L0000966	,
L0000967		, L0000968	, L0000969	, L0000970	, L0000971	, L0000972	, L0000973	, L0000974	,
L0000975		, L0000976	, L0000977	, L0000978	, L0000979	, L0000980	, L0000981	, L0000982	,
L0000983		, L0000984	, L0000985	, L0000986	, L0000987	, L0000988	, L0000989	, L0000990	,
L0000991		, L0000992	, L0000993	, L0000994	, L0000995	, L0000996	, L0000997	, L0000998	,

L0000999 , L0001000 , L0001001 , L0001002 , L0001003 , L0001004 , L0001005 , L0001006 ,
 L0001007 , L0001008 , L0001009 , L0001010 , L0001011 , L0001012 ,

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** DPM Concentrations 2YR 2025-2026

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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	10.7	226.0	233.4	-18.6	-35.5	2	10.7	215.2	250.1	-25.0	-15.0
3	10.7	198.7	259.2	-30.8	5.5	4	10.7	178.8	260.5	-35.5	24.6
5	10.7	153.4	253.9	-39.2	42.8	6	10.7	124.1	243.3	-42.0	59.5
7	10.7	147.9	246.9	-50.2	77.4	8	10.7	182.2	243.0	-56.8	87.0
9	10.7	211.0	231.7	-61.8	94.0	10	10.7	233.4	226.0	-77.5	98.1
11	10.7	250.1	215.2	-92.6	100.0	12	10.7	259.2	198.7	-104.8	98.9
13	10.7	260.5	178.8	-113.9	94.7	14	10.7	253.9	153.4	-119.5	87.7
15	10.7	243.3	124.1	-121.5	79.7	16	10.7	246.9	147.9	-151.3	73.3
17	10.7	243.0	182.2	-178.1	64.6	18	10.7	231.7	211.0	-199.5	54.1
19	10.7	226.0	233.4	-214.8	35.5	20	10.7	215.2	250.1	-225.1	15.0
21	10.7	198.7	259.2	-228.5	-5.5	22	10.7	178.8	260.5	-225.0	-24.6
23	10.7	153.4	253.9	-214.6	-42.8	24	10.7	124.1	243.3	-201.3	-59.5
25	10.7	147.9	246.9	-196.7	-77.4	26	10.7	182.2	243.0	-186.1	-87.0
27	10.7	211.0	231.7	-169.9	-94.0	28	10.7	233.4	226.0	-148.5	-98.1
29	10.7	250.1	215.2	-122.6	-100.0	30	10.7	259.2	198.7	-93.8	-98.9
31	10.7	260.5	178.8	-64.8	-94.7	32	10.7	253.9	153.4	-33.9	-87.7
33	10.7	243.3	124.1	-2.6	-79.7	34	10.7	246.9	147.9	3.4	-73.3
35	10.7	243.0	182.2	-4.1	-64.6	36	10.7	231.7	211.0	-11.5	-54.1

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7	226.0	233.4	-61.8	20.2	2	10.7	215.2	250.1	-77.3	32.4
3	10.7	198.7	259.2	-90.5	43.1	4	10.7	178.8	260.5	-100.9	51.2
5	10.7	153.4	253.9	-108.2	57.7	6	10.7	124.1	243.3	-112.5	62.1
7	10.7	147.9	246.9	-120.1	67.7	8	10.7	182.2	243.0	-124.0	65.4
9	10.7	211.0	231.7	-124.2	61.0	10	10.7	233.4	226.0	-133.2	54.8
11	10.7	250.1	215.2	-140.0	47.7	12	10.7	259.2	198.7	-142.4	39.1
13	10.7	260.5	178.8	-140.6	29.4	14	10.7	253.9	153.4	-134.4	18.7
15	10.7	243.3	124.1	-124.2	9.1	16	10.7	246.9	147.9	-141.7	3.3
17	10.7	243.0	182.2	-156.5	-2.5	18	10.7	231.7	211.0	-166.5	-8.3
19	10.7	226.0	233.4	-171.5	-20.2	20	10.7	215.2	250.1	-172.8	-32.4
21	10.7	198.7	259.2	-168.7	-43.1	22	10.7	178.8	260.5	-159.6	-51.2
23	10.7	153.4	253.9	-145.6	-57.7	24	10.7	124.1	243.3	-130.8	-62.1
25	10.7	147.9	246.9	-126.8	-67.7	26	10.7	182.2	243.0	-118.9	-65.4
27	10.7	211.0	231.7	-107.5	-61.0	28	10.7	233.4	226.0	-92.8	-54.8
29	10.7	250.1	215.2	-75.2	-47.7	30	10.7	259.2	198.7	-56.3	-39.1

31	10.7,	260.5,	178.8,	-38.2,	-29.4,	32	10.7,	253.9,	153.4,	-19.0,	-18.7,
33	10.7,	243.3,	124.1,	0.1,	-9.1,	34	10.7,	246.9,	147.9,	-6.2,	-3.3,
35	10.7,	243.0,	182.2,	-25.7,	2.5,	36	10.7,	231.7,	211.0,	-44.5,	8.3,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-31.6,	-16.6,	2	10.7,	215.2,	250.1,	-41.2,	1.4,
3	10.7,	198.7,	259.2,	-49.5,	18.8,	4	10.7,	178.8,	260.5,	-56.3,	34.4,
5	10.7,	153.4,	253.9,	-61.4,	49.0,	6	10.7,	124.1,	243.3,	-64.9,	61.6,
7	10.7,	147.9,	246.9,	-73.1,	75.5,	8	10.7,	182.2,	243.0,	-79.1,	81.2,
9	10.7,	211.0,	231.7,	-82.7,	84.4,	10	10.7,	233.4,	226.0,	-96.4,	85.1,
11	10.7,	250.1,	215.2,	-109.0,	83.9,	12	10.7,	259.2,	198.7,	-118.2,	80.1,
13	10.7,	260.5,	178.8,	-123.8,	73.9,	14	10.7,	253.9,	153.4,	-125.7,	65.5,
15	10.7,	243.3,	124.1,	-123.7,	56.8,	16	10.7,	246.9,	147.9,	-149.5,	50.3,
17	10.7,	243.0,	182.2,	-172.3,	42.4,	18	10.7,	231.7,	211.0,	-189.9,	33.1,
19	10.7,	226.0,	233.4,	-201.8,	16.6,	20	10.7,	215.2,	250.1,	-208.9,	-1.4,
21	10.7,	198.7,	259.2,	-209.8,	-18.8,	22	10.7,	178.8,	260.5,	-204.2,	-34.4,
23	10.7,	153.4,	253.9,	-192.4,	-49.0,	24	10.7,	124.1,	243.3,	-178.4,	-61.6,
25	10.7,	147.9,	246.9,	-173.8,	-75.5,	26	10.7,	182.2,	243.0,	-163.9,	-81.2,
27	10.7,	211.0,	231.7,	-149.0,	-84.4,	28	10.7,	233.4,	226.0,	-129.6,	-85.1,
29	10.7,	250.1,	215.2,	-106.2,	-83.9,	30	10.7,	259.2,	198.7,	-80.5,	-80.1,
31	10.7,	260.5,	178.8,	-55.0,	-73.9,	32	10.7,	253.9,	153.4,	-27.8,	-65.5,
33	10.7,	243.3,	124.1,	-0.4,	-56.8,	34	10.7,	246.9,	147.9,	1.6,	-50.3,
35	10.7,	243.0,	182.2,	-9.9,	-42.4,	36	10.7,	231.7,	211.0,	-21.1,	-33.1,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-84.8,	46.1,	2	10.7,	215.2,	250.1,	-104.4,	53.8,
3	10.7,	198.7,	259.2,	-120.9,	59.5,	4	10.7,	178.8,	260.5,	-133.7,	62.1,
5	10.7,	153.4,	253.9,	-142.4,	62.8,	6	10.7,	124.1,	243.3,	-147.0,	61.2,
7	10.7,	147.9,	246.9,	-153.9,	60.8,	8	10.7,	182.2,	243.0,	-156.1,	52.7,
9	10.7,	211.0,	231.7,	-153.6,	42.9,	10	10.7,	233.4,	226.0,	-159.1,	31.9,
11	10.7,	250.1,	215.2,	-161.4,	20.6,	12	10.7,	259.2,	198.7,	-158.9,	8.7,
13	10.7,	260.5,	178.8,	-151.5,	-3.4,	14	10.7,	253.9,	153.4,	-139.5,	-15.5,
15	10.7,	243.3,	124.1,	-123.2,	-25.4,	16	10.7,	246.9,	147.9,	-134.7,	-30.5,
17	10.7,	243.0,	182.2,	-143.8,	-34.6,	18	10.7,	231.7,	211.0,	-148.4,	-37.8,
19	10.7,	226.0,	233.4,	-148.6,	-46.1,	20	10.7,	215.2,	250.1,	-145.7,	-53.8,
21	10.7,	198.7,	259.2,	-138.4,	-59.5,	22	10.7,	178.8,	260.5,	-126.8,	-62.1,
23	10.7,	153.4,	253.9,	-111.5,	-62.8,	24	10.7,	124.1,	243.3,	-96.2,	-61.2,
25	10.7,	147.9,	246.9,	-93.0,	-60.8,	26	10.7,	182.2,	243.0,	-86.8,	-52.7,
27	10.7,	211.0,	231.7,	-78.1,	-42.9,	28	10.7,	233.4,	226.0,	-66.9,	-31.9,
29	10.7,	250.1,	215.2,	-53.8,	-20.6,	30	10.7,	259.2,	198.7,	-39.8,	-8.7,
31	10.7,	260.5,	178.8,	-27.3,	3.4,	32	10.7,	253.9,	153.4,	-14.0,	15.5,
33	10.7,	243.3,	124.1,	-0.9,	25.4,	34	10.7,	246.9,	147.9,	-13.2,	30.5,
35	10.7,	243.0,	182.2,	-38.4,	34.6,	36	10.7,	231.7,	211.0,	-62.6,	37.8,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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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	10.7	226.0	233.4	-97.0	85.0	2	10.7	215.2	250.1	-123.2	90.0
3	10.7	198.7	259.2	-145.7	91.8	4	10.7	178.8	260.5	-163.7	89.6
5	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0
7	10.7	147.9	246.9	-193.7	69.6	8	10.7	182.2	243.0	-196.9	54.4
9	10.7	211.0	231.7	-194.0	37.6	10	10.7	233.4	226.0	-198.0	19.7
11	10.7	250.1	215.2	-197.6	1.8	12	10.7	259.2	198.7	-191.2	-16.1
13	10.7	260.5	178.8	-179.0	-33.5	14	10.7	253.9	153.4	-161.4	-49.9
15	10.7	243.3	124.1	-138.8	-63.1	16	10.7	246.9	147.9	-143.6	-70.3
17	10.7	243.0	182.2	-145.6	-75.4	18	10.7	231.7	211.0	-143.1	-78.2
19	10.7	226.0	233.4	-136.3	-85.0	20	10.7	215.2	250.1	-126.9	-90.0
21	10.7	198.7	259.2	-113.5	-91.8	22	10.7	178.8	260.5	-96.8	-89.6
23	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0
25	10.7	147.9	246.9	-53.1	-69.6	26	10.7	182.2	243.0	-46.1	-54.4
27	10.7	211.0	231.7	-37.6	-37.6	28	10.7	233.4	226.0	-28.1	-19.7
29	10.7	250.1	215.2	-17.6	-1.8	30	10.7	259.2	198.7	-7.5	16.1
31	10.7	260.5	178.8	0.2	33.5	32	10.7	253.9	153.4	8.0	49.9
33	10.7	243.3	124.1	14.7	63.1	34	10.7	246.9	147.9	-4.3	70.3
35	10.7	243.0	182.2	-36.7	75.4	36	10.7	231.7	211.0	-67.9	78.2

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

402680.3, 402746.2, 402812.2, 402878.1, 402944.0, 403010.0, 403075.9, 403141.8, 403207.8, 403273.7,
 403339.6, 403405.5, 403471.5, 403537.4, 403603.3, 403669.3, 403735.2, 403801.1, 403867.1, 403933.0,
 403998.9,

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

3759000.9, 3759070.5, 3759140.2, 3759209.8, 3759279.4, 3759349.0, 3759418.7, 3759488.3, 3759557.9, 3759627.6,
 3759697.2, 3759766.8, 3759836.5, 3759906.1, 3759975.7, 3760045.4, 3760115.0, 3760184.6, 3760254.2, 3760323.9,
 3760393.5,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70

3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	84.00	86.10	88.20
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	87.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	66.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U* *** PAGE 19

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	94.90	97.60	99.60
3760323.87	92.60	95.30	97.80
3760254.24	91.60	94.30	96.20
3760184.61	91.00	92.90	95.10
3760114.98	90.20	92.20	94.00
3760045.35	89.50	91.10	93.10
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60
3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90
3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00

3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP   ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2YR 2025-2026 ***   18:34:15
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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)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	67.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	59.00	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	62.60
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	57.50	56.80	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP   ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2YR 2025-2026 ***   18:34:15
                                                                                                     PAGE 21

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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)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
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3760393.50	78.20	79.70	82.10	324.50	361.90	361.90	361.90	361.90	361.90
3760323.87	76.50	78.70	80.70	82.30	324.50	361.90	361.90	361.90	361.90
3760254.24	75.30	77.80	78.80	80.80	82.10	324.70	324.70	361.90	361.90
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	324.50	324.70	336.70
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	323.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	70.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

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*** AERMOD - VERSION 22112 ***      *** 19391 Whittier Blvd BP          ***      06/26/23
*** AERMET - VERSION 16216 ***      *** DPM Concentrations 2YR 2025-2026 ***      18:34:15
                                                                                                     ***      PAGE 22

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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)		
	403867.06	403932.99	403998.92
3760393.50	361.90	361.90	361.90
3760323.87	361.90	361.90	361.90
3760254.24	361.90	361.90	361.90
3760184.61	361.10	361.90	361.90
3760114.98	324.50	324.70	336.70
3760045.35	89.50	91.10	323.90
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60
3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90
3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40

3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2YR 2025-2026 ***   18:34:15
                                                                    ***   PAGE 23

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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

(403076.6, 3759566.9,	63.0,	63.0,	0.0);	(403074.6, 3759594.7,	63.1,	63.1,	0.0);
(403074.3, 3759652.4,	63.8,	63.8,	0.0);	(403036.2, 3759545.2,	61.6,	61.6,	0.0);
(403491.1, 3759689.7,	73.7,	73.7,	0.0);	(403558.2, 3759512.8,	71.0,	71.0,	0.0);
(403587.6, 3759479.4,	70.9,	70.9,	0.0);	(403471.1, 3759691.3,	73.3,	73.3,	0.0);
(403097.0, 3760166.2,	69.1,	69.1,	0.0);				

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2YR 2025-2026 ***   18:34:15
                                                                    ***   PAGE 24

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - -	DISTANCE
	XR (METERS) YR (METERS)	(METERS)
L0000745	403339.6 3759627.6	-7.09
L0000746	403339.6 3759627.6	-0.90
L0000762	403207.8 3759557.9	-2.06
L0000763	403207.8 3759557.9	-1.64
L0000770	403405.5 3759627.6	-4.59
L0000771	403405.5 3759627.6	-3.45
L0000801	403537.4 3759418.7	0.82
L0000829	403669.3 3759209.8	-3.56
L0000830	403669.3 3759209.8	-5.02
L0000881	403339.6 3759070.5	-4.58
L0000882	403339.6 3759070.5	-3.94
L0000909	403537.4 3759488.3	-1.57
L0000910	403537.4 3759488.3	-7.74
L0000925	403471.5 3759627.6	-0.10
L0000934	403405.5 3759697.2	-0.35
L0000949	403339.6 3759836.5	-2.86
L0000950	403339.6 3759836.5	-2.05

10 01 01	1 04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10 01 01	1 05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10 01 01	1 06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10 01 01	1 07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10 01 01	1 08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10 01 01	1 09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10 01 01	1 10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10 01 01	1 11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10 01 01	1 12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10 01 01	1 13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10 01 01	1 14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10 01 01	1 15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10 01 01	1 16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10 01 01	1 17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10 01 01	1 18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10 01 01	1 19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10 01 01	1 20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10 01 01	1 21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10 01 01	1 22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5
10 01 01	1 23	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	178.	9.1	284.2	5.5
10 01 01	1 24	-11.8	0.154	-9.000	-9.000	-999.	145.	27.6	0.34	0.73	1.00	1.30	28.	9.1	283.1	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	283.8	99.0	-99.00	-99.00
10 01 01 01	9.1	1	321.	3.10	-999.0	99.0	-99.00	-99.00

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

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*** AERMOD - VERSION 22112 ***      *** 19391 Whittier Blvd BP          ***      06/26/23
*** AERMET - VERSION 16216 ***      *** DPM Concentrations 2YR 2025-2026 ***      18:34:15
                                                                              ***      PAGE 27

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION  VALUES FOR SOURCE GROUP: ALL          ***
      INCLUDING SOURCE(S):  STCK1      , STCK2      , STCK3      , STCK4      , STCK5      ,
L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	0.00007	0.00008	0.00010	0.00011	0.00015	0.00034	0.00022	0.00018	0.00017
3760323.87	0.00008	0.00009	0.00011	0.00014	0.00018	0.00037	0.00045	0.00026	0.00022

3760254.24	0.00009	0.00011	0.00013	0.00016	0.00020	0.00029	0.00068	0.00039	0.00030
3760184.61	0.00010	0.00012	0.00015	0.00018	0.00023	0.00029	0.00043	0.00082	0.00041
3760114.98	0.00011	0.00013	0.00017	0.00021	0.00026	0.00032	0.00041	0.00069	0.00062
3760045.35	0.00012	0.00015	0.00019	0.00023	0.00029	0.00036	0.00045	0.00057	0.00091
3759975.72	0.00013	0.00017	0.00021	0.00026	0.00033	0.00041	0.00051	0.00063	0.00083
3759906.09	0.00015	0.00018	0.00023	0.00028	0.00036	0.00046	0.00058	0.00073	0.00091
3759836.46	0.00016	0.00020	0.00025	0.00031	0.00040	0.00051	0.00067	0.00089	0.00119
3759766.83	0.00016	0.00021	0.00026	0.00033	0.00043	0.00055	0.00075	0.00126	0.00154
3759697.20	0.00017	0.00022	0.00028	0.00035	0.00045	0.00059	0.00087	0.00123	0.00169
3759627.57	0.00017	0.00022	0.00028	0.00036	0.00047	0.00063	0.00109	0.00117	0.00208
3759557.94	0.00017	0.00022	0.00028	0.00036	0.00047	0.00067	0.00109	0.00183	0.00298
3759488.31	0.00016	0.00021	0.00027	0.00035	0.00048	0.00069	0.00111	0.00180	0.00189
3759418.68	0.00016	0.00020	0.00026	0.00035	0.00048	0.00068	0.00094	0.00104	0.00088
3759349.05	0.00015	0.00019	0.00025	0.00033	0.00045	0.00059	0.00066	0.00064	0.00055
3759279.42	0.00014	0.00018	0.00023	0.00030	0.00038	0.00046	0.00046	0.00042	0.00038
3759209.79	0.00013	0.00016	0.00020	0.00025	0.00030	0.00033	0.00033	0.00031	0.00030
3759140.16	0.00011	0.00014	0.00017	0.00020	0.00023	0.00024	0.00025	0.00026	0.00028
3759070.53	0.00010	0.00012	0.00014	0.00016	0.00018	0.00019	0.00021	0.00032	0.00048
3759000.90	0.00009	0.00010	0.00012	0.00013	0.00014	0.00015	0.00017	0.00028	0.00029

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP                 ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2YR 2025-2026     ***   18:34:15
                                                                    ***   PAGE 28
  
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
      INCLUDING SOURCE(S):   STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , . . . ,
  
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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	0.00017	0.00016	0.00016	0.00015	0.00014	0.00013	0.00012	0.00011	0.00010
3760323.87	0.00021	0.00020	0.00019	0.00018	0.00017	0.00015	0.00014	0.00012	0.00011
3760254.24	0.00027	0.00026	0.00024	0.00022	0.00020	0.00018	0.00016	0.00014	0.00013
3760184.61	0.00036	0.00033	0.00031	0.00028	0.00025	0.00022	0.00019	0.00016	0.00014
3760114.98	0.00047	0.00043	0.00039	0.00035	0.00030	0.00026	0.00022	0.00019	0.00016
3760045.35	0.00065	0.00056	0.00050	0.00044	0.00037	0.00031	0.00026	0.00022	0.00018
3759975.72	0.00106	0.00076	0.00065	0.00055	0.00046	0.00038	0.00030	0.00024	0.00019
3759906.09	0.00133	0.00107	0.00085	0.00069	0.00056	0.00043	0.00033	0.00025	0.00019
3759836.46	0.00141	0.00160	0.00116	0.00087	0.00064	0.00046	0.00034	0.00025	0.00019
3759766.83	0.00185	0.00209	0.00172	0.00102	0.00067	0.00046	0.00033	0.00024	0.00018
3759697.20	0.00223	0.00187	0.00231	0.00112	0.00066	0.00045	0.00032	0.00023	0.00018
3759627.57	0.00270	0.00331	0.00238	0.00141	0.00068	0.00044	0.00031	0.00023	0.00017

3759557.94	0.00258	0.00178	0.00152	0.00156	0.00083	0.00046	0.00031	0.00023	0.00017
3759488.31	0.00146	0.00111	0.00099	0.00181	0.00112	0.00050	0.00032	0.00023	0.00018
3759418.68	0.00076	0.00070	0.00067	0.00074	0.00104	0.00053	0.00033	0.00024	0.00018
3759349.05	0.00050	0.00048	0.00047	0.00048	0.00054	0.00085	0.00036	0.00025	0.00019
3759279.42	0.00037	0.00037	0.00036	0.00037	0.00039	0.00059	0.00047	0.00027	0.00019
3759209.79	0.00030	0.00031	0.00032	0.00032	0.00034	0.00039	0.00068	0.00030	0.00018
3759140.16	0.00030	0.00033	0.00036	0.00040	0.00048	0.00063	0.00088	0.00031	0.00017
3759070.53	0.00073	0.00063	0.00069	0.00047	0.00037	0.00030	0.00025	0.00018	0.00014
3759000.90	0.00027	0.00025	0.00023	0.00021	0.00019	0.00018	0.00016	0.00013	0.00011

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2YR 2025-2026 *** 18:34:15
 *** MODELPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* *** PAGE 29

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
 L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
 L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
 L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	0.00009	0.00008	0.00007
3760323.87	0.00010	0.00009	0.00008
3760254.24	0.00011	0.00010	0.00009
3760184.61	0.00012	0.00011	0.00009
3760114.98	0.00014	0.00011	0.00010
3760045.35	0.00015	0.00012	0.00010
3759975.72	0.00015	0.00012	0.00010
3759906.09	0.00015	0.00012	0.00010
3759836.46	0.00015	0.00012	0.00010
3759766.83	0.00014	0.00011	0.00009
3759697.20	0.00014	0.00011	0.00009
3759627.57	0.00014	0.00011	0.00009
3759557.94	0.00014	0.00011	0.00009
3759488.31	0.00014	0.00011	0.00009
3759418.68	0.00014	0.00011	0.00009
3759349.05	0.00014	0.00011	0.00009
3759279.42	0.00014	0.00011	0.00009
3759209.79	0.00014	0.00011	0.00008
3759140.16	0.00012	0.00010	0.00008
3759070.53	0.00011	0.00009	0.00008
3759000.90	0.00010	0.00008	0.00007

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP *** 06/26/23
 *** AERMET - VERSION 16216 *** DPM Concentrations 2YR 2025-2026 *** 18:34:15
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1, STCK2, STCK3, STCK4, STCK5 ,
 L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
 L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
 L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , . . .

*** 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
403076.63	3759566.89	0.00110	403074.61	3759594.66	0.00108
403074.33	3759652.43	0.00103	403036.23	3759545.23	0.00079
403491.13	3759689.69	0.00094	403558.25	3759512.77	0.00080
403587.63	3759479.41	0.00059	403471.13	3759691.31	0.00113
403096.96	3760166.19	0.00050			

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP *** 06/26/23
 *** AERMET - VERSION 16216 *** DPM Concentrations 2YR 2025-2026 *** 18:34:15
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 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 0.00331	AT (403339.62, 3759627.57, 68.10, 68.10, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS 0.00298	AT (403207.76, 3759557.94, 66.70, 66.70, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS 0.00270	AT (403273.69, 3759627.57, 67.70, 67.70, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS 0.00258	AT (403273.69, 3759557.94, 66.40, 66.40, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS 0.00238	AT (403405.55, 3759627.57, 70.40, 70.40, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS 0.00231	AT (403405.55, 3759697.20, 72.10, 72.10, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS 0.00223	AT (403273.69, 3759697.20, 68.00, 68.00, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS 0.00209	AT (403339.62, 3759766.83, 71.30, 71.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS 0.00208	AT (403207.76, 3759627.57, 67.30, 67.30, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS 0.00189	AT (403207.76, 3759488.31, 64.10, 64.10, 0.00)	GC	UCART1

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR

DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP
*** AERMET - VERSION 16216 *** DPM Concentrations 2YR 2025-2026

*** 06/26/23
*** 18:34:15
*** PAGE 32

*** 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 9 Warning Message(s)
A Total of 1277 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 152 Calm Hours Identified

A Total of 1125 Missing Hours Identified (2.57 Percent)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	15010101
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

*** AERMOD Finishes Successfully ***

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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 6/26/2023
** File: C:\Lakes\AERMOD View\19391 Whittier Blvd BP 1st 14 YR\19391 Whittier Blvd BP 1st 14 YR.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE 19391 Whittier Blvd BP
TITLETWO DPM Concentrations 14YR 2027-2040
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 9818605 Los_Angeles_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19391 Whittier Blvd BP 1st 14 YR.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION STCK1 POINT 403193.640 3759565.730 66.820
** DESCRSRC Truck idling Location
LOCATION STCK2 POINT 403256.045 3759598.705 67.440
** DESCRSRC Truck idling Location
LOCATION STCK3 POINT 403214.561 3759575.303 66.930
** DESCRSRC Truck idling Location
LOCATION STCK4 POINT 403285.474 3759616.787 67.600
** DESCRSRC Truck idling Location
LOCATION STCK5 POINT 403325.895 3759622.106 67.810
** DESCRSRC Truck idling Location
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel

```

```

** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.16E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403377.081, 3759656.927, 68.97, 3.50, 4.00
** 403368.321, 3759649.002, 68.27, 3.50, 4.00
** 403361.646, 3759641.493, 68.07, 3.50, 4.00
** 403353.721, 3759633.985, 68.07, 3.50, 4.00
** 403323.270, 3759617.299, 67.71, 3.50, 4.00
** 403189.785, 3759541.797, 65.87, 3.50, 4.00
** -----
LOCATION L0001013    VOLUME  403373.895 3759654.046 68.80
LOCATION L0001014    VOLUME  403367.608 3759648.200 68.24
LOCATION L0001015    VOLUME  403361.900 3759641.779 68.19
LOCATION L0001016    VOLUME  403355.687 3759635.848 68.25
LOCATION L0001017    VOLUME  403348.563 3759631.158 68.15
LOCATION L0001018    VOLUME  403341.029 3759627.030 68.08
LOCATION L0001019    VOLUME  403333.495 3759622.902 67.96
LOCATION L0001020    VOLUME  403325.961 3759618.774 67.80
LOCATION L0001021    VOLUME  403318.463 3759614.581 67.70
LOCATION L0001022    VOLUME  403310.986 3759610.351 67.69
LOCATION L0001023    VOLUME  403303.508 3759606.122 67.65
LOCATION L0001024    VOLUME  403296.031 3759601.892 67.57
LOCATION L0001025    VOLUME  403288.553 3759597.663 67.52
LOCATION L0001026    VOLUME  403281.076 3759593.433 67.47
LOCATION L0001027    VOLUME  403273.598 3759589.204 67.42
LOCATION L0001028    VOLUME  403266.120 3759584.974 67.36
LOCATION L0001029    VOLUME  403258.643 3759580.745 67.21
LOCATION L0001030    VOLUME  403251.165 3759576.515 67.10
LOCATION L0001031    VOLUME  403243.688 3759572.286 67.02
LOCATION L0001032    VOLUME  403236.210 3759568.056 66.91
LOCATION L0001033    VOLUME  403228.733 3759563.827 66.83
LOCATION L0001034    VOLUME  403221.255 3759559.597 66.77
LOCATION L0001035    VOLUME  403213.778 3759555.368 66.73
LOCATION L0001036    VOLUME  403206.300 3759551.138 66.47
LOCATION L0001037    VOLUME  403198.823 3759546.909 66.17
LOCATION L0001038    VOLUME  403191.345 3759542.679 65.89
** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.25E-06
** Elevated

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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** -----
LOCATION L0001039    VOLUME  403385.280 3759659.813 70.03
LOCATION L0001040    VOLUME  403389.548 3759652.357 69.98
LOCATION L0001041    VOLUME  403393.816 3759644.901 70.08
LOCATION L0001042    VOLUME  403398.083 3759637.446 70.40
LOCATION L0001043    VOLUME  403402.351 3759629.990 70.43
LOCATION L0001044    VOLUME  403406.619 3759622.534 70.34
LOCATION L0001045    VOLUME  403410.886 3759615.078 70.21
LOCATION L0001046    VOLUME  403415.154 3759607.622 70.06
LOCATION L0001047    VOLUME  403419.422 3759600.167 69.93
LOCATION L0001048    VOLUME  403423.689 3759592.711 69.84
LOCATION L0001049    VOLUME  403427.957 3759585.255 69.78
LOCATION L0001050    VOLUME  403432.225 3759577.799 69.72
LOCATION L0001051    VOLUME  403436.492 3759570.343 69.64
LOCATION L0001052    VOLUME  403440.760 3759562.888 69.55
LOCATION L0001053    VOLUME  403445.028 3759555.432 69.44
LOCATION L0001054    VOLUME  403449.295 3759547.976 69.28
LOCATION L0001055    VOLUME  403453.563 3759540.520 69.16
LOCATION L0001056    VOLUME  403457.831 3759533.065 69.03
LOCATION L0001057    VOLUME  403462.098 3759525.609 68.88
LOCATION L0001058    VOLUME  403466.366 3759518.153 68.78
LOCATION L0001059    VOLUME  403470.634 3759510.697 68.77
LOCATION L0001060    VOLUME  403474.901 3759503.241 68.75
LOCATION L0001061    VOLUME  403479.169 3759495.786 68.72
LOCATION L0001062    VOLUME  403483.437 3759488.330 68.63
LOCATION L0001063    VOLUME  403487.705 3759480.874 68.52
LOCATION L0001064    VOLUME  403491.972 3759473.418 68.41
LOCATION L0001065    VOLUME  403496.240 3759465.962 68.30
LOCATION L0001066    VOLUME  403500.508 3759458.507 68.20
LOCATION L0001067    VOLUME  403504.775 3759451.051 68.09
LOCATION L0001068    VOLUME  403510.793 3759446.613 68.07
LOCATION L0001069    VOLUME  403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.02E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63

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** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00

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** -----
LOCATION L0001070    VOLUME  403528.969 3759452.019 68.52
LOCATION L0001071    VOLUME  403533.259 3759444.576 68.43
LOCATION L0001072    VOLUME  403537.549 3759437.134 68.33
LOCATION L0001073    VOLUME  403541.839 3759429.691 68.23
LOCATION L0001074    VOLUME  403546.129 3759422.248 68.12
LOCATION L0001075    VOLUME  403550.419 3759414.805 68.02
LOCATION L0001076    VOLUME  403554.709 3759407.362 67.93
LOCATION L0001077    VOLUME  403558.999 3759399.919 67.88
LOCATION L0001078    VOLUME  403563.318 3759392.492 67.86
LOCATION L0001079    VOLUME  403567.673 3759385.088 67.79
LOCATION L0001080    VOLUME  403572.029 3759377.683 67.69
LOCATION L0001081    VOLUME  403576.385 3759370.278 67.54
LOCATION L0001082    VOLUME  403580.740 3759362.873 67.43
LOCATION L0001083    VOLUME  403585.096 3759355.469 67.29
LOCATION L0001084    VOLUME  403589.452 3759348.064 67.11
LOCATION L0001085    VOLUME  403593.834 3759340.675 66.91
LOCATION L0001086    VOLUME  403598.226 3759333.291 66.71
LOCATION L0001087    VOLUME  403602.617 3759325.908 66.55
LOCATION L0001088    VOLUME  403607.009 3759318.525 66.41
LOCATION L0001089    VOLUME  403611.401 3759311.141 66.32
LOCATION L0001090    VOLUME  403615.793 3759303.758 66.26
LOCATION L0001091    VOLUME  403620.161 3759296.361 66.20
LOCATION L0001092    VOLUME  403624.410 3759288.895 66.08
LOCATION L0001093    VOLUME  403628.660 3759281.429 65.92
LOCATION L0001094    VOLUME  403632.910 3759273.963 65.87
LOCATION L0001095    VOLUME  403637.160 3759266.497 65.80
LOCATION L0001096    VOLUME  403641.410 3759259.031 65.70
LOCATION L0001097    VOLUME  403645.660 3759251.565 65.55
LOCATION L0001098    VOLUME  403649.909 3759244.099 65.38
LOCATION L0001099    VOLUME  403654.159 3759236.633 65.20
LOCATION L0001100    VOLUME  403658.409 3759229.167 65.08
LOCATION L0001101    VOLUME  403662.659 3759221.701 65.03
LOCATION L0001102    VOLUME  403666.955 3759214.262 65.06
LOCATION L0001103    VOLUME  403671.375 3759206.896 65.18
LOCATION L0001104    VOLUME  403675.795 3759199.529 65.30

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LOCATION	L0001105	VOLUME	403680.215	3759192.163	65.28
LOCATION	L0001106	VOLUME	403684.635	3759184.796	65.20
LOCATION	L0001107	VOLUME	403689.079	3759177.444	65.11
LOCATION	L0001108	VOLUME	403693.552	3759170.109	65.01
LOCATION	L0001109	VOLUME	403697.816	3759162.676	64.98
LOCATION	L0001110	VOLUME	403700.416	3759154.521	64.94
LOCATION	L0001111	VOLUME	403700.306	3759146.054	64.83
LOCATION	L0001112	VOLUME	403696.345	3759138.468	64.60
LOCATION	L0001113	VOLUME	403689.548	3759133.215	64.32
LOCATION	L0001114	VOLUME	403681.516	3759131.396	64.05
LOCATION	L0001115	VOLUME	403672.929	3759131.119	63.79
LOCATION	L0001116	VOLUME	403664.343	3759130.842	63.54
LOCATION	L0001117	VOLUME	403655.780	3759130.201	63.27
LOCATION	L0001118	VOLUME	403647.228	3759129.386	62.98
LOCATION	L0001119	VOLUME	403638.676	3759128.572	62.66
LOCATION	L0001120	VOLUME	403630.194	3759127.265	62.32
LOCATION	L0001121	VOLUME	403621.759	3759125.636	61.99
LOCATION	L0001122	VOLUME	403613.325	3759124.006	61.67
LOCATION	L0001123	VOLUME	403604.890	3759122.377	61.37
LOCATION	L0001124	VOLUME	403596.455	3759120.748	61.06
LOCATION	L0001125	VOLUME	403588.020	3759119.119	60.80
LOCATION	L0001126	VOLUME	403579.585	3759117.489	60.59
LOCATION	L0001127	VOLUME	403571.150	3759115.860	60.42
LOCATION	L0001128	VOLUME	403562.715	3759114.231	60.30
LOCATION	L0001129	VOLUME	403554.280	3759112.602	60.14
LOCATION	L0001130	VOLUME	403545.845	3759110.973	59.97
LOCATION	L0001131	VOLUME	403537.411	3759109.343	59.86
LOCATION	L0001132	VOLUME	403528.976	3759107.714	59.74
LOCATION	L0001133	VOLUME	403520.541	3759106.085	59.62
LOCATION	L0001134	VOLUME	403512.106	3759104.456	59.52
LOCATION	L0001135	VOLUME	403503.671	3759102.826	59.41
LOCATION	L0001136	VOLUME	403495.236	3759101.197	59.29
LOCATION	L0001137	VOLUME	403486.801	3759099.568	59.11
LOCATION	L0001138	VOLUME	403478.366	3759097.939	58.94
LOCATION	L0001139	VOLUME	403469.931	3759096.310	58.75
LOCATION	L0001140	VOLUME	403461.496	3759094.680	58.50
LOCATION	L0001141	VOLUME	403453.062	3759093.051	58.26
LOCATION	L0001142	VOLUME	403444.627	3759091.422	58.02
LOCATION	L0001143	VOLUME	403436.192	3759089.793	57.76
LOCATION	L0001144	VOLUME	403427.757	3759088.163	57.55
LOCATION	L0001145	VOLUME	403419.322	3759086.534	57.37
LOCATION	L0001146	VOLUME	403410.887	3759084.905	57.32
LOCATION	L0001147	VOLUME	403402.452	3759083.276	57.24
LOCATION	L0001148	VOLUME	403394.017	3759081.647	57.13
LOCATION	L0001149	VOLUME	403385.582	3759080.017	57.09
LOCATION	L0001150	VOLUME	403377.147	3759078.388	57.03
LOCATION	L0001151	VOLUME	403368.713	3759076.759	56.95
LOCATION	L0001152	VOLUME	403360.278	3759075.130	56.89
LOCATION	L0001153	VOLUME	403351.843	3759073.500	56.84
LOCATION	L0001154	VOLUME	403343.408	3759071.871	56.78
LOCATION	L0001155	VOLUME	403334.973	3759070.242	56.72

LOCATION	VOLUME				
L0001156	403326.538	3759068.613	56.65		
L0001157	403318.103	3759066.984	56.57		
L0001158	403309.668	3759065.354	56.37		
L0001159	403301.233	3759063.725	56.17		
L0001160	403292.799	3759062.096	55.97		
L0001161	403284.364	3759060.467	55.70		
L0001162	403275.929	3759058.837	55.41		
L0001163	403267.494	3759057.208	55.13		
L0001164	403259.059	3759055.579	54.93		
L0001165	403250.624	3759053.950	54.75		
L0001166	403242.189	3759052.321	54.55		
L0001167	403233.754	3759050.691	54.50		
L0001168	403225.319	3759049.062	54.47		
L0001169	403216.884	3759047.433	54.40		
L0001170	403208.450	3759045.804	54.23		
L0001171	403200.015	3759044.174	54.01		
L0001172	403191.580	3759042.545	53.80		
L0001173	403183.145	3759040.916	53.54		
L0001174	403174.710	3759039.287	53.26		
L0001175	403166.275	3759037.658	53.01		
L0001176	403157.840	3759036.028	52.81		
L0001177	403149.405	3759034.399	52.62		
L0001178	403140.970	3759032.770	52.43		
L0001179	403132.535	3759031.141	52.25		

** End of LINE VOLUME Source ID = SLINE3

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE4

** DESCRSRC Northbound along Whitter Blvd

** PREFIX

** Length of Side = 10.11

** Configuration = Adjacent

** Emission Rate = 4.59E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 7

** 403541.907, 3759460.234, 69.09, 3.50, 4.70

** 403548.291, 3759465.199, 69.37, 3.50, 4.70

** 403540.134, 3759487.187, 69.75, 3.50, 4.70

** 403492.611, 3759570.175, 70.72, 3.50, 4.70

** 403452.890, 3759640.041, 71.88, 3.50, 4.70

** 403398.984, 3759724.801, 72.44, 3.50, 4.70

** 403007.874, 3760386.371, 71.03, 3.50, 4.70

** -----

LOCATION L0001180	VOLUME	403545.899	3759463.339	69.32
LOCATION L0001181	VOLUME	403545.826	3759471.842	69.48
LOCATION L0001182	VOLUME	403542.308	3759481.325	69.66
LOCATION L0001183	VOLUME	403538.215	3759490.539	69.93
LOCATION L0001184	VOLUME	403533.188	3759499.317	70.12
LOCATION L0001185	VOLUME	403528.162	3759508.094	70.18

LOCATION	L0001186	VOLUME	403523.135	3759516.871	70.13
LOCATION	L0001187	VOLUME	403518.109	3759525.649	70.26
LOCATION	L0001188	VOLUME	403513.082	3759534.426	70.53
LOCATION	L0001189	VOLUME	403508.056	3759543.204	70.83
LOCATION	L0001190	VOLUME	403503.030	3759551.981	71.13
LOCATION	L0001191	VOLUME	403498.003	3759560.759	71.07
LOCATION	L0001192	VOLUME	403492.977	3759569.536	71.01
LOCATION	L0001193	VOLUME	403487.976	3759578.328	70.99
LOCATION	L0001194	VOLUME	403482.977	3759587.121	71.05
LOCATION	L0001195	VOLUME	403477.977	3759595.914	71.14
LOCATION	L0001196	VOLUME	403472.978	3759604.708	71.24
LOCATION	L0001197	VOLUME	403467.979	3759613.501	71.43
LOCATION	L0001198	VOLUME	403462.980	3759622.294	71.63
LOCATION	L0001199	VOLUME	403457.981	3759631.087	71.77
LOCATION	L0001200	VOLUME	403452.982	3759639.880	71.85
LOCATION	L0001201	VOLUME	403447.562	3759648.419	71.87
LOCATION	L0001202	VOLUME	403442.134	3759656.954	71.94
LOCATION	L0001203	VOLUME	403436.705	3759665.489	72.05
LOCATION	L0001204	VOLUME	403431.277	3759674.024	72.20
LOCATION	L0001205	VOLUME	403425.849	3759682.559	72.31
LOCATION	L0001206	VOLUME	403420.421	3759691.094	72.30
LOCATION	L0001207	VOLUME	403414.993	3759699.629	72.34
LOCATION	L0001208	VOLUME	403409.565	3759708.164	72.42
LOCATION	L0001209	VOLUME	403404.137	3759716.699	72.47
LOCATION	L0001210	VOLUME	403398.723	3759725.243	72.48
LOCATION	L0001211	VOLUME	403393.576	3759733.950	72.47
LOCATION	L0001212	VOLUME	403388.428	3759742.657	72.44
LOCATION	L0001213	VOLUME	403383.281	3759751.364	72.37
LOCATION	L0001214	VOLUME	403378.133	3759760.071	72.29
LOCATION	L0001215	VOLUME	403372.986	3759768.778	72.20
LOCATION	L0001216	VOLUME	403367.838	3759777.485	72.12
LOCATION	L0001217	VOLUME	403362.691	3759786.192	72.06
LOCATION	L0001218	VOLUME	403357.543	3759794.899	72.03
LOCATION	L0001219	VOLUME	403352.396	3759803.606	72.02
LOCATION	L0001220	VOLUME	403347.248	3759812.313	71.99
LOCATION	L0001221	VOLUME	403342.101	3759821.020	71.94
LOCATION	L0001222	VOLUME	403336.953	3759829.727	71.89
LOCATION	L0001223	VOLUME	403331.806	3759838.434	71.81
LOCATION	L0001224	VOLUME	403326.658	3759847.141	71.78
LOCATION	L0001225	VOLUME	403321.511	3759855.848	71.74
LOCATION	L0001226	VOLUME	403316.364	3759864.555	71.66
LOCATION	L0001227	VOLUME	403311.216	3759873.262	71.53
LOCATION	L0001228	VOLUME	403306.069	3759881.969	71.43
LOCATION	L0001229	VOLUME	403300.921	3759890.677	71.36
LOCATION	L0001230	VOLUME	403295.774	3759899.384	71.35
LOCATION	L0001231	VOLUME	403290.626	3759908.091	71.32
LOCATION	L0001232	VOLUME	403285.479	3759916.798	71.27
LOCATION	L0001233	VOLUME	403280.331	3759925.505	71.20
LOCATION	L0001234	VOLUME	403275.184	3759934.212	71.19
LOCATION	L0001235	VOLUME	403270.036	3759942.919	71.22
LOCATION	L0001236	VOLUME	403264.889	3759951.626	71.20

LOCATION	L0001237	VOLUME	403259.741	3759960.333	71.10
LOCATION	L0001238	VOLUME	403254.594	3759969.040	71.01
LOCATION	L0001239	VOLUME	403249.446	3759977.747	70.98
LOCATION	L0001240	VOLUME	403244.299	3759986.454	70.96
LOCATION	L0001241	VOLUME	403239.151	3759995.161	70.92
LOCATION	L0001242	VOLUME	403234.004	3760003.868	70.88
LOCATION	L0001243	VOLUME	403228.856	3760012.575	70.84
LOCATION	L0001244	VOLUME	403223.709	3760021.282	70.80
LOCATION	L0001245	VOLUME	403218.561	3760029.989	70.75
LOCATION	L0001246	VOLUME	403213.414	3760038.696	70.67
LOCATION	L0001247	VOLUME	403208.267	3760047.403	70.56
LOCATION	L0001248	VOLUME	403203.119	3760056.110	70.47
LOCATION	L0001249	VOLUME	403197.972	3760064.817	70.46
LOCATION	L0001250	VOLUME	403192.824	3760073.525	70.49
LOCATION	L0001251	VOLUME	403187.677	3760082.232	70.47
LOCATION	L0001252	VOLUME	403182.529	3760090.939	70.45
LOCATION	L0001253	VOLUME	403177.382	3760099.646	70.42
LOCATION	L0001254	VOLUME	403172.234	3760108.353	70.40
LOCATION	L0001255	VOLUME	403167.087	3760117.060	70.47
LOCATION	L0001256	VOLUME	403161.939	3760125.767	70.47
LOCATION	L0001257	VOLUME	403156.792	3760134.474	70.40
LOCATION	L0001258	VOLUME	403151.644	3760143.181	70.29
LOCATION	L0001259	VOLUME	403146.497	3760151.888	70.32
LOCATION	L0001260	VOLUME	403141.349	3760160.595	70.34
LOCATION	L0001261	VOLUME	403136.202	3760169.302	70.30
LOCATION	L0001262	VOLUME	403131.054	3760178.009	70.19
LOCATION	L0001263	VOLUME	403125.907	3760186.716	70.07
LOCATION	L0001264	VOLUME	403120.759	3760195.423	69.98
LOCATION	L0001265	VOLUME	403115.612	3760204.130	69.95
LOCATION	L0001266	VOLUME	403110.464	3760212.837	70.08
LOCATION	L0001267	VOLUME	403105.317	3760221.544	70.15
LOCATION	L0001268	VOLUME	403100.170	3760230.251	70.18
LOCATION	L0001269	VOLUME	403095.022	3760238.958	70.24
LOCATION	L0001270	VOLUME	403089.875	3760247.665	70.34
LOCATION	L0001271	VOLUME	403084.727	3760256.373	70.40
LOCATION	L0001272	VOLUME	403079.580	3760265.080	70.43
LOCATION	L0001273	VOLUME	403074.432	3760273.787	70.55
LOCATION	L0001274	VOLUME	403069.285	3760282.494	70.74
LOCATION	L0001275	VOLUME	403064.137	3760291.201	70.91
LOCATION	L0001276	VOLUME	403058.990	3760299.908	71.04
LOCATION	L0001277	VOLUME	403053.842	3760308.615	71.16
LOCATION	L0001278	VOLUME	403048.695	3760317.322	71.30
LOCATION	L0001279	VOLUME	403043.547	3760326.029	71.36
LOCATION	L0001280	VOLUME	403038.400	3760334.736	71.25
LOCATION	L0001281	VOLUME	403033.252	3760343.443	71.12
LOCATION	L0001282	VOLUME	403028.105	3760352.150	70.98
LOCATION	L0001283	VOLUME	403022.957	3760360.857	70.90
LOCATION	L0001284	VOLUME	403017.810	3760369.564	71.03
LOCATION	L0001285	VOLUME	403012.662	3760378.271	71.07

** End of LINE VOLUME Source ID = SLINE4

** Source Parameters **

SRCPARAM	STCK1	6.83E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK2	6.83E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK3	6.83E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK4	6.83E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK5	6.83E-06	3.500	366.000	51.9	0.1
**	LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0001013	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001014	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001015	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001016	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001017	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001018	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001019	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001020	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001021	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001022	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001023	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001024	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001025	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001026	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001027	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001028	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001029	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001030	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001031	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001032	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001033	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001034	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001035	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001036	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001037	0.0000001215	3.50	4.00	4.96	
SRCPARAM	L0001038	0.0000001215	3.50	4.00	4.96	
**	-----					
**	LINE VOLUME Source ID = SLINE2					
SRCPARAM	L0001039	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001040	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001041	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001042	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001043	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001044	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001045	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001046	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001047	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001048	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001049	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001050	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001051	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001052	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001053	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001054	0.00000007258	3.50	4.00	1.63	
SRCPARAM	L0001055	0.00000007258	3.50	4.00	1.63	

SRCPARAM	L0001056	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001057	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001058	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001059	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001060	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001061	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001062	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001063	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001064	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001065	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001066	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001067	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001068	0.00000007258	3.50	4.00	1.63
SRCPARAM	L0001069	0.00000007258	3.50	4.00	1.63

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** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0001070	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001071	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001072	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001073	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001074	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001075	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001076	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001077	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001078	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001079	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001080	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001081	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001082	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001083	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001084	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001085	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001086	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001087	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001088	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001089	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001090	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001091	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001092	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001093	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001094	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001095	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001096	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001097	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001098	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001099	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001100	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001101	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001102	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001103	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001104	0.00000003655	3.50	4.00	1.63

SRCPARAM	L0001156	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001157	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001158	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001159	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001160	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001161	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001162	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001163	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001164	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001165	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001166	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001167	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001168	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001169	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001170	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001171	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001172	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001173	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001174	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001175	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001176	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001177	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001178	0.00000003655	3.50	4.00	1.63
SRCPARAM	L0001179	0.00000003655	3.50	4.00	1.63

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** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0001180	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001181	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001182	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001183	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001184	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001185	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001186	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001187	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001188	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001189	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001190	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001191	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001192	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001193	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001194	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001195	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001196	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001197	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001198	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001199	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001200	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001201	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001202	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001203	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001204	0.0000000433	3.50	4.70	1.63

SRCPARAM	L0001256	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001257	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001258	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001259	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001260	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001261	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001262	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001263	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001264	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001265	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001266	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001267	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001268	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001269	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001270	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001271	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001272	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001273	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001274	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001275	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001276	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001277	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001278	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001279	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001280	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001281	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001282	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001283	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001284	0.0000000433	3.50	4.70	1.63
SRCPARAM	L0001285	0.0000000433	3.50	4.70	1.63

** -----

** Building Downwash **

BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67

BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66

BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
XBADJ	STCK1	-18.55	-25.03	-30.75	-35.54	-39.24	-41.98
XBADJ	STCK1	-50.16	-56.82	-61.76	-77.50	-92.58	-104.85
XBADJ	STCK1	-113.93	-119.55	-121.54	-151.31	-178.11	-199.50
XBADJ	STCK1	-214.83	-225.08	-228.50	-224.98	-214.62	-201.31
XBADJ	STCK1	-196.71	-186.13	-169.90	-148.51	-122.60	-93.84
XBADJ	STCK1	-64.84	-33.87	-2.58	3.41	-4.11	-11.50
XBADJ	STCK2	-61.85	-77.35	-90.51	-100.91	-108.25	-112.51
XBADJ	STCK2	-120.08	-124.01	-124.17	-133.23	-139.95	-142.41
XBADJ	STCK2	-140.55	-134.41	-124.20	-141.67	-156.48	-166.53
XBADJ	STCK2	-171.52	-172.76	-168.74	-159.61	-145.62	-130.77
XBADJ	STCK2	-126.79	-118.94	-107.49	-92.77	-75.23	-56.27
XBADJ	STCK2	-38.22	-19.01	0.07	-6.22	-25.74	-44.47
XBADJ	STCK3	-31.60	-41.18	-49.50	-56.31	-61.42	-64.88

XBADJ	STCK3	-73.09	-79.09	-82.68	-96.44	-108.96	-118.18
XBADJ	STCK3	-123.81	-125.67	-123.72	-149.47	-172.32	-189.93
XBADJ	STCK3	-201.77	-208.94	-209.75	-204.20	-192.44	-178.41
XBADJ	STCK3	-173.78	-163.87	-148.98	-129.57	-106.21	-80.50
XBADJ	STCK3	-54.96	-27.75	-0.41	1.58	-9.90	-21.07
XBADJ	STCK4	-84.78	-104.42	-120.88	-133.68	-142.41	-147.03
XBADJ	STCK4	-153.92	-156.13	-153.59	-159.07	-161.41	-158.85
XBADJ	STCK4	-151.46	-139.47	-123.24	-134.73	-143.77	-148.44
XBADJ	STCK4	-148.60	-145.70	-138.37	-126.84	-111.45	-96.25
XBADJ	STCK4	-92.95	-86.83	-78.07	-66.94	-53.77	-39.84
XBADJ	STCK4	-27.31	-13.95	-0.88	-13.16	-38.44	-62.56
XBADJ	STCK5	-97.03	-123.24	-145.70	-163.73	0.00	0.00
XBADJ	STCK5	-193.72	-196.86	-194.01	-197.95	-197.57	-191.19
XBADJ	STCK5	-179.00	-161.37	-138.84	-143.56	-145.55	-143.12
XBADJ	STCK5	-136.34	-126.87	-113.55	-96.78	0.00	0.00
XBADJ	STCK5	-53.15	-46.10	-37.65	-28.06	-17.61	-7.49
XBADJ	STCK5	0.23	7.95	14.72	-4.33	-36.66	-67.88
YBADJ	STCK1	-35.50	-15.01	5.51	24.55	42.84	59.48
YBADJ	STCK1	77.36	87.00	94.00	98.14	100.03	98.88
YBADJ	STCK1	94.72	87.69	79.67	73.27	64.65	54.07
YBADJ	STCK1	35.50	15.01	-5.51	-24.55	-42.84	-59.48
YBADJ	STCK1	-77.36	-87.00	-94.00	-98.14	-100.03	-98.88
YBADJ	STCK1	-94.72	-87.69	-79.67	-73.27	-64.65	-54.07
YBADJ	STCK2	20.23	32.36	43.07	51.16	57.70	62.13
YBADJ	STCK2	67.72	65.37	61.03	54.84	47.70	39.12
YBADJ	STCK2	29.35	18.69	9.13	3.35	-2.53	-8.34
YBADJ	STCK2	-20.23	-32.36	-43.07	-51.16	-57.70	-62.13
YBADJ	STCK2	-67.72	-65.37	-61.03	-54.84	-47.70	-39.12
YBADJ	STCK2	-29.35	-18.69	-9.13	-3.35	2.53	8.34
YBADJ	STCK3	-16.56	1.38	18.84	34.42	48.96	61.65
YBADJ	STCK3	75.52	81.21	84.43	85.08	83.88	80.13
YBADJ	STCK3	73.94	65.51	56.76	50.34	42.39	33.15
YBADJ	STCK3	16.56	-1.38	-18.84	-34.42	-48.96	-61.65
YBADJ	STCK3	-75.52	-81.21	-84.43	-85.08	-83.88	-80.13
YBADJ	STCK3	-73.94	-65.51	-56.76	-50.34	-42.39	-33.15
YBADJ	STCK4	46.06	53.82	59.50	62.07	62.76	61.18
YBADJ	STCK4	60.79	52.66	42.94	31.91	20.64	8.74
YBADJ	STCK4	-3.42	-15.48	-25.39	-30.48	-34.65	-37.76
YBADJ	STCK4	-46.06	-53.82	-59.50	-62.07	-62.76	-61.18
YBADJ	STCK4	-60.79	-52.66	-42.94	-31.91	-20.64	-8.74
YBADJ	STCK4	3.42	15.48	25.39	30.48	34.65	37.76
YBADJ	STCK5	84.95	89.98	91.85	89.62	0.00	0.00
YBADJ	STCK5	69.61	54.44	37.62	19.65	1.82	-16.07
YBADJ	STCK5	-33.48	-49.86	-63.06	-70.28	-75.38	-78.18

YBADJ	STCK5	-84.95	-89.98	-91.85	-89.62	0.00	0.00
YBADJ	STCK5	-69.61	-54.44	-37.62	-19.65	-1.82	16.07
YBADJ	STCK5	33.48	49.86	63.06	70.28	75.38	78.18

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19391 Whittier Blvd BP 1st 14 YR.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"

PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"

SURFDATA 3166 2010

UAIRDATA 3190 2010

SITEDATA 99999 2010

PROFBASE 58.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19391 WHITTIER BLVD BP 1ST 14 YR.AD\PE00GALL.PLT" 31

SUMMFILE "19391 Whittier Blvd BP 1st 14 YR.sum"

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	7 Warning Message(s)
A Total of	0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 22112 ***	*** 19391 Whittier Blvd BP	***	06/26/23
*** AERMET - VERSION 16216 ***	*** DPM Concentrations 14YR 2027-2040	***	19:04:48
*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*			PAGE 1

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 278 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * 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: 278 Source(s); 1 Source Group(s); and 450 Receptor(s)

```

with:      5 POINT(s), including
           0 POINTCAP(s) and    0 POINTHOR(s)
and:      273 VOLUME source(s)
and:      0 AREA type source(s)
and:      0 LINE source(s)
and:      0 RLINE/RLINEXT source(s)
and:      0 OPENPIT source(s)
and:      0 BUOYANT LINE source(s) with a total of    0 line(s)
and:      0 SWPOINT source(s)

```

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 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)

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**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) = 58.00 ; 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 = 4.0 MB of RAM.

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

**Detailed Error/Message File: 19391 Whittier Blvd BP 1st 14 YR.err
**File for Summary of Results: 19391 Whittier Blvd BP 1st 14 YR.sum

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*** AERMOD - VERSION 22112 ***    *** 19391 Whittier Blvd BP                    ***    06/26/23
*** AERMET - VERSION 16216 ***    *** DPM Concentrations 14YR 2027-2040        ***    19:04:48
*** MODELOPTs:   RegDFAULT CONC  ELEV  URBAN  ADJ_U*                               ***    PAGE  2

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*** 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	0.68300E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	

STCK2	0	0.68300E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO
STCK3	0	0.68300E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO
STCK4	0	0.68300E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO
STCK5	0	0.68300E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040 ***
 06/26/23
 19:04:48
 PAGE 3

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001013	0	0.12150E-06	403373.9	3759654.0	68.8	3.50	4.00	4.96	YES	
L0001014	0	0.12150E-06	403367.6	3759648.2	68.2	3.50	4.00	4.96	YES	
L0001015	0	0.12150E-06	403361.9	3759641.8	68.2	3.50	4.00	4.96	YES	
L0001016	0	0.12150E-06	403355.7	3759635.8	68.2	3.50	4.00	4.96	YES	
L0001017	0	0.12150E-06	403348.6	3759631.2	68.1	3.50	4.00	4.96	YES	
L0001018	0	0.12150E-06	403341.0	3759627.0	68.1	3.50	4.00	4.96	YES	
L0001019	0	0.12150E-06	403333.5	3759622.9	68.0	3.50	4.00	4.96	YES	
L0001020	0	0.12150E-06	403326.0	3759618.8	67.8	3.50	4.00	4.96	YES	
L0001021	0	0.12150E-06	403318.5	3759614.6	67.7	3.50	4.00	4.96	YES	
L0001022	0	0.12150E-06	403311.0	3759610.4	67.7	3.50	4.00	4.96	YES	
L0001023	0	0.12150E-06	403303.5	3759606.1	67.6	3.50	4.00	4.96	YES	
L0001024	0	0.12150E-06	403296.0	3759601.9	67.6	3.50	4.00	4.96	YES	
L0001025	0	0.12150E-06	403288.6	3759597.7	67.5	3.50	4.00	4.96	YES	
L0001026	0	0.12150E-06	403281.1	3759593.4	67.5	3.50	4.00	4.96	YES	
L0001027	0	0.12150E-06	403273.6	3759589.2	67.4	3.50	4.00	4.96	YES	
L0001028	0	0.12150E-06	403266.1	3759585.0	67.4	3.50	4.00	4.96	YES	
L0001029	0	0.12150E-06	403258.6	3759580.7	67.2	3.50	4.00	4.96	YES	
L0001030	0	0.12150E-06	403251.2	3759576.5	67.1	3.50	4.00	4.96	YES	
L0001031	0	0.12150E-06	403243.7	3759572.3	67.0	3.50	4.00	4.96	YES	
L0001032	0	0.12150E-06	403236.2	3759568.1	66.9	3.50	4.00	4.96	YES	
L0001033	0	0.12150E-06	403228.7	3759563.8	66.8	3.50	4.00	4.96	YES	
L0001034	0	0.12150E-06	403221.3	3759559.6	66.8	3.50	4.00	4.96	YES	
L0001035	0	0.12150E-06	403213.8	3759555.4	66.7	3.50	4.00	4.96	YES	
L0001036	0	0.12150E-06	403206.3	3759551.1	66.5	3.50	4.00	4.96	YES	
L0001037	0	0.12150E-06	403198.8	3759546.9	66.2	3.50	4.00	4.96	YES	
L0001038	0	0.12150E-06	403191.3	3759542.7	65.9	3.50	4.00	4.96	YES	
L0001039	0	0.72580E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	
L0001040	0	0.72580E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES	
L0001041	0	0.72580E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES	
L0001042	0	0.72580E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES	
L0001043	0	0.72580E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES	
L0001044	0	0.72580E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES	
L0001045	0	0.72580E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES	

L0001046	0	0.72580E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0001047	0	0.72580E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0001048	0	0.72580E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0001049	0	0.72580E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0001050	0	0.72580E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0001051	0	0.72580E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0001052	0	0.72580E-07	403440.8	3759562.9	69.5	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
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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
L0001053	0	0.72580E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0001054	0	0.72580E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0001055	0	0.72580E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0001056	0	0.72580E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0001057	0	0.72580E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0001058	0	0.72580E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0001059	0	0.72580E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0001060	0	0.72580E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0001061	0	0.72580E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0001062	0	0.72580E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0001063	0	0.72580E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0001064	0	0.72580E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0001065	0	0.72580E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0001066	0	0.72580E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0001067	0	0.72580E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0001068	0	0.72580E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0001069	0	0.72580E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0001070	0	0.36550E-07	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0001071	0	0.36550E-07	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0001072	0	0.36550E-07	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0001073	0	0.36550E-07	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0001074	0	0.36550E-07	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0001075	0	0.36550E-07	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0001076	0	0.36550E-07	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	
L0001077	0	0.36550E-07	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES	
L0001078	0	0.36550E-07	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES	
L0001079	0	0.36550E-07	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES	
L0001080	0	0.36550E-07	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES	
L0001081	0	0.36550E-07	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES	
L0001082	0	0.36550E-07	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES	

L0001083	0	0.36550E-07	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0001084	0	0.36550E-07	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0001085	0	0.36550E-07	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0001086	0	0.36550E-07	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0001087	0	0.36550E-07	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0001088	0	0.36550E-07	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0001089	0	0.36550E-07	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0001090	0	0.36550E-07	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0001091	0	0.36550E-07	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0001092	0	0.36550E-07	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
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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
L0001093	0	0.36550E-07	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES	
L0001094	0	0.36550E-07	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES	
L0001095	0	0.36550E-07	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES	
L0001096	0	0.36550E-07	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES	
L0001097	0	0.36550E-07	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES	
L0001098	0	0.36550E-07	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES	
L0001099	0	0.36550E-07	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES	
L0001100	0	0.36550E-07	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES	
L0001101	0	0.36550E-07	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES	
L0001102	0	0.36550E-07	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES	
L0001103	0	0.36550E-07	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES	
L0001104	0	0.36550E-07	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES	
L0001105	0	0.36550E-07	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES	
L0001106	0	0.36550E-07	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES	
L0001107	0	0.36550E-07	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES	
L0001108	0	0.36550E-07	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES	
L0001109	0	0.36550E-07	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES	
L0001110	0	0.36550E-07	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES	
L0001111	0	0.36550E-07	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES	
L0001112	0	0.36550E-07	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES	
L0001113	0	0.36550E-07	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES	
L0001114	0	0.36550E-07	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES	
L0001115	0	0.36550E-07	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES	
L0001116	0	0.36550E-07	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES	
L0001117	0	0.36550E-07	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES	
L0001118	0	0.36550E-07	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES	
L0001119	0	0.36550E-07	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES	

L0001120	0	0.36550E-07	403630.2	3759127.3	62.3	3.50	4.00	1.63	YES
L0001121	0	0.36550E-07	403621.8	3759125.6	62.0	3.50	4.00	1.63	YES
L0001122	0	0.36550E-07	403613.3	3759124.0	61.7	3.50	4.00	1.63	YES
L0001123	0	0.36550E-07	403604.9	3759122.4	61.4	3.50	4.00	1.63	YES
L0001124	0	0.36550E-07	403596.5	3759120.7	61.1	3.50	4.00	1.63	YES
L0001125	0	0.36550E-07	403588.0	3759119.1	60.8	3.50	4.00	1.63	YES
L0001126	0	0.36550E-07	403579.6	3759117.5	60.6	3.50	4.00	1.63	YES
L0001127	0	0.36550E-07	403571.1	3759115.9	60.4	3.50	4.00	1.63	YES
L0001128	0	0.36550E-07	403562.7	3759114.2	60.3	3.50	4.00	1.63	YES
L0001129	0	0.36550E-07	403554.3	3759112.6	60.1	3.50	4.00	1.63	YES
L0001130	0	0.36550E-07	403545.8	3759111.0	60.0	3.50	4.00	1.63	YES
L0001131	0	0.36550E-07	403537.4	3759109.3	59.9	3.50	4.00	1.63	YES
L0001132	0	0.36550E-07	403529.0	3759107.7	59.7	3.50	4.00	1.63	YES

*** AERMOC - VERSION 22112 *** *** 19391 Whittier Blvd BP ***
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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
L0001133	0	0.36550E-07	403520.5	3759106.1	59.6	3.50	4.00	1.63	YES	
L0001134	0	0.36550E-07	403512.1	3759104.5	59.5	3.50	4.00	1.63	YES	
L0001135	0	0.36550E-07	403503.7	3759102.8	59.4	3.50	4.00	1.63	YES	
L0001136	0	0.36550E-07	403495.2	3759101.2	59.3	3.50	4.00	1.63	YES	
L0001137	0	0.36550E-07	403486.8	3759099.6	59.1	3.50	4.00	1.63	YES	
L0001138	0	0.36550E-07	403478.4	3759097.9	58.9	3.50	4.00	1.63	YES	
L0001139	0	0.36550E-07	403469.9	3759096.3	58.8	3.50	4.00	1.63	YES	
L0001140	0	0.36550E-07	403461.5	3759094.7	58.5	3.50	4.00	1.63	YES	
L0001141	0	0.36550E-07	403453.1	3759093.1	58.3	3.50	4.00	1.63	YES	
L0001142	0	0.36550E-07	403444.6	3759091.4	58.0	3.50	4.00	1.63	YES	
L0001143	0	0.36550E-07	403436.2	3759089.8	57.8	3.50	4.00	1.63	YES	
L0001144	0	0.36550E-07	403427.8	3759088.2	57.5	3.50	4.00	1.63	YES	
L0001145	0	0.36550E-07	403419.3	3759086.5	57.4	3.50	4.00	1.63	YES	
L0001146	0	0.36550E-07	403410.9	3759084.9	57.3	3.50	4.00	1.63	YES	
L0001147	0	0.36550E-07	403402.5	3759083.3	57.2	3.50	4.00	1.63	YES	
L0001148	0	0.36550E-07	403394.0	3759081.6	57.1	3.50	4.00	1.63	YES	
L0001149	0	0.36550E-07	403385.6	3759080.0	57.1	3.50	4.00	1.63	YES	
L0001150	0	0.36550E-07	403377.1	3759078.4	57.0	3.50	4.00	1.63	YES	
L0001151	0	0.36550E-07	403368.7	3759076.8	56.9	3.50	4.00	1.63	YES	
L0001152	0	0.36550E-07	403360.3	3759075.1	56.9	3.50	4.00	1.63	YES	
L0001153	0	0.36550E-07	403351.8	3759073.5	56.8	3.50	4.00	1.63	YES	
L0001154	0	0.36550E-07	403343.4	3759071.9	56.8	3.50	4.00	1.63	YES	
L0001155	0	0.36550E-07	403335.0	3759070.2	56.7	3.50	4.00	1.63	YES	
L0001156	0	0.36550E-07	403326.5	3759068.6	56.6	3.50	4.00	1.63	YES	

L0001157	0	0.36550E-07	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0001158	0	0.36550E-07	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0001159	0	0.36550E-07	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0001160	0	0.36550E-07	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0001161	0	0.36550E-07	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0001162	0	0.36550E-07	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0001163	0	0.36550E-07	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0001164	0	0.36550E-07	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0001165	0	0.36550E-07	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0001166	0	0.36550E-07	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0001167	0	0.36550E-07	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0001168	0	0.36550E-07	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0001169	0	0.36550E-07	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0001170	0	0.36550E-07	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0001171	0	0.36550E-07	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0001172	0	0.36550E-07	403191.6	3759042.5	53.8	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040 ***
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** 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
L0001173	0	0.36550E-07	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0001174	0	0.36550E-07	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0001175	0	0.36550E-07	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0001176	0	0.36550E-07	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0001177	0	0.36550E-07	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0001178	0	0.36550E-07	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0001179	0	0.36550E-07	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0001180	0	0.43300E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0001181	0	0.43300E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0001182	0	0.43300E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0001183	0	0.43300E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0001184	0	0.43300E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0001185	0	0.43300E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0001186	0	0.43300E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0001187	0	0.43300E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	
L0001188	0	0.43300E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES	
L0001189	0	0.43300E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES	
L0001190	0	0.43300E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES	
L0001191	0	0.43300E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES	
L0001192	0	0.43300E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES	
L0001193	0	0.43300E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES	

L0001194	0	0.43300E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0001195	0	0.43300E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0001196	0	0.43300E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0001197	0	0.43300E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0001198	0	0.43300E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0001199	0	0.43300E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0001200	0	0.43300E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0001201	0	0.43300E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0001202	0	0.43300E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0001203	0	0.43300E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0001204	0	0.43300E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0001205	0	0.43300E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0001206	0	0.43300E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0001207	0	0.43300E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0001208	0	0.43300E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0001209	0	0.43300E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0001210	0	0.43300E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0001211	0	0.43300E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0001212	0	0.43300E-07	403388.4	3759742.7	72.4	3.50	4.70	1.63	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
L0001213	0	0.43300E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0001214	0	0.43300E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0001215	0	0.43300E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0001216	0	0.43300E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0001217	0	0.43300E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0001218	0	0.43300E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0001219	0	0.43300E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0001220	0	0.43300E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0001221	0	0.43300E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0001222	0	0.43300E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0001223	0	0.43300E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0001224	0	0.43300E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	
L0001225	0	0.43300E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES	
L0001226	0	0.43300E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES	
L0001227	0	0.43300E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES	
L0001228	0	0.43300E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES	
L0001229	0	0.43300E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES	
L0001230	0	0.43300E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES	

L0001231	0	0.43300E-07	403290.6	3759908.1	71.3	3.50	4.70	1.63	YES
L0001232	0	0.43300E-07	403285.5	3759916.8	71.3	3.50	4.70	1.63	YES
L0001233	0	0.43300E-07	403280.3	3759925.5	71.2	3.50	4.70	1.63	YES
L0001234	0	0.43300E-07	403275.2	3759934.2	71.2	3.50	4.70	1.63	YES
L0001235	0	0.43300E-07	403270.0	3759942.9	71.2	3.50	4.70	1.63	YES
L0001236	0	0.43300E-07	403264.9	3759951.6	71.2	3.50	4.70	1.63	YES
L0001237	0	0.43300E-07	403259.7	3759960.3	71.1	3.50	4.70	1.63	YES
L0001238	0	0.43300E-07	403254.6	3759969.0	71.0	3.50	4.70	1.63	YES
L0001239	0	0.43300E-07	403249.4	3759977.7	71.0	3.50	4.70	1.63	YES
L0001240	0	0.43300E-07	403244.3	3759986.5	71.0	3.50	4.70	1.63	YES
L0001241	0	0.43300E-07	403239.2	3759995.2	70.9	3.50	4.70	1.63	YES
L0001242	0	0.43300E-07	403234.0	3760003.9	70.9	3.50	4.70	1.63	YES
L0001243	0	0.43300E-07	403228.9	3760012.6	70.8	3.50	4.70	1.63	YES
L0001244	0	0.43300E-07	403223.7	3760021.3	70.8	3.50	4.70	1.63	YES
L0001245	0	0.43300E-07	403218.6	3760030.0	70.8	3.50	4.70	1.63	YES
L0001246	0	0.43300E-07	403213.4	3760038.7	70.7	3.50	4.70	1.63	YES
L0001247	0	0.43300E-07	403208.3	3760047.4	70.6	3.50	4.70	1.63	YES
L0001248	0	0.43300E-07	403203.1	3760056.1	70.5	3.50	4.70	1.63	YES
L0001249	0	0.43300E-07	403198.0	3760064.8	70.5	3.50	4.70	1.63	YES
L0001250	0	0.43300E-07	403192.8	3760073.5	70.5	3.50	4.70	1.63	YES
L0001251	0	0.43300E-07	403187.7	3760082.2	70.5	3.50	4.70	1.63	YES
L0001252	0	0.43300E-07	403182.5	3760090.9	70.5	3.50	4.70	1.63	YES

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*** AERMOD - VERSION 22112 ***      *** 19391 Whittier Blvd BP          ***      06/26/23
*** AERMET - VERSION 16216 ***      *** DPM Concentrations 14YR 2027-2040 ***      19:04:48
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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
L0001253	0	0.43300E-07	403177.4	3760099.6	70.4	3.50	4.70	1.63	YES		
L0001254	0	0.43300E-07	403172.2	3760108.4	70.4	3.50	4.70	1.63	YES		
L0001255	0	0.43300E-07	403167.1	3760117.1	70.5	3.50	4.70	1.63	YES		
L0001256	0	0.43300E-07	403161.9	3760125.8	70.5	3.50	4.70	1.63	YES		
L0001257	0	0.43300E-07	403156.8	3760134.5	70.4	3.50	4.70	1.63	YES		
L0001258	0	0.43300E-07	403151.6	3760143.2	70.3	3.50	4.70	1.63	YES		
L0001259	0	0.43300E-07	403146.5	3760151.9	70.3	3.50	4.70	1.63	YES		
L0001260	0	0.43300E-07	403141.3	3760160.6	70.3	3.50	4.70	1.63	YES		
L0001261	0	0.43300E-07	403136.2	3760169.3	70.3	3.50	4.70	1.63	YES		
L0001262	0	0.43300E-07	403131.1	3760178.0	70.2	3.50	4.70	1.63	YES		
L0001263	0	0.43300E-07	403125.9	3760186.7	70.1	3.50	4.70	1.63	YES		
L0001264	0	0.43300E-07	403120.8	3760195.4	70.0	3.50	4.70	1.63	YES		
L0001265	0	0.43300E-07	403115.6	3760204.1	70.0	3.50	4.70	1.63	YES		
L0001266	0	0.43300E-07	403110.5	3760212.8	70.1	3.50	4.70	1.63	YES		
L0001267	0	0.43300E-07	403105.3	3760221.5	70.1	3.50	4.70	1.63	YES		

L0001268	0	0.43300E-07	403100.2	3760230.3	70.2	3.50	4.70	1.63	YES
L0001269	0	0.43300E-07	403095.0	3760239.0	70.2	3.50	4.70	1.63	YES
L0001270	0	0.43300E-07	403089.9	3760247.7	70.3	3.50	4.70	1.63	YES
L0001271	0	0.43300E-07	403084.7	3760256.4	70.4	3.50	4.70	1.63	YES
L0001272	0	0.43300E-07	403079.6	3760265.1	70.4	3.50	4.70	1.63	YES
L0001273	0	0.43300E-07	403074.4	3760273.8	70.5	3.50	4.70	1.63	YES
L0001274	0	0.43300E-07	403069.3	3760282.5	70.7	3.50	4.70	1.63	YES
L0001275	0	0.43300E-07	403064.1	3760291.2	70.9	3.50	4.70	1.63	YES
L0001276	0	0.43300E-07	403059.0	3760299.9	71.0	3.50	4.70	1.63	YES
L0001277	0	0.43300E-07	403053.8	3760308.6	71.2	3.50	4.70	1.63	YES
L0001278	0	0.43300E-07	403048.7	3760317.3	71.3	3.50	4.70	1.63	YES
L0001279	0	0.43300E-07	403043.5	3760326.0	71.4	3.50	4.70	1.63	YES
L0001280	0	0.43300E-07	403038.4	3760334.7	71.2	3.50	4.70	1.63	YES
L0001281	0	0.43300E-07	403033.3	3760343.4	71.1	3.50	4.70	1.63	YES
L0001282	0	0.43300E-07	403028.1	3760352.1	71.0	3.50	4.70	1.63	YES
L0001283	0	0.43300E-07	403023.0	3760360.9	70.9	3.50	4.70	1.63	YES
L0001284	0	0.43300E-07	403017.8	3760369.6	71.0	3.50	4.70	1.63	YES
L0001285	0	0.43300E-07	403012.7	3760378.3	71.1	3.50	4.70	1.63	YES

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
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ALL	STCK1	,	STCK2	,	STCK3	,	STCK4	,	STCK5	,	L0001013	,	L0001014	,	L0001015	,
	L0001016	,	L0001017	,	L0001018	,	L0001019	,	L0001020	,	L0001021	,	L0001022	,	L0001023	,
	L0001024	,	L0001025	,	L0001026	,	L0001027	,	L0001028	,	L0001029	,	L0001030	,	L0001031	,
	L0001032	,	L0001033	,	L0001034	,	L0001035	,	L0001036	,	L0001037	,	L0001038	,	L0001039	,
	L0001040	,	L0001041	,	L0001042	,	L0001043	,	L0001044	,	L0001045	,	L0001046	,	L0001047	,
	L0001048	,	L0001049	,	L0001050	,	L0001051	,	L0001052	,	L0001053	,	L0001054	,	L0001055	,
	L0001056	,	L0001057	,	L0001058	,	L0001059	,	L0001060	,	L0001061	,	L0001062	,	L0001063	,
	L0001064	,	L0001065	,	L0001066	,	L0001067	,	L0001068	,	L0001069	,	L0001070	,	L0001071	,
	L0001072	,	L0001073	,	L0001074	,	L0001075	,	L0001076	,	L0001077	,	L0001078	,	L0001079	,
	L0001080	,	L0001081	,	L0001082	,	L0001083	,	L0001084	,	L0001085	,	L0001086	,	L0001087	,

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*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
*** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040 *** 19:04:48
*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* *** PAGE 11

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
-----	-----														
L0001168	,	L0001169	,	L0001170	,	L0001171	,	L0001172	,	L0001173	,	L0001174	,	L0001175	,
L0001176	,	L0001177	,	L0001178	,	L0001179	,	L0001180	,	L0001181	,	L0001182	,	L0001183	,
L0001184	,	L0001185	,	L0001186	,	L0001187	,	L0001188	,	L0001189	,	L0001190	,	L0001191	,
L0001192	,	L0001193	,	L0001194	,	L0001195	,	L0001196	,	L0001197	,	L0001198	,	L0001199	,
L0001200	,	L0001201	,	L0001202	,	L0001203	,	L0001204	,	L0001205	,	L0001206	,	L0001207	,
L0001208	,	L0001209	,	L0001210	,	L0001211	,	L0001212	,	L0001213	,	L0001214	,	L0001215	,
L0001216	,	L0001217	,	L0001218	,	L0001219	,	L0001220	,	L0001221	,	L0001222	,	L0001223	,
L0001224	,	L0001225	,	L0001226	,	L0001227	,	L0001228	,	L0001229	,	L0001230	,	L0001231	,
L0001232	,	L0001233	,	L0001234	,	L0001235	,	L0001236	,	L0001237	,	L0001238	,	L0001239	,
L0001240	,	L0001241	,	L0001242	,	L0001243	,	L0001244	,	L0001245	,	L0001246	,	L0001247	,

L0001248 , L0001249 , L0001250 , L0001251 , L0001252 , L0001253 , L0001254 , L0001255 ,
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
L0001015	9818605.	STCK1	, STCK2	, STCK3	, STCK4	, STCK5	, L0001013	, L0001014	,
	,								
	L0001016	, L0001017	, L0001018	, L0001019	, L0001020	, L0001021	, L0001022	, L0001023	,
	L0001024	, L0001025	, L0001026	, L0001027	, L0001028	, L0001029	, L0001030	, L0001031	,
	L0001032	, L0001033	, L0001034	, L0001035	, L0001036	, L0001037	, L0001038	, L0001039	,
	L0001040	, L0001041	, L0001042	, L0001043	, L0001044	, L0001045	, L0001046	, L0001047	,
	L0001048	, L0001049	, L0001050	, L0001051	, L0001052	, L0001053	, L0001054	, L0001055	,
	L0001056	, L0001057	, L0001058	, L0001059	, L0001060	, L0001061	, L0001062	, L0001063	,
	L0001064	, L0001065	, L0001066	, L0001067	, L0001068	, L0001069	, L0001070	, L0001071	,
	L0001072	, L0001073	, L0001074	, L0001075	, L0001076	, L0001077	, L0001078	, L0001079	,
	L0001080	, L0001081	, L0001082	, L0001083	, L0001084	, L0001085	, L0001086	, L0001087	,
	L0001088	, L0001089	, L0001090	, L0001091	, L0001092	, L0001093	, L0001094	, L0001095	,
	L0001096	, L0001097	, L0001098	, L0001099	, L0001100	, L0001101	, L0001102	, L0001103	,
	L0001104	, L0001105	, L0001106	, L0001107	, L0001108	, L0001109	, L0001110	, L0001111	,
	L0001112	, L0001113	, L0001114	, L0001115	, L0001116	, L0001117	, L0001118	, L0001119	,

L0001120 , L0001121 , L0001122 , L0001123 , L0001124 , L0001125 , L0001126 , L0001127 ,
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 L0001160 , L0001161 , L0001162 , L0001163 , L0001164 , L0001165 , L0001166 , L0001167 ,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs													
-----	-----	-----	-----	-----	-----	-----	-----	-----							
L0001168	,	L0001169	,	L0001170	,	L0001171	,	L0001172	,	L0001173	,	L0001174	,	L0001175	,
L0001176	,	L0001177	,	L0001178	,	L0001179	,	L0001180	,	L0001181	,	L0001182	,	L0001183	,
L0001184	,	L0001185	,	L0001186	,	L0001187	,	L0001188	,	L0001189	,	L0001190	,	L0001191	,
L0001192	,	L0001193	,	L0001194	,	L0001195	,	L0001196	,	L0001197	,	L0001198	,	L0001199	,
L0001200	,	L0001201	,	L0001202	,	L0001203	,	L0001204	,	L0001205	,	L0001206	,	L0001207	,
L0001208	,	L0001209	,	L0001210	,	L0001211	,	L0001212	,	L0001213	,	L0001214	,	L0001215	,
L0001216	,	L0001217	,	L0001218	,	L0001219	,	L0001220	,	L0001221	,	L0001222	,	L0001223	,
L0001224	,	L0001225	,	L0001226	,	L0001227	,	L0001228	,	L0001229	,	L0001230	,	L0001231	,
L0001232	,	L0001233	,	L0001234	,	L0001235	,	L0001236	,	L0001237	,	L0001238	,	L0001239	,
L0001240	,	L0001241	,	L0001242	,	L0001243	,	L0001244	,	L0001245	,	L0001246	,	L0001247	,
L0001248	,	L0001249	,	L0001250	,	L0001251	,	L0001252	,	L0001253	,	L0001254	,	L0001255	,
L0001256	,	L0001257	,	L0001258	,	L0001259	,	L0001260	,	L0001261	,	L0001262	,	L0001263	,
L0001264	,	L0001265	,	L0001266	,	L0001267	,	L0001268	,	L0001269	,	L0001270	,	L0001271	,

L0001272 , L0001273 , L0001274 , L0001275 , L0001276 , L0001277 , L0001278 , L0001279 ,
 L0001280 , L0001281 , L0001282 , L0001283 , L0001284 , L0001285 ,

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** DPM Concentrations 14YR 2027-2040

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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	10.7	226.0	233.4	-18.6	-35.5	2	10.7	215.2	250.1	-25.0	-15.0
3	10.7	198.7	259.2	-30.8	5.5	4	10.7	178.8	260.5	-35.5	24.6
5	10.7	153.4	253.9	-39.2	42.8	6	10.7	124.1	243.3	-42.0	59.5
7	10.7	147.9	246.9	-50.2	77.4	8	10.7	182.2	243.0	-56.8	87.0
9	10.7	211.0	231.7	-61.8	94.0	10	10.7	233.4	226.0	-77.5	98.1
11	10.7	250.1	215.2	-92.6	100.0	12	10.7	259.2	198.7	-104.8	98.9
13	10.7	260.5	178.8	-113.9	94.7	14	10.7	253.9	153.4	-119.5	87.7
15	10.7	243.3	124.1	-121.5	79.7	16	10.7	246.9	147.9	-151.3	73.3
17	10.7	243.0	182.2	-178.1	64.6	18	10.7	231.7	211.0	-199.5	54.1
19	10.7	226.0	233.4	-214.8	35.5	20	10.7	215.2	250.1	-225.1	15.0
21	10.7	198.7	259.2	-228.5	-5.5	22	10.7	178.8	260.5	-225.0	-24.6
23	10.7	153.4	253.9	-214.6	-42.8	24	10.7	124.1	243.3	-201.3	-59.5
25	10.7	147.9	246.9	-196.7	-77.4	26	10.7	182.2	243.0	-186.1	-87.0
27	10.7	211.0	231.7	-169.9	-94.0	28	10.7	233.4	226.0	-148.5	-98.1
29	10.7	250.1	215.2	-122.6	-100.0	30	10.7	259.2	198.7	-93.8	-98.9
31	10.7	260.5	178.8	-64.8	-94.7	32	10.7	253.9	153.4	-33.9	-87.7
33	10.7	243.3	124.1	-2.6	-79.7	34	10.7	246.9	147.9	3.4	-73.3
35	10.7	243.0	182.2	-4.1	-64.6	36	10.7	231.7	211.0	-11.5	-54.1

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7	226.0	233.4	-61.8	20.2	2	10.7	215.2	250.1	-77.3	32.4
3	10.7	198.7	259.2	-90.5	43.1	4	10.7	178.8	260.5	-100.9	51.2
5	10.7	153.4	253.9	-108.2	57.7	6	10.7	124.1	243.3	-112.5	62.1
7	10.7	147.9	246.9	-120.1	67.7	8	10.7	182.2	243.0	-124.0	65.4
9	10.7	211.0	231.7	-124.2	61.0	10	10.7	233.4	226.0	-133.2	54.8
11	10.7	250.1	215.2	-140.0	47.7	12	10.7	259.2	198.7	-142.4	39.1
13	10.7	260.5	178.8	-140.6	29.4	14	10.7	253.9	153.4	-134.4	18.7
15	10.7	243.3	124.1	-124.2	9.1	16	10.7	246.9	147.9	-141.7	3.3
17	10.7	243.0	182.2	-156.5	-2.5	18	10.7	231.7	211.0	-166.5	-8.3
19	10.7	226.0	233.4	-171.5	-20.2	20	10.7	215.2	250.1	-172.8	-32.4
21	10.7	198.7	259.2	-168.7	-43.1	22	10.7	178.8	260.5	-159.6	-51.2
23	10.7	153.4	253.9	-145.6	-57.7	24	10.7	124.1	243.3	-130.8	-62.1
25	10.7	147.9	246.9	-126.8	-67.7	26	10.7	182.2	243.0	-118.9	-65.4
27	10.7	211.0	231.7	-107.5	-61.0	28	10.7	233.4	226.0	-92.8	-54.8
29	10.7	250.1	215.2	-75.2	-47.7	30	10.7	259.2	198.7	-56.3	-39.1

31	10.7,	260.5,	178.8,	-38.2,	-29.4,	32	10.7,	253.9,	153.4,	-19.0,	-18.7,
33	10.7,	243.3,	124.1,	0.1,	-9.1,	34	10.7,	246.9,	147.9,	-6.2,	-3.3,
35	10.7,	243.0,	182.2,	-25.7,	2.5,	36	10.7,	231.7,	211.0,	-44.5,	8.3,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-31.6,	-16.6,	2	10.7,	215.2,	250.1,	-41.2,	1.4,
3	10.7,	198.7,	259.2,	-49.5,	18.8,	4	10.7,	178.8,	260.5,	-56.3,	34.4,
5	10.7,	153.4,	253.9,	-61.4,	49.0,	6	10.7,	124.1,	243.3,	-64.9,	61.6,
7	10.7,	147.9,	246.9,	-73.1,	75.5,	8	10.7,	182.2,	243.0,	-79.1,	81.2,
9	10.7,	211.0,	231.7,	-82.7,	84.4,	10	10.7,	233.4,	226.0,	-96.4,	85.1,
11	10.7,	250.1,	215.2,	-109.0,	83.9,	12	10.7,	259.2,	198.7,	-118.2,	80.1,
13	10.7,	260.5,	178.8,	-123.8,	73.9,	14	10.7,	253.9,	153.4,	-125.7,	65.5,
15	10.7,	243.3,	124.1,	-123.7,	56.8,	16	10.7,	246.9,	147.9,	-149.5,	50.3,
17	10.7,	243.0,	182.2,	-172.3,	42.4,	18	10.7,	231.7,	211.0,	-189.9,	33.1,
19	10.7,	226.0,	233.4,	-201.8,	16.6,	20	10.7,	215.2,	250.1,	-208.9,	-1.4,
21	10.7,	198.7,	259.2,	-209.8,	-18.8,	22	10.7,	178.8,	260.5,	-204.2,	-34.4,
23	10.7,	153.4,	253.9,	-192.4,	-49.0,	24	10.7,	124.1,	243.3,	-178.4,	-61.6,
25	10.7,	147.9,	246.9,	-173.8,	-75.5,	26	10.7,	182.2,	243.0,	-163.9,	-81.2,
27	10.7,	211.0,	231.7,	-149.0,	-84.4,	28	10.7,	233.4,	226.0,	-129.6,	-85.1,
29	10.7,	250.1,	215.2,	-106.2,	-83.9,	30	10.7,	259.2,	198.7,	-80.5,	-80.1,
31	10.7,	260.5,	178.8,	-55.0,	-73.9,	32	10.7,	253.9,	153.4,	-27.8,	-65.5,
33	10.7,	243.3,	124.1,	-0.4,	-56.8,	34	10.7,	246.9,	147.9,	1.6,	-50.3,
35	10.7,	243.0,	182.2,	-9.9,	-42.4,	36	10.7,	231.7,	211.0,	-21.1,	-33.1,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-84.8,	46.1,	2	10.7,	215.2,	250.1,	-104.4,	53.8,
3	10.7,	198.7,	259.2,	-120.9,	59.5,	4	10.7,	178.8,	260.5,	-133.7,	62.1,
5	10.7,	153.4,	253.9,	-142.4,	62.8,	6	10.7,	124.1,	243.3,	-147.0,	61.2,
7	10.7,	147.9,	246.9,	-153.9,	60.8,	8	10.7,	182.2,	243.0,	-156.1,	52.7,
9	10.7,	211.0,	231.7,	-153.6,	42.9,	10	10.7,	233.4,	226.0,	-159.1,	31.9,
11	10.7,	250.1,	215.2,	-161.4,	20.6,	12	10.7,	259.2,	198.7,	-158.9,	8.7,
13	10.7,	260.5,	178.8,	-151.5,	-3.4,	14	10.7,	253.9,	153.4,	-139.5,	-15.5,
15	10.7,	243.3,	124.1,	-123.2,	-25.4,	16	10.7,	246.9,	147.9,	-134.7,	-30.5,
17	10.7,	243.0,	182.2,	-143.8,	-34.6,	18	10.7,	231.7,	211.0,	-148.4,	-37.8,
19	10.7,	226.0,	233.4,	-148.6,	-46.1,	20	10.7,	215.2,	250.1,	-145.7,	-53.8,
21	10.7,	198.7,	259.2,	-138.4,	-59.5,	22	10.7,	178.8,	260.5,	-126.8,	-62.1,
23	10.7,	153.4,	253.9,	-111.5,	-62.8,	24	10.7,	124.1,	243.3,	-96.2,	-61.2,
25	10.7,	147.9,	246.9,	-93.0,	-60.8,	26	10.7,	182.2,	243.0,	-86.8,	-52.7,
27	10.7,	211.0,	231.7,	-78.1,	-42.9,	28	10.7,	233.4,	226.0,	-66.9,	-31.9,
29	10.7,	250.1,	215.2,	-53.8,	-20.6,	30	10.7,	259.2,	198.7,	-39.8,	-8.7,
31	10.7,	260.5,	178.8,	-27.3,	3.4,	32	10.7,	253.9,	153.4,	-14.0,	15.5,
33	10.7,	243.3,	124.1,	-0.9,	25.4,	34	10.7,	246.9,	147.9,	-13.2,	30.5,
35	10.7,	243.0,	182.2,	-38.4,	34.6,	36	10.7,	231.7,	211.0,	-62.6,	37.8,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040

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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	10.7	226.0	233.4	-97.0	85.0	2	10.7	215.2	250.1	-123.2	90.0
3	10.7	198.7	259.2	-145.7	91.8	4	10.7	178.8	260.5	-163.7	89.6
5	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0
7	10.7	147.9	246.9	-193.7	69.6	8	10.7	182.2	243.0	-196.9	54.4
9	10.7	211.0	231.7	-194.0	37.6	10	10.7	233.4	226.0	-198.0	19.7
11	10.7	250.1	215.2	-197.6	1.8	12	10.7	259.2	198.7	-191.2	-16.1
13	10.7	260.5	178.8	-179.0	-33.5	14	10.7	253.9	153.4	-161.4	-49.9
15	10.7	243.3	124.1	-138.8	-63.1	16	10.7	246.9	147.9	-143.6	-70.3
17	10.7	243.0	182.2	-145.6	-75.4	18	10.7	231.7	211.0	-143.1	-78.2
19	10.7	226.0	233.4	-136.3	-85.0	20	10.7	215.2	250.1	-126.9	-90.0
21	10.7	198.7	259.2	-113.5	-91.8	22	10.7	178.8	260.5	-96.8	-89.6
23	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0
25	10.7	147.9	246.9	-53.1	-69.6	26	10.7	182.2	243.0	-46.1	-54.4
27	10.7	211.0	231.7	-37.6	-37.6	28	10.7	233.4	226.0	-28.1	-19.7
29	10.7	250.1	215.2	-17.6	-1.8	30	10.7	259.2	198.7	-7.5	16.1
31	10.7	260.5	178.8	0.2	33.5	32	10.7	253.9	153.4	8.0	49.9
33	10.7	243.3	124.1	14.7	63.1	34	10.7	246.9	147.9	-4.3	70.3
35	10.7	243.0	182.2	-36.7	75.4	36	10.7	231.7	211.0	-67.9	78.2

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

402680.3, 402746.2, 402812.2, 402878.1, 402944.0, 403010.0, 403075.9, 403141.8, 403207.8, 403273.7,
 403339.6, 403405.5, 403471.5, 403537.4, 403603.3, 403669.3, 403735.2, 403801.1, 403867.1, 403933.0,
 403998.9,

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

3759000.9, 3759070.5, 3759140.2, 3759209.8, 3759279.4, 3759349.0, 3759418.7, 3759488.3, 3759557.9, 3759627.6,
 3759697.2, 3759766.8, 3759836.5, 3759906.1, 3759975.7, 3760045.4, 3760115.0, 3760184.6, 3760254.2, 3760323.9,
 3760393.5,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70

3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 14YR 2027-2040 ***   19:04:48
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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)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	67.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	59.00	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	62.60
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	57.50	56.80	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

```

*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 14YR 2027-2040 ***   19:04:48
                                                                                                     PAGE 21

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*** MODELOPTs:   RegDFault CONC  ELEV  URBAN  ADJ_U*
```

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

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* HILL HEIGHT SCALES IN METERS *
```

Y-COORD (METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
---------------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

3760393.50	78.20	79.70	82.10	324.50	361.90	361.90	361.90	361.90	361.90
3760323.87	76.50	78.70	80.70	82.30	324.50	361.90	361.90	361.90	361.90
3760254.24	75.30	77.80	78.80	80.80	82.10	324.70	324.70	361.90	361.90
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	324.50	324.70	336.70
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	323.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	70.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

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*** AERMOD - VERSION 22112 ***      *** 19391 Whittier Blvd BP          ***      06/26/23
*** AERMET - VERSION 16216 ***      *** DPM Concentrations 14YR 2027-2040    ***      19:04:48
                                     ***                               ***      PAGE 22

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
                *** NETWORK ID: UCART1   ; NETWORK TYPE: GRIDCART ***

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* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	361.90	361.90	361.90
3760323.87	361.90	361.90	361.90
3760254.24	361.90	361.90	361.90
3760184.61	361.10	361.90	361.90
3760114.98	324.50	324.70	336.70
3760045.35	89.50	91.10	323.90
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60
3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90
3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40

3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

```

*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 14YR 2027-2040 ***   19:04:48
                                                                                                     PAGE 23

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

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

```

(403076.6, 3759566.9,	63.0,	63.0,	0.0);	(403074.6, 3759594.7,	63.1,	63.1,	0.0);
(403074.3, 3759652.4,	63.8,	63.8,	0.0);	(403036.2, 3759545.2,	61.6,	61.6,	0.0);
(403491.1, 3759689.7,	73.7,	73.7,	0.0);	(403558.2, 3759512.8,	71.0,	71.0,	0.0);
(403587.6, 3759479.4,	70.9,	70.9,	0.0);	(403471.1, 3759691.3,	73.3,	73.3,	0.0);
(403097.0, 3760166.2,	69.1,	69.1,	0.0);				

```

*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 14YR 2027-2040 ***   19:04:48
                                                                                                     PAGE 24

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
  LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

```

SOURCE ID	- - RECEPTOR LOCATION - -	DISTANCE (METERS)
	XR (METERS) YR (METERS)	
L0001018	403339.6 3759627.6	-7.09
L0001019	403339.6 3759627.6	-0.90
L0001035	403207.8 3759557.9	-2.06
L0001036	403207.8 3759557.9	-1.64
L0001043	403405.5 3759627.6	-4.59
L0001044	403405.5 3759627.6	-3.45
L0001074	403537.4 3759418.7	0.82
L0001102	403669.3 3759209.8	-3.56
L0001103	403669.3 3759209.8	-5.02
L0001154	403339.6 3759070.5	-4.58
L0001155	403339.6 3759070.5	-3.94
L0001182	403537.4 3759488.3	-1.57
L0001183	403537.4 3759488.3	-7.74
L0001198	403471.5 3759627.6	-0.10
L0001207	403405.5 3759697.2	-0.35
L0001222	403339.6 3759836.5	-2.86
L0001223	403339.6 3759836.5	-2.05

10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10	01	01	1	21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10	01	01	1	22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5
10	01	01	1	23	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	178.	9.1	284.2	5.5
10	01	01	1	24	-11.8	0.154	-9.000	-9.000	-999.	145.	27.6	0.34	0.73	1.00	1.30	28.	9.1	283.1	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	283.8	99.0	-99.00	-99.00
10	01	01	01	9.1	1	321.	3.10	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 14YR 2027-2040 *** 19:04:48
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 27

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
 L0001013 , L0001014 , L0001015 , L0001016 , L0001017 , L0001018 , L0001019 , L0001020 ,
 L0001021 , L0001022 , L0001023 , L0001024 , L0001025 , L0001026 , L0001027 , L0001028 ,
 L0001029 , L0001030 , L0001031 , L0001032 , L0001033 , L0001034 , L0001035 , . . . ,

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

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

Y-COORD (METERS)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	0.00006	0.00007	0.00008	0.00010	0.00013	0.00028	0.00019	0.00016	0.00015
3760323.87	0.00007	0.00008	0.00010	0.00012	0.00016	0.00031	0.00038	0.00022	0.00020


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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP   ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 14YR 2027-2040 ***   19:04:48
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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
            INCLUDING SOURCE(S):   STCK1      , STCK2      , STCK3      , STCK4      , STCK5      ,
L0001013   , L0001014   , L0001015   , L0001016   , L0001017   , L0001018   , L0001019   , L0001020   ,
L0001021   , L0001022   , L0001023   , L0001024   , L0001025   , L0001026   , L0001027   , L0001028   ,
L0001029   , L0001030   , L0001031   , L0001032   , L0001033   , L0001034   , L0001035   , . . .

```

*** 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
-----
403076.63    3759566.89    0.00099      403074.61    3759594.66    0.00098
403074.33    3759652.43    0.00093      403036.23    3759545.23    0.00072
403491.13    3759689.69    0.00082      403558.25    3759512.77    0.00068
403587.63    3759479.41    0.00049      403471.13    3759691.31    0.00098
403096.96    3760166.19    0.00043

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP   ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 14YR 2027-2040 ***   19:04:48
                                                                                                     PAGE 31

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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***

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** 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 0.00277 AT ( 403339.62, 3759627.57, 68.10, 68.10, 0.00) GC UCART1
ALL 2ND HIGHEST VALUE IS 0.00255 AT ( 403207.76, 3759557.94, 66.70, 66.70, 0.00) GC UCART1
ALL 3RD HIGHEST VALUE IS 0.00234 AT ( 403273.69, 3759627.57, 67.70, 67.70, 0.00) GC UCART1
ALL 4TH HIGHEST VALUE IS 0.00222 AT ( 403273.69, 3759557.94, 66.40, 66.40, 0.00) GC UCART1
ALL 5TH HIGHEST VALUE IS 0.00201 AT ( 403405.55, 3759627.57, 70.40, 70.40, 0.00) GC UCART1
ALL 6TH HIGHEST VALUE IS 0.00200 AT ( 403405.55, 3759697.20, 72.10, 72.10, 0.00) GC UCART1
ALL 7TH HIGHEST VALUE IS 0.00200 AT ( 403273.69, 3759697.20, 68.00, 68.00, 0.00) GC UCART1
ALL 8TH HIGHEST VALUE IS 0.00186 AT ( 403339.62, 3759766.83, 71.30, 71.30, 0.00) GC UCART1
ALL 9TH HIGHEST VALUE IS 0.00185 AT ( 403207.76, 3759627.57, 67.30, 67.30, 0.00) GC UCART1
ALL 10TH HIGHEST VALUE IS 0.00169 AT ( 403207.76, 3759488.31, 64.10, 64.10, 0.00) GC UCART1

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*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR

```

DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP
*** AERMET - VERSION 16216 *** DPM Concentrations 14YR 2027-2040

*** 06/26/23
*** 19:04:48
*** PAGE 32

*** 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 9 Warning Message(s)
A Total of 1277 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 152 Calm Hours Identified

A Total of 1125 Missing Hours Identified (2.57 Percent)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	15010101
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

*** AERMOD Finishes Successfully ***

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 6/26/2023
** File: C:\Lakes\AERMOD View\19391 Whittier Blvd BP 2nd 14YR\19391 Whittier Blvd BP 2nd 14YR.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE 19391 Whittier Blvd BP
TITLETWO DPM Concentrations 2nd 14YR 2041-2054
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 9818605 Los_Angeles_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19391 Whittier Blvd BP 2nd 14YR.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION STCK1 POINT 403193.640 3759565.730 66.820
** DESCRSRC Truck idling Location
LOCATION STCK2 POINT 403256.045 3759598.705 67.440
** DESCRSRC Truck idling Location
LOCATION STCK3 POINT 403214.561 3759575.303 66.930
** DESCRSRC Truck idling Location
LOCATION STCK4 POINT 403285.474 3759616.787 67.600
** DESCRSRC Truck idling Location
LOCATION STCK5 POINT 403325.895 3759622.106 67.810
** DESCRSRC Truck idling Location
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel

```

```

** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.66E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403377.081, 3759656.927, 68.97, 3.50, 4.00
** 403368.321, 3759649.002, 68.27, 3.50, 4.00
** 403361.646, 3759641.493, 68.07, 3.50, 4.00
** 403353.721, 3759633.985, 68.07, 3.50, 4.00
** 403323.270, 3759617.299, 67.71, 3.50, 4.00
** 403189.785, 3759541.797, 65.87, 3.50, 4.00
** -----
LOCATION L0001286    VOLUME  403373.895 3759654.046 68.80
LOCATION L0001287    VOLUME  403367.608 3759648.200 68.24
LOCATION L0001288    VOLUME  403361.900 3759641.779 68.19
LOCATION L0001289    VOLUME  403355.687 3759635.848 68.25
LOCATION L0001290    VOLUME  403348.563 3759631.158 68.15
LOCATION L0001291    VOLUME  403341.029 3759627.030 68.08
LOCATION L0001292    VOLUME  403333.495 3759622.902 67.96
LOCATION L0001293    VOLUME  403325.961 3759618.774 67.80
LOCATION L0001294    VOLUME  403318.463 3759614.581 67.70
LOCATION L0001295    VOLUME  403310.986 3759610.351 67.69
LOCATION L0001296    VOLUME  403303.508 3759606.122 67.65
LOCATION L0001297    VOLUME  403296.031 3759601.892 67.57
LOCATION L0001298    VOLUME  403288.553 3759597.663 67.52
LOCATION L0001299    VOLUME  403281.076 3759593.433 67.47
LOCATION L0001300    VOLUME  403273.598 3759589.204 67.42
LOCATION L0001301    VOLUME  403266.120 3759584.974 67.36
LOCATION L0001302    VOLUME  403258.643 3759580.745 67.21
LOCATION L0001303    VOLUME  403251.165 3759576.515 67.10
LOCATION L0001304    VOLUME  403243.688 3759572.286 67.02
LOCATION L0001305    VOLUME  403236.210 3759568.056 66.91
LOCATION L0001306    VOLUME  403228.733 3759563.827 66.83
LOCATION L0001307    VOLUME  403221.255 3759559.597 66.77
LOCATION L0001308    VOLUME  403213.778 3759555.368 66.73
LOCATION L0001309    VOLUME  403206.300 3759551.138 66.47
LOCATION L0001310    VOLUME  403198.823 3759546.909 66.17
LOCATION L0001311    VOLUME  403191.345 3759542.679 65.89
** End of LINE VOLUME Source ID = SLINE1
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.98E-06
** Elevated

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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** -----
LOCATION L0001312    VOLUME  403385.280 3759659.813 70.03
LOCATION L0001313    VOLUME  403389.548 3759652.357 69.98
LOCATION L0001314    VOLUME  403393.816 3759644.901 70.08
LOCATION L0001315    VOLUME  403398.083 3759637.446 70.40
LOCATION L0001316    VOLUME  403402.351 3759629.990 70.43
LOCATION L0001317    VOLUME  403406.619 3759622.534 70.34
LOCATION L0001318    VOLUME  403410.886 3759615.078 70.21
LOCATION L0001319    VOLUME  403415.154 3759607.622 70.06
LOCATION L0001320    VOLUME  403419.422 3759600.167 69.93
LOCATION L0001321    VOLUME  403423.689 3759592.711 69.84
LOCATION L0001322    VOLUME  403427.957 3759585.255 69.78
LOCATION L0001323    VOLUME  403432.225 3759577.799 69.72
LOCATION L0001324    VOLUME  403436.492 3759570.343 69.64
LOCATION L0001325    VOLUME  403440.760 3759562.888 69.55
LOCATION L0001326    VOLUME  403445.028 3759555.432 69.44
LOCATION L0001327    VOLUME  403449.295 3759547.976 69.28
LOCATION L0001328    VOLUME  403453.563 3759540.520 69.16
LOCATION L0001329    VOLUME  403457.831 3759533.065 69.03
LOCATION L0001330    VOLUME  403462.098 3759525.609 68.88
LOCATION L0001331    VOLUME  403466.366 3759518.153 68.78
LOCATION L0001332    VOLUME  403470.634 3759510.697 68.77
LOCATION L0001333    VOLUME  403474.901 3759503.241 68.75
LOCATION L0001334    VOLUME  403479.169 3759495.786 68.72
LOCATION L0001335    VOLUME  403483.437 3759488.330 68.63
LOCATION L0001336    VOLUME  403487.705 3759480.874 68.52
LOCATION L0001337    VOLUME  403491.972 3759473.418 68.41
LOCATION L0001338    VOLUME  403496.240 3759465.962 68.30
LOCATION L0001339    VOLUME  403500.508 3759458.507 68.20
LOCATION L0001340    VOLUME  403504.775 3759451.051 68.09
LOCATION L0001341    VOLUME  403510.793 3759446.613 68.07
LOCATION L0001342    VOLUME  403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.41E-07
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63

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** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00

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LOCATION L0001343    VOLUME  403528.969 3759452.019 68.52
LOCATION L0001344    VOLUME  403533.259 3759444.576 68.43
LOCATION L0001345    VOLUME  403537.549 3759437.134 68.33
LOCATION L0001346    VOLUME  403541.839 3759429.691 68.23
LOCATION L0001347    VOLUME  403546.129 3759422.248 68.12
LOCATION L0001348    VOLUME  403550.419 3759414.805 68.02
LOCATION L0001349    VOLUME  403554.709 3759407.362 67.93
LOCATION L0001350    VOLUME  403558.999 3759399.919 67.88
LOCATION L0001351    VOLUME  403563.318 3759392.492 67.86
LOCATION L0001352    VOLUME  403567.673 3759385.088 67.79
LOCATION L0001353    VOLUME  403572.029 3759377.683 67.69
LOCATION L0001354    VOLUME  403576.385 3759370.278 67.54
LOCATION L0001355    VOLUME  403580.740 3759362.873 67.43
LOCATION L0001356    VOLUME  403585.096 3759355.469 67.29
LOCATION L0001357    VOLUME  403589.452 3759348.064 67.11
LOCATION L0001358    VOLUME  403593.834 3759340.675 66.91
LOCATION L0001359    VOLUME  403598.226 3759333.291 66.71
LOCATION L0001360    VOLUME  403602.617 3759325.908 66.55
LOCATION L0001361    VOLUME  403607.009 3759318.525 66.41
LOCATION L0001362    VOLUME  403611.401 3759311.141 66.32
LOCATION L0001363    VOLUME  403615.793 3759303.758 66.26
LOCATION L0001364    VOLUME  403620.161 3759296.361 66.20
LOCATION L0001365    VOLUME  403624.410 3759288.895 66.08
LOCATION L0001366    VOLUME  403628.660 3759281.429 65.92
LOCATION L0001367    VOLUME  403632.910 3759273.963 65.87
LOCATION L0001368    VOLUME  403637.160 3759266.497 65.80
LOCATION L0001369    VOLUME  403641.410 3759259.031 65.70
LOCATION L0001370    VOLUME  403645.660 3759251.565 65.55
LOCATION L0001371    VOLUME  403649.909 3759244.099 65.38
LOCATION L0001372    VOLUME  403654.159 3759236.633 65.20
LOCATION L0001373    VOLUME  403658.409 3759229.167 65.08
LOCATION L0001374    VOLUME  403662.659 3759221.701 65.03
LOCATION L0001375    VOLUME  403666.955 3759214.262 65.06
LOCATION L0001376    VOLUME  403671.375 3759206.896 65.18
LOCATION L0001377    VOLUME  403675.795 3759199.529 65.30

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LOCATION	L0001378	VOLUME	403680.215	3759192.163	65.28
LOCATION	L0001379	VOLUME	403684.635	3759184.796	65.20
LOCATION	L0001380	VOLUME	403689.079	3759177.444	65.11
LOCATION	L0001381	VOLUME	403693.552	3759170.109	65.01
LOCATION	L0001382	VOLUME	403697.816	3759162.676	64.98
LOCATION	L0001383	VOLUME	403700.416	3759154.521	64.94
LOCATION	L0001384	VOLUME	403700.306	3759146.054	64.83
LOCATION	L0001385	VOLUME	403696.345	3759138.468	64.60
LOCATION	L0001386	VOLUME	403689.548	3759133.215	64.32
LOCATION	L0001387	VOLUME	403681.516	3759131.396	64.05
LOCATION	L0001388	VOLUME	403672.929	3759131.119	63.79
LOCATION	L0001389	VOLUME	403664.343	3759130.842	63.54
LOCATION	L0001390	VOLUME	403655.780	3759130.201	63.27
LOCATION	L0001391	VOLUME	403647.228	3759129.386	62.98
LOCATION	L0001392	VOLUME	403638.676	3759128.572	62.66
LOCATION	L0001393	VOLUME	403630.194	3759127.265	62.32
LOCATION	L0001394	VOLUME	403621.759	3759125.636	61.99
LOCATION	L0001395	VOLUME	403613.325	3759124.006	61.67
LOCATION	L0001396	VOLUME	403604.890	3759122.377	61.37
LOCATION	L0001397	VOLUME	403596.455	3759120.748	61.06
LOCATION	L0001398	VOLUME	403588.020	3759119.119	60.80
LOCATION	L0001399	VOLUME	403579.585	3759117.489	60.59
LOCATION	L0001400	VOLUME	403571.150	3759115.860	60.42
LOCATION	L0001401	VOLUME	403562.715	3759114.231	60.30
LOCATION	L0001402	VOLUME	403554.280	3759112.602	60.14
LOCATION	L0001403	VOLUME	403545.845	3759110.973	59.97
LOCATION	L0001404	VOLUME	403537.411	3759109.343	59.86
LOCATION	L0001405	VOLUME	403528.976	3759107.714	59.74
LOCATION	L0001406	VOLUME	403520.541	3759106.085	59.62
LOCATION	L0001407	VOLUME	403512.106	3759104.456	59.52
LOCATION	L0001408	VOLUME	403503.671	3759102.826	59.41
LOCATION	L0001409	VOLUME	403495.236	3759101.197	59.29
LOCATION	L0001410	VOLUME	403486.801	3759099.568	59.11
LOCATION	L0001411	VOLUME	403478.366	3759097.939	58.94
LOCATION	L0001412	VOLUME	403469.931	3759096.310	58.75
LOCATION	L0001413	VOLUME	403461.496	3759094.680	58.50
LOCATION	L0001414	VOLUME	403453.062	3759093.051	58.26
LOCATION	L0001415	VOLUME	403444.627	3759091.422	58.02
LOCATION	L0001416	VOLUME	403436.192	3759089.793	57.76
LOCATION	L0001417	VOLUME	403427.757	3759088.163	57.55
LOCATION	L0001418	VOLUME	403419.322	3759086.534	57.37
LOCATION	L0001419	VOLUME	403410.887	3759084.905	57.32
LOCATION	L0001420	VOLUME	403402.452	3759083.276	57.24
LOCATION	L0001421	VOLUME	403394.017	3759081.647	57.13
LOCATION	L0001422	VOLUME	403385.582	3759080.017	57.09
LOCATION	L0001423	VOLUME	403377.147	3759078.388	57.03
LOCATION	L0001424	VOLUME	403368.713	3759076.759	56.95
LOCATION	L0001425	VOLUME	403360.278	3759075.130	56.89
LOCATION	L0001426	VOLUME	403351.843	3759073.500	56.84
LOCATION	L0001427	VOLUME	403343.408	3759071.871	56.78
LOCATION	L0001428	VOLUME	403334.973	3759070.242	56.72

LOCATION	L0001429	VOLUME	403326.538	3759068.613	56.65
LOCATION	L0001430	VOLUME	403318.103	3759066.984	56.57
LOCATION	L0001431	VOLUME	403309.668	3759065.354	56.37
LOCATION	L0001432	VOLUME	403301.233	3759063.725	56.17
LOCATION	L0001433	VOLUME	403292.799	3759062.096	55.97
LOCATION	L0001434	VOLUME	403284.364	3759060.467	55.70
LOCATION	L0001435	VOLUME	403275.929	3759058.837	55.41
LOCATION	L0001436	VOLUME	403267.494	3759057.208	55.13
LOCATION	L0001437	VOLUME	403259.059	3759055.579	54.93
LOCATION	L0001438	VOLUME	403250.624	3759053.950	54.75
LOCATION	L0001439	VOLUME	403242.189	3759052.321	54.55
LOCATION	L0001440	VOLUME	403233.754	3759050.691	54.50
LOCATION	L0001441	VOLUME	403225.319	3759049.062	54.47
LOCATION	L0001442	VOLUME	403216.884	3759047.433	54.40
LOCATION	L0001443	VOLUME	403208.450	3759045.804	54.23
LOCATION	L0001444	VOLUME	403200.015	3759044.174	54.01
LOCATION	L0001445	VOLUME	403191.580	3759042.545	53.80
LOCATION	L0001446	VOLUME	403183.145	3759040.916	53.54
LOCATION	L0001447	VOLUME	403174.710	3759039.287	53.26
LOCATION	L0001448	VOLUME	403166.275	3759037.658	53.01
LOCATION	L0001449	VOLUME	403157.840	3759036.028	52.81
LOCATION	L0001450	VOLUME	403149.405	3759034.399	52.62
LOCATION	L0001451	VOLUME	403140.970	3759032.770	52.43
LOCATION	L0001452	VOLUME	403132.535	3759031.141	52.25

** End of LINE VOLUME Source ID = SLINE3

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE4

** DESCRSRC Northbound along Whitter Blvd

** PREFIX

** Length of Side = 10.11

** Configuration = Adjacent

** Emission Rate = 4.04E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 7

** 403541.907, 3759460.234, 69.09, 3.50, 4.70

** 403548.291, 3759465.199, 69.37, 3.50, 4.70

** 403540.134, 3759487.187, 69.75, 3.50, 4.70

** 403492.611, 3759570.175, 70.72, 3.50, 4.70

** 403452.890, 3759640.041, 71.88, 3.50, 4.70

** 403398.984, 3759724.801, 72.44, 3.50, 4.70

** 403007.874, 3760386.371, 71.03, 3.50, 4.70

** -----

LOCATION	L0001453	VOLUME	403545.899	3759463.339	69.32
LOCATION	L0001454	VOLUME	403545.826	3759471.842	69.48
LOCATION	L0001455	VOLUME	403542.308	3759481.325	69.66
LOCATION	L0001456	VOLUME	403538.215	3759490.539	69.93
LOCATION	L0001457	VOLUME	403533.188	3759499.317	70.12
LOCATION	L0001458	VOLUME	403528.162	3759508.094	70.18

LOCATION	L0001459	VOLUME	403523.135	3759516.871	70.13
LOCATION	L0001460	VOLUME	403518.109	3759525.649	70.26
LOCATION	L0001461	VOLUME	403513.082	3759534.426	70.53
LOCATION	L0001462	VOLUME	403508.056	3759543.204	70.83
LOCATION	L0001463	VOLUME	403503.030	3759551.981	71.13
LOCATION	L0001464	VOLUME	403498.003	3759560.759	71.07
LOCATION	L0001465	VOLUME	403492.977	3759569.536	71.01
LOCATION	L0001466	VOLUME	403487.976	3759578.328	70.99
LOCATION	L0001467	VOLUME	403482.977	3759587.121	71.05
LOCATION	L0001468	VOLUME	403477.977	3759595.914	71.14
LOCATION	L0001469	VOLUME	403472.978	3759604.708	71.24
LOCATION	L0001470	VOLUME	403467.979	3759613.501	71.43
LOCATION	L0001471	VOLUME	403462.980	3759622.294	71.63
LOCATION	L0001472	VOLUME	403457.981	3759631.087	71.77
LOCATION	L0001473	VOLUME	403452.982	3759639.880	71.85
LOCATION	L0001474	VOLUME	403447.562	3759648.419	71.87
LOCATION	L0001475	VOLUME	403442.134	3759656.954	71.94
LOCATION	L0001476	VOLUME	403436.705	3759665.489	72.05
LOCATION	L0001477	VOLUME	403431.277	3759674.024	72.20
LOCATION	L0001478	VOLUME	403425.849	3759682.559	72.31
LOCATION	L0001479	VOLUME	403420.421	3759691.094	72.30
LOCATION	L0001480	VOLUME	403414.993	3759699.629	72.34
LOCATION	L0001481	VOLUME	403409.565	3759708.164	72.42
LOCATION	L0001482	VOLUME	403404.137	3759716.699	72.47
LOCATION	L0001483	VOLUME	403398.723	3759725.243	72.48
LOCATION	L0001484	VOLUME	403393.576	3759733.950	72.47
LOCATION	L0001485	VOLUME	403388.428	3759742.657	72.44
LOCATION	L0001486	VOLUME	403383.281	3759751.364	72.37
LOCATION	L0001487	VOLUME	403378.133	3759760.071	72.29
LOCATION	L0001488	VOLUME	403372.986	3759768.778	72.20
LOCATION	L0001489	VOLUME	403367.838	3759777.485	72.12
LOCATION	L0001490	VOLUME	403362.691	3759786.192	72.06
LOCATION	L0001491	VOLUME	403357.543	3759794.899	72.03
LOCATION	L0001492	VOLUME	403352.396	3759803.606	72.02
LOCATION	L0001493	VOLUME	403347.248	3759812.313	71.99
LOCATION	L0001494	VOLUME	403342.101	3759821.020	71.94
LOCATION	L0001495	VOLUME	403336.953	3759829.727	71.89
LOCATION	L0001496	VOLUME	403331.806	3759838.434	71.81
LOCATION	L0001497	VOLUME	403326.658	3759847.141	71.78
LOCATION	L0001498	VOLUME	403321.511	3759855.848	71.74
LOCATION	L0001499	VOLUME	403316.364	3759864.555	71.66
LOCATION	L0001500	VOLUME	403311.216	3759873.262	71.53
LOCATION	L0001501	VOLUME	403306.069	3759881.969	71.43
LOCATION	L0001502	VOLUME	403300.921	3759890.677	71.36
LOCATION	L0001503	VOLUME	403295.774	3759899.384	71.35
LOCATION	L0001504	VOLUME	403290.626	3759908.091	71.32
LOCATION	L0001505	VOLUME	403285.479	3759916.798	71.27
LOCATION	L0001506	VOLUME	403280.331	3759925.505	71.20
LOCATION	L0001507	VOLUME	403275.184	3759934.212	71.19
LOCATION	L0001508	VOLUME	403270.036	3759942.919	71.22
LOCATION	L0001509	VOLUME	403264.889	3759951.626	71.20

LOCATION	L0001510	VOLUME	403259.741	3759960.333	71.10
LOCATION	L0001511	VOLUME	403254.594	3759969.040	71.01
LOCATION	L0001512	VOLUME	403249.446	3759977.747	70.98
LOCATION	L0001513	VOLUME	403244.299	3759986.454	70.96
LOCATION	L0001514	VOLUME	403239.151	3759995.161	70.92
LOCATION	L0001515	VOLUME	403234.004	3760003.868	70.88
LOCATION	L0001516	VOLUME	403228.856	3760012.575	70.84
LOCATION	L0001517	VOLUME	403223.709	3760021.282	70.80
LOCATION	L0001518	VOLUME	403218.561	3760029.989	70.75
LOCATION	L0001519	VOLUME	403213.414	3760038.696	70.67
LOCATION	L0001520	VOLUME	403208.267	3760047.403	70.56
LOCATION	L0001521	VOLUME	403203.119	3760056.110	70.47
LOCATION	L0001522	VOLUME	403197.972	3760064.817	70.46
LOCATION	L0001523	VOLUME	403192.824	3760073.525	70.49
LOCATION	L0001524	VOLUME	403187.677	3760082.232	70.47
LOCATION	L0001525	VOLUME	403182.529	3760090.939	70.45
LOCATION	L0001526	VOLUME	403177.382	3760099.646	70.42
LOCATION	L0001527	VOLUME	403172.234	3760108.353	70.40
LOCATION	L0001528	VOLUME	403167.087	3760117.060	70.47
LOCATION	L0001529	VOLUME	403161.939	3760125.767	70.47
LOCATION	L0001530	VOLUME	403156.792	3760134.474	70.40
LOCATION	L0001531	VOLUME	403151.644	3760143.181	70.29
LOCATION	L0001532	VOLUME	403146.497	3760151.888	70.32
LOCATION	L0001533	VOLUME	403141.349	3760160.595	70.34
LOCATION	L0001534	VOLUME	403136.202	3760169.302	70.30
LOCATION	L0001535	VOLUME	403131.054	3760178.009	70.19
LOCATION	L0001536	VOLUME	403125.907	3760186.716	70.07
LOCATION	L0001537	VOLUME	403120.759	3760195.423	69.98
LOCATION	L0001538	VOLUME	403115.612	3760204.130	69.95
LOCATION	L0001539	VOLUME	403110.464	3760212.837	70.08
LOCATION	L0001540	VOLUME	403105.317	3760221.544	70.15
LOCATION	L0001541	VOLUME	403100.170	3760230.251	70.18
LOCATION	L0001542	VOLUME	403095.022	3760238.958	70.24
LOCATION	L0001543	VOLUME	403089.875	3760247.665	70.34
LOCATION	L0001544	VOLUME	403084.727	3760256.373	70.40
LOCATION	L0001545	VOLUME	403079.580	3760265.080	70.43
LOCATION	L0001546	VOLUME	403074.432	3760273.787	70.55
LOCATION	L0001547	VOLUME	403069.285	3760282.494	70.74
LOCATION	L0001548	VOLUME	403064.137	3760291.201	70.91
LOCATION	L0001549	VOLUME	403058.990	3760299.908	71.04
LOCATION	L0001550	VOLUME	403053.842	3760308.615	71.16
LOCATION	L0001551	VOLUME	403048.695	3760317.322	71.30
LOCATION	L0001552	VOLUME	403043.547	3760326.029	71.36
LOCATION	L0001553	VOLUME	403038.400	3760334.736	71.25
LOCATION	L0001554	VOLUME	403033.252	3760343.443	71.12
LOCATION	L0001555	VOLUME	403028.105	3760352.150	70.98
LOCATION	L0001556	VOLUME	403022.957	3760360.857	70.90
LOCATION	L0001557	VOLUME	403017.810	3760369.564	71.03
LOCATION	L0001558	VOLUME	403012.662	3760378.271	71.07

** End of LINE VOLUME Source ID = SLINE4

** Source Parameters **

SRCPARAM	STCK1	6.59E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK2	6.59E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK3	6.59E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK4	6.59E-06	3.500	366.000	51.9	0.1
SRCPARAM	STCK5	6.59E-06	3.500	366.000	51.9	0.1
**	LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0001286	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001287	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001288	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001289	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001290	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001291	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001292	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001293	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001294	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001295	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001296	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001297	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001298	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001299	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001300	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001301	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001302	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001303	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001304	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001305	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001306	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001307	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001308	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001309	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001310	0.0000001023	3.50	4.00	4.96	
SRCPARAM	L0001311	0.0000001023	3.50	4.00	4.96	
**	-----					
**	LINE VOLUME Source ID = SLINE2					
SRCPARAM	L0001312	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001313	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001314	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001315	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001316	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001317	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001318	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001319	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001320	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001321	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001322	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001323	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001324	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001325	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001326	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001327	0.00000006387	3.50	4.00	1.63	
SRCPARAM	L0001328	0.00000006387	3.50	4.00	1.63	

SRCPARAM	L0001329	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001330	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001331	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001332	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001333	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001334	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001335	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001336	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001337	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001338	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001339	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001340	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001341	0.00000006387	3.50	4.00	1.63
SRCPARAM	L0001342	0.00000006387	3.50	4.00	1.63

**

 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0001343	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001344	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001345	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001346	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001347	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001348	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001349	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001350	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001351	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001352	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001353	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001354	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001355	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001356	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001357	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001358	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001359	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001360	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001361	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001362	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001363	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001364	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001365	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001366	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001367	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001368	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001369	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001370	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001371	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001372	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001373	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001374	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001375	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001376	0.00000001282	3.50	4.00	1.63
SRCPARAM	L0001377	0.00000001282	3.50	4.00	1.63

SRCPARAM	L0001429	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001430	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001431	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001432	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001433	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001434	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001435	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001436	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001437	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001438	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001439	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001440	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001441	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001442	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001443	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001444	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001445	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001446	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001447	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001448	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001449	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001450	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001451	0.000000001282	3.50	4.00	1.63
SRCPARAM	L0001452	0.000000001282	3.50	4.00	1.63

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** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0001453	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001454	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001455	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001456	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001457	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001458	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001459	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001460	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001461	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001462	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001463	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001464	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001465	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001466	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001467	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001468	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001469	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001470	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001471	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001472	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001473	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001474	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001475	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001476	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001477	0.00000003811	3.50	4.70	1.63

SRCPARAM	L0001529	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001530	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001531	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001532	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001533	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001534	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001535	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001536	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001537	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001538	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001539	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001540	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001541	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001542	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001543	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001544	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001545	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001546	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001547	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001548	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001549	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001550	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001551	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001552	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001553	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001554	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001555	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001556	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001557	0.00000003811	3.50	4.70	1.63
SRCPARAM	L0001558	0.00000003811	3.50	4.70	1.63

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** Building Downwash **

BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK1	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK2	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67

BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT	STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK1	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK1	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK1	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK2	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK2	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK2	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK3	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK3	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK3	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK4	226.00	215.18	198.68	178.77	153.42	124.12
BUILDWID	STCK4	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK4	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66
BUILDWID	STCK5	226.00	215.18	198.68	178.77	0.00	0.00
BUILDWID	STCK5	147.89	182.21	211.00	233.37	250.11	259.25
BUILDWID	STCK5	260.52	253.86	243.28	246.87	242.96	231.66

BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK1	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK1	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK1	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK2	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK2	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK2	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK3	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK3	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK3	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK4	233.37	250.11	259.25	260.52	253.86	243.28
BUILDLN	STCK4	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK4	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
BUILDLN	STCK5	233.37	250.11	259.25	260.52	0.00	0.00
BUILDLN	STCK5	246.87	242.96	231.66	226.00	215.18	198.68
BUILDLN	STCK5	178.77	153.42	124.12	147.89	182.21	211.00
XBADJ	STCK1	-18.55	-25.03	-30.75	-35.54	-39.24	-41.98
XBADJ	STCK1	-50.16	-56.82	-61.76	-77.50	-92.58	-104.85
XBADJ	STCK1	-113.93	-119.55	-121.54	-151.31	-178.11	-199.50
XBADJ	STCK1	-214.83	-225.08	-228.50	-224.98	-214.62	-201.31
XBADJ	STCK1	-196.71	-186.13	-169.90	-148.51	-122.60	-93.84
XBADJ	STCK1	-64.84	-33.87	-2.58	3.41	-4.11	-11.50
XBADJ	STCK2	-61.85	-77.35	-90.51	-100.91	-108.25	-112.51
XBADJ	STCK2	-120.08	-124.01	-124.17	-133.23	-139.95	-142.41
XBADJ	STCK2	-140.55	-134.41	-124.20	-141.67	-156.48	-166.53
XBADJ	STCK2	-171.52	-172.76	-168.74	-159.61	-145.62	-130.77
XBADJ	STCK2	-126.79	-118.94	-107.49	-92.77	-75.23	-56.27
XBADJ	STCK2	-38.22	-19.01	0.07	-6.22	-25.74	-44.47
XBADJ	STCK3	-31.60	-41.18	-49.50	-56.31	-61.42	-64.88

XBADJ	STCK3	-73.09	-79.09	-82.68	-96.44	-108.96	-118.18
XBADJ	STCK3	-123.81	-125.67	-123.72	-149.47	-172.32	-189.93
XBADJ	STCK3	-201.77	-208.94	-209.75	-204.20	-192.44	-178.41
XBADJ	STCK3	-173.78	-163.87	-148.98	-129.57	-106.21	-80.50
XBADJ	STCK3	-54.96	-27.75	-0.41	1.58	-9.90	-21.07
XBADJ	STCK4	-84.78	-104.42	-120.88	-133.68	-142.41	-147.03
XBADJ	STCK4	-153.92	-156.13	-153.59	-159.07	-161.41	-158.85
XBADJ	STCK4	-151.46	-139.47	-123.24	-134.73	-143.77	-148.44
XBADJ	STCK4	-148.60	-145.70	-138.37	-126.84	-111.45	-96.25
XBADJ	STCK4	-92.95	-86.83	-78.07	-66.94	-53.77	-39.84
XBADJ	STCK4	-27.31	-13.95	-0.88	-13.16	-38.44	-62.56
XBADJ	STCK5	-97.03	-123.24	-145.70	-163.73	0.00	0.00
XBADJ	STCK5	-193.72	-196.86	-194.01	-197.95	-197.57	-191.19
XBADJ	STCK5	-179.00	-161.37	-138.84	-143.56	-145.55	-143.12
XBADJ	STCK5	-136.34	-126.87	-113.55	-96.78	0.00	0.00
XBADJ	STCK5	-53.15	-46.10	-37.65	-28.06	-17.61	-7.49
XBADJ	STCK5	0.23	7.95	14.72	-4.33	-36.66	-67.88
YBADJ	STCK1	-35.50	-15.01	5.51	24.55	42.84	59.48
YBADJ	STCK1	77.36	87.00	94.00	98.14	100.03	98.88
YBADJ	STCK1	94.72	87.69	79.67	73.27	64.65	54.07
YBADJ	STCK1	35.50	15.01	-5.51	-24.55	-42.84	-59.48
YBADJ	STCK1	-77.36	-87.00	-94.00	-98.14	-100.03	-98.88
YBADJ	STCK1	-94.72	-87.69	-79.67	-73.27	-64.65	-54.07
YBADJ	STCK2	20.23	32.36	43.07	51.16	57.70	62.13
YBADJ	STCK2	67.72	65.37	61.03	54.84	47.70	39.12
YBADJ	STCK2	29.35	18.69	9.13	3.35	-2.53	-8.34
YBADJ	STCK2	-20.23	-32.36	-43.07	-51.16	-57.70	-62.13
YBADJ	STCK2	-67.72	-65.37	-61.03	-54.84	-47.70	-39.12
YBADJ	STCK2	-29.35	-18.69	-9.13	-3.35	2.53	8.34
YBADJ	STCK3	-16.56	1.38	18.84	34.42	48.96	61.65
YBADJ	STCK3	75.52	81.21	84.43	85.08	83.88	80.13
YBADJ	STCK3	73.94	65.51	56.76	50.34	42.39	33.15
YBADJ	STCK3	16.56	-1.38	-18.84	-34.42	-48.96	-61.65
YBADJ	STCK3	-75.52	-81.21	-84.43	-85.08	-83.88	-80.13
YBADJ	STCK3	-73.94	-65.51	-56.76	-50.34	-42.39	-33.15
YBADJ	STCK4	46.06	53.82	59.50	62.07	62.76	61.18
YBADJ	STCK4	60.79	52.66	42.94	31.91	20.64	8.74
YBADJ	STCK4	-3.42	-15.48	-25.39	-30.48	-34.65	-37.76
YBADJ	STCK4	-46.06	-53.82	-59.50	-62.07	-62.76	-61.18
YBADJ	STCK4	-60.79	-52.66	-42.94	-31.91	-20.64	-8.74
YBADJ	STCK4	3.42	15.48	25.39	30.48	34.65	37.76
YBADJ	STCK5	84.95	89.98	91.85	89.62	0.00	0.00
YBADJ	STCK5	69.61	54.44	37.62	19.65	1.82	-16.07
YBADJ	STCK5	-33.48	-49.86	-63.06	-70.28	-75.38	-78.18

YBADJ	STCK5	-84.95	-89.98	-91.85	-89.62	0.00	0.00
YBADJ	STCK5	-69.61	-54.44	-37.62	-19.65	-1.82	16.07
YBADJ	STCK5	33.48	49.86	63.06	70.28	75.38	78.18

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19391 Whittier Blvd BP 2nd 14YR.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"

PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"

SURFDATA 3166 2010

UAIRDATA 3190 2010

SITEDATA 99999 2010

PROFBASE 58.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19391 WHITTIER BLVD BP 2ND 14YR.AD\PE00GALL.PLT" 31

SUMMFILE "19391 Whittier Blvd BP 2nd 14YR.sum"

OU FINISHED

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

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

A Total of	0 Fatal Error Message(s)
A Total of	7 Warning Message(s)
A Total of	0 Informational Message(s)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 22112 ***	*** 19391 Whittier Blvd BP	***	06/26/23
*** AERMET - VERSION 16216 ***	*** DPM Concentrations 2nd 14YR 2041-2054	***	19:44:58
*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*			PAGE 1

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses URBAN Dispersion Algorithm for the SBL for 278 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m
- * Urban Roughness Length of 1.0 Meter Used.
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * 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: 278 Source(s); 1 Source Group(s); and 450 Receptor(s)

```

with:      5 POINT(s), including
          0 POINTCAP(s) and    0 POINTHOR(s)
and:      273 VOLUME source(s)
and:      0 AREA type source(s)
and:      0 LINE source(s)
and:      0 RLINE/RLINEXT source(s)
and:      0 OPENPIT source(s)
and:      0 BUOYANT LINE source(s) with a total of    0 line(s)
and:      0 SWPOINT source(s)

```

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 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) = 58.00 ; 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 = 4.0 MB of RAM.

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

**Detailed Error/Message File: 19391 Whittier Blvd BP 2nd 14YR.err
**File for Summary of Results: 19391 Whittier Blvd BP 2nd 14YR.sum

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*** AERMOD - VERSION 22112 ***    *** 19391 Whittier Blvd BP                ***    06/26/23
*** AERMET - VERSION 16216 ***    *** DPM Concentrations 2nd 14YR 2041-2054 ***    19:44:58
*** MODELOPTs:  RegDFAULT CONC  ELEV  URBAN  ADJ_U*                               ***    PAGE  2

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*** 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	0.65900E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	

STCK2	0	0.65900E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO
STCK3	0	0.65900E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO
STCK4	0	0.65900E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO
STCK5	0	0.65900E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054 ***
06/26/23
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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
L0001286	0	0.10230E-06	403373.9	3759654.0	68.8	3.50	4.00	4.96	YES	
L0001287	0	0.10230E-06	403367.6	3759648.2	68.2	3.50	4.00	4.96	YES	
L0001288	0	0.10230E-06	403361.9	3759641.8	68.2	3.50	4.00	4.96	YES	
L0001289	0	0.10230E-06	403355.7	3759635.8	68.2	3.50	4.00	4.96	YES	
L0001290	0	0.10230E-06	403348.6	3759631.2	68.1	3.50	4.00	4.96	YES	
L0001291	0	0.10230E-06	403341.0	3759627.0	68.1	3.50	4.00	4.96	YES	
L0001292	0	0.10230E-06	403333.5	3759622.9	68.0	3.50	4.00	4.96	YES	
L0001293	0	0.10230E-06	403326.0	3759618.8	67.8	3.50	4.00	4.96	YES	
L0001294	0	0.10230E-06	403318.5	3759614.6	67.7	3.50	4.00	4.96	YES	
L0001295	0	0.10230E-06	403311.0	3759610.4	67.7	3.50	4.00	4.96	YES	
L0001296	0	0.10230E-06	403303.5	3759606.1	67.6	3.50	4.00	4.96	YES	
L0001297	0	0.10230E-06	403296.0	3759601.9	67.6	3.50	4.00	4.96	YES	
L0001298	0	0.10230E-06	403288.6	3759597.7	67.5	3.50	4.00	4.96	YES	
L0001299	0	0.10230E-06	403281.1	3759593.4	67.5	3.50	4.00	4.96	YES	
L0001300	0	0.10230E-06	403273.6	3759589.2	67.4	3.50	4.00	4.96	YES	
L0001301	0	0.10230E-06	403266.1	3759585.0	67.4	3.50	4.00	4.96	YES	
L0001302	0	0.10230E-06	403258.6	3759580.7	67.2	3.50	4.00	4.96	YES	
L0001303	0	0.10230E-06	403251.2	3759576.5	67.1	3.50	4.00	4.96	YES	
L0001304	0	0.10230E-06	403243.7	3759572.3	67.0	3.50	4.00	4.96	YES	
L0001305	0	0.10230E-06	403236.2	3759568.1	66.9	3.50	4.00	4.96	YES	
L0001306	0	0.10230E-06	403228.7	3759563.8	66.8	3.50	4.00	4.96	YES	
L0001307	0	0.10230E-06	403221.3	3759559.6	66.8	3.50	4.00	4.96	YES	
L0001308	0	0.10230E-06	403213.8	3759555.4	66.7	3.50	4.00	4.96	YES	
L0001309	0	0.10230E-06	403206.3	3759551.1	66.5	3.50	4.00	4.96	YES	
L0001310	0	0.10230E-06	403198.8	3759546.9	66.2	3.50	4.00	4.96	YES	
L0001311	0	0.10230E-06	403191.3	3759542.7	65.9	3.50	4.00	4.96	YES	
L0001312	0	0.63870E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	
L0001313	0	0.63870E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES	
L0001314	0	0.63870E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES	
L0001315	0	0.63870E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES	
L0001316	0	0.63870E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES	
L0001317	0	0.63870E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES	
L0001318	0	0.63870E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES	

L0001319	0	0.63870E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0001320	0	0.63870E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0001321	0	0.63870E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0001322	0	0.63870E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0001323	0	0.63870E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0001324	0	0.63870E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0001325	0	0.63870E-07	403440.8	3759562.9	69.5	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054

*** 06/26/23
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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
L0001326	0	0.63870E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0001327	0	0.63870E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0001328	0	0.63870E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0001329	0	0.63870E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0001330	0	0.63870E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0001331	0	0.63870E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0001332	0	0.63870E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0001333	0	0.63870E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0001334	0	0.63870E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0001335	0	0.63870E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0001336	0	0.63870E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0001337	0	0.63870E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0001338	0	0.63870E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0001339	0	0.63870E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0001340	0	0.63870E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0001341	0	0.63870E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0001342	0	0.63870E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0001343	0	0.12820E-08	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0001344	0	0.12820E-08	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0001345	0	0.12820E-08	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0001346	0	0.12820E-08	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0001347	0	0.12820E-08	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0001348	0	0.12820E-08	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0001349	0	0.12820E-08	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	
L0001350	0	0.12820E-08	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES	
L0001351	0	0.12820E-08	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES	
L0001352	0	0.12820E-08	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES	
L0001353	0	0.12820E-08	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES	
L0001354	0	0.12820E-08	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES	
L0001355	0	0.12820E-08	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES	

L0001356	0	0.12820E-08	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0001357	0	0.12820E-08	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0001358	0	0.12820E-08	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0001359	0	0.12820E-08	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0001360	0	0.12820E-08	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0001361	0	0.12820E-08	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0001362	0	0.12820E-08	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0001363	0	0.12820E-08	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0001364	0	0.12820E-08	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0001365	0	0.12820E-08	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
*** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054

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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
L0001366	0	0.12820E-08	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES	
L0001367	0	0.12820E-08	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES	
L0001368	0	0.12820E-08	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES	
L0001369	0	0.12820E-08	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES	
L0001370	0	0.12820E-08	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES	
L0001371	0	0.12820E-08	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES	
L0001372	0	0.12820E-08	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES	
L0001373	0	0.12820E-08	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES	
L0001374	0	0.12820E-08	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES	
L0001375	0	0.12820E-08	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES	
L0001376	0	0.12820E-08	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES	
L0001377	0	0.12820E-08	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES	
L0001378	0	0.12820E-08	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES	
L0001379	0	0.12820E-08	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES	
L0001380	0	0.12820E-08	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES	
L0001381	0	0.12820E-08	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES	
L0001382	0	0.12820E-08	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES	
L0001383	0	0.12820E-08	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES	
L0001384	0	0.12820E-08	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES	
L0001385	0	0.12820E-08	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES	
L0001386	0	0.12820E-08	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES	
L0001387	0	0.12820E-08	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES	
L0001388	0	0.12820E-08	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES	
L0001389	0	0.12820E-08	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES	
L0001390	0	0.12820E-08	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES	
L0001391	0	0.12820E-08	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES	
L0001392	0	0.12820E-08	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES	

L0001430	0	0.12820E-08	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0001431	0	0.12820E-08	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0001432	0	0.12820E-08	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0001433	0	0.12820E-08	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0001434	0	0.12820E-08	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0001435	0	0.12820E-08	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0001436	0	0.12820E-08	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0001437	0	0.12820E-08	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0001438	0	0.12820E-08	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0001439	0	0.12820E-08	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0001440	0	0.12820E-08	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0001441	0	0.12820E-08	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0001442	0	0.12820E-08	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0001443	0	0.12820E-08	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0001444	0	0.12820E-08	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0001445	0	0.12820E-08	403191.6	3759042.5	53.8	3.50	4.00	1.63	YES

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	PART. CATS.	NUMBER 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
L0001446	0	0.12820E-08	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0001447	0	0.12820E-08	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0001448	0	0.12820E-08	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0001449	0	0.12820E-08	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0001450	0	0.12820E-08	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0001451	0	0.12820E-08	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0001452	0	0.12820E-08	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0001453	0	0.38110E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0001454	0	0.38110E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0001455	0	0.38110E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0001456	0	0.38110E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0001457	0	0.38110E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0001458	0	0.38110E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0001459	0	0.38110E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0001460	0	0.38110E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	
L0001461	0	0.38110E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES	
L0001462	0	0.38110E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES	
L0001463	0	0.38110E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES	
L0001464	0	0.38110E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES	
L0001465	0	0.38110E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES	
L0001466	0	0.38110E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES	

L0001467	0	0.38110E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0001468	0	0.38110E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0001469	0	0.38110E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0001470	0	0.38110E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0001471	0	0.38110E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0001472	0	0.38110E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0001473	0	0.38110E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0001474	0	0.38110E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0001475	0	0.38110E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0001476	0	0.38110E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0001477	0	0.38110E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0001478	0	0.38110E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0001479	0	0.38110E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0001480	0	0.38110E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0001481	0	0.38110E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0001482	0	0.38110E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0001483	0	0.38110E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0001484	0	0.38110E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0001485	0	0.38110E-07	403388.4	3759742.7	72.4	3.50	4.70	1.63	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
L0001486	0	0.38110E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0001487	0	0.38110E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0001488	0	0.38110E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0001489	0	0.38110E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0001490	0	0.38110E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0001491	0	0.38110E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0001492	0	0.38110E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0001493	0	0.38110E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0001494	0	0.38110E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0001495	0	0.38110E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0001496	0	0.38110E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0001497	0	0.38110E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	
L0001498	0	0.38110E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES	
L0001499	0	0.38110E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES	
L0001500	0	0.38110E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES	
L0001501	0	0.38110E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES	
L0001502	0	0.38110E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES	
L0001503	0	0.38110E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES	

L0001521 , L0001522 , L0001523 , L0001524 , L0001525 , L0001526 , L0001527 , L0001528 ,
 L0001529 , L0001530 , L0001531 , L0001532 , L0001533 , L0001534 , L0001535 , L0001536 ,
 L0001537 , L0001538 , L0001539 , L0001540 , L0001541 , L0001542 , L0001543 , L0001544 ,
 L0001545 , L0001546 , L0001547 , L0001548 , L0001549 , L0001550 , L0001551 , L0001552 ,
 L0001553 , L0001554 , L0001555 , L0001556 , L0001557 , L0001558 ,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs							
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L0001288	9818605.	STCK1	STCK2	STCK3	STCK4	STCK5	L0001286	L0001287	
	,								
	L0001289	L0001290	L0001291	L0001292	L0001293	L0001294	L0001295	L0001296	
	L0001297	L0001298	L0001299	L0001300	L0001301	L0001302	L0001303	L0001304	
	L0001305	L0001306	L0001307	L0001308	L0001309	L0001310	L0001311	L0001312	
	L0001313	L0001314	L0001315	L0001316	L0001317	L0001318	L0001319	L0001320	
	L0001321	L0001322	L0001323	L0001324	L0001325	L0001326	L0001327	L0001328	
	L0001329	L0001330	L0001331	L0001332	L0001333	L0001334	L0001335	L0001336	
	L0001337	L0001338	L0001339	L0001340	L0001341	L0001342	L0001343	L0001344	
	L0001345	L0001346	L0001347	L0001348	L0001349	L0001350	L0001351	L0001352	
	L0001353	L0001354	L0001355	L0001356	L0001357	L0001358	L0001359	L0001360	
	L0001361	L0001362	L0001363	L0001364	L0001365	L0001366	L0001367	L0001368	
	L0001369	L0001370	L0001371	L0001372	L0001373	L0001374	L0001375	L0001376	
	L0001377	L0001378	L0001379	L0001380	L0001381	L0001382	L0001383	L0001384	
	L0001385	L0001386	L0001387	L0001388	L0001389	L0001390	L0001391	L0001392	

L0001545 , L0001546 , L0001547 , L0001548 , L0001549 , L0001550 , L0001551 , L0001552 ,
 L0001553 , L0001554 , L0001555 , L0001556 , L0001557 , L0001558 ,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054 *** 19:44:58
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*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7	226.0	233.4	-18.6	-35.5	2	10.7	215.2	250.1	-25.0	-15.0
3	10.7	198.7	259.2	-30.8	5.5	4	10.7	178.8	260.5	-35.5	24.6
5	10.7	153.4	253.9	-39.2	42.8	6	10.7	124.1	243.3	-42.0	59.5
7	10.7	147.9	246.9	-50.2	77.4	8	10.7	182.2	243.0	-56.8	87.0
9	10.7	211.0	231.7	-61.8	94.0	10	10.7	233.4	226.0	-77.5	98.1
11	10.7	250.1	215.2	-92.6	100.0	12	10.7	259.2	198.7	-104.8	98.9
13	10.7	260.5	178.8	-113.9	94.7	14	10.7	253.9	153.4	-119.5	87.7
15	10.7	243.3	124.1	-121.5	79.7	16	10.7	246.9	147.9	-151.3	73.3
17	10.7	243.0	182.2	-178.1	64.6	18	10.7	231.7	211.0	-199.5	54.1
19	10.7	226.0	233.4	-214.8	35.5	20	10.7	215.2	250.1	-225.1	15.0
21	10.7	198.7	259.2	-228.5	-5.5	22	10.7	178.8	260.5	-225.0	-24.6
23	10.7	153.4	253.9	-214.6	-42.8	24	10.7	124.1	243.3	-201.3	-59.5
25	10.7	147.9	246.9	-196.7	-77.4	26	10.7	182.2	243.0	-186.1	-87.0
27	10.7	211.0	231.7	-169.9	-94.0	28	10.7	233.4	226.0	-148.5	-98.1
29	10.7	250.1	215.2	-122.6	-100.0	30	10.7	259.2	198.7	-93.8	-98.9
31	10.7	260.5	178.8	-64.8	-94.7	32	10.7	253.9	153.4	-33.9	-87.7
33	10.7	243.3	124.1	-2.6	-79.7	34	10.7	246.9	147.9	3.4	-73.3
35	10.7	243.0	182.2	-4.1	-64.6	36	10.7	231.7	211.0	-11.5	-54.1

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7	226.0	233.4	-61.8	20.2	2	10.7	215.2	250.1	-77.3	32.4
3	10.7	198.7	259.2	-90.5	43.1	4	10.7	178.8	260.5	-100.9	51.2
5	10.7	153.4	253.9	-108.2	57.7	6	10.7	124.1	243.3	-112.5	62.1
7	10.7	147.9	246.9	-120.1	67.7	8	10.7	182.2	243.0	-124.0	65.4
9	10.7	211.0	231.7	-124.2	61.0	10	10.7	233.4	226.0	-133.2	54.8
11	10.7	250.1	215.2	-140.0	47.7	12	10.7	259.2	198.7	-142.4	39.1
13	10.7	260.5	178.8	-140.6	29.4	14	10.7	253.9	153.4	-134.4	18.7
15	10.7	243.3	124.1	-124.2	9.1	16	10.7	246.9	147.9	-141.7	3.3
17	10.7	243.0	182.2	-156.5	-2.5	18	10.7	231.7	211.0	-166.5	-8.3
19	10.7	226.0	233.4	-171.5	-20.2	20	10.7	215.2	250.1	-172.8	-32.4
21	10.7	198.7	259.2	-168.7	-43.1	22	10.7	178.8	260.5	-159.6	-51.2
23	10.7	153.4	253.9	-145.6	-57.7	24	10.7	124.1	243.3	-130.8	-62.1
25	10.7	147.9	246.9	-126.8	-67.7	26	10.7	182.2	243.0	-118.9	-65.4
27	10.7	211.0	231.7	-107.5	-61.0	28	10.7	233.4	226.0	-92.8	-54.8
29	10.7	250.1	215.2	-75.2	-47.7	30	10.7	259.2	198.7	-56.3	-39.1

31	10.7,	260.5,	178.8,	-38.2,	-29.4,	32	10.7,	253.9,	153.4,	-19.0,	-18.7,
33	10.7,	243.3,	124.1,	0.1,	-9.1,	34	10.7,	246.9,	147.9,	-6.2,	-3.3,
35	10.7,	243.0,	182.2,	-25.7,	2.5,	36	10.7,	231.7,	211.0,	-44.5,	8.3,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-31.6,	-16.6,	2	10.7,	215.2,	250.1,	-41.2,	1.4,
3	10.7,	198.7,	259.2,	-49.5,	18.8,	4	10.7,	178.8,	260.5,	-56.3,	34.4,
5	10.7,	153.4,	253.9,	-61.4,	49.0,	6	10.7,	124.1,	243.3,	-64.9,	61.6,
7	10.7,	147.9,	246.9,	-73.1,	75.5,	8	10.7,	182.2,	243.0,	-79.1,	81.2,
9	10.7,	211.0,	231.7,	-82.7,	84.4,	10	10.7,	233.4,	226.0,	-96.4,	85.1,
11	10.7,	250.1,	215.2,	-109.0,	83.9,	12	10.7,	259.2,	198.7,	-118.2,	80.1,
13	10.7,	260.5,	178.8,	-123.8,	73.9,	14	10.7,	253.9,	153.4,	-125.7,	65.5,
15	10.7,	243.3,	124.1,	-123.7,	56.8,	16	10.7,	246.9,	147.9,	-149.5,	50.3,
17	10.7,	243.0,	182.2,	-172.3,	42.4,	18	10.7,	231.7,	211.0,	-189.9,	33.1,
19	10.7,	226.0,	233.4,	-201.8,	16.6,	20	10.7,	215.2,	250.1,	-208.9,	-1.4,
21	10.7,	198.7,	259.2,	-209.8,	-18.8,	22	10.7,	178.8,	260.5,	-204.2,	-34.4,
23	10.7,	153.4,	253.9,	-192.4,	-49.0,	24	10.7,	124.1,	243.3,	-178.4,	-61.6,
25	10.7,	147.9,	246.9,	-173.8,	-75.5,	26	10.7,	182.2,	243.0,	-163.9,	-81.2,
27	10.7,	211.0,	231.7,	-149.0,	-84.4,	28	10.7,	233.4,	226.0,	-129.6,	-85.1,
29	10.7,	250.1,	215.2,	-106.2,	-83.9,	30	10.7,	259.2,	198.7,	-80.5,	-80.1,
31	10.7,	260.5,	178.8,	-55.0,	-73.9,	32	10.7,	253.9,	153.4,	-27.8,	-65.5,
33	10.7,	243.3,	124.1,	-0.4,	-56.8,	34	10.7,	246.9,	147.9,	1.6,	-50.3,
35	10.7,	243.0,	182.2,	-9.9,	-42.4,	36	10.7,	231.7,	211.0,	-21.1,	-33.1,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	226.0,	233.4,	-84.8,	46.1,	2	10.7,	215.2,	250.1,	-104.4,	53.8,
3	10.7,	198.7,	259.2,	-120.9,	59.5,	4	10.7,	178.8,	260.5,	-133.7,	62.1,
5	10.7,	153.4,	253.9,	-142.4,	62.8,	6	10.7,	124.1,	243.3,	-147.0,	61.2,
7	10.7,	147.9,	246.9,	-153.9,	60.8,	8	10.7,	182.2,	243.0,	-156.1,	52.7,
9	10.7,	211.0,	231.7,	-153.6,	42.9,	10	10.7,	233.4,	226.0,	-159.1,	31.9,
11	10.7,	250.1,	215.2,	-161.4,	20.6,	12	10.7,	259.2,	198.7,	-158.9,	8.7,
13	10.7,	260.5,	178.8,	-151.5,	-3.4,	14	10.7,	253.9,	153.4,	-139.5,	-15.5,
15	10.7,	243.3,	124.1,	-123.2,	-25.4,	16	10.7,	246.9,	147.9,	-134.7,	-30.5,
17	10.7,	243.0,	182.2,	-143.8,	-34.6,	18	10.7,	231.7,	211.0,	-148.4,	-37.8,
19	10.7,	226.0,	233.4,	-148.6,	-46.1,	20	10.7,	215.2,	250.1,	-145.7,	-53.8,
21	10.7,	198.7,	259.2,	-138.4,	-59.5,	22	10.7,	178.8,	260.5,	-126.8,	-62.1,
23	10.7,	153.4,	253.9,	-111.5,	-62.8,	24	10.7,	124.1,	243.3,	-96.2,	-61.2,
25	10.7,	147.9,	246.9,	-93.0,	-60.8,	26	10.7,	182.2,	243.0,	-86.8,	-52.7,
27	10.7,	211.0,	231.7,	-78.1,	-42.9,	28	10.7,	233.4,	226.0,	-66.9,	-31.9,
29	10.7,	250.1,	215.2,	-53.8,	-20.6,	30	10.7,	259.2,	198.7,	-39.8,	-8.7,
31	10.7,	260.5,	178.8,	-27.3,	3.4,	32	10.7,	253.9,	153.4,	-14.0,	15.5,
33	10.7,	243.3,	124.1,	-0.9,	25.4,	34	10.7,	246.9,	147.9,	-13.2,	30.5,
35	10.7,	243.0,	182.2,	-38.4,	34.6,	36	10.7,	231.7,	211.0,	-62.6,	37.8,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054

*** 06/26/23
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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	10.7	226.0	233.4	-97.0	85.0	2	10.7	215.2	250.1	-123.2	90.0
3	10.7	198.7	259.2	-145.7	91.8	4	10.7	178.8	260.5	-163.7	89.6
5	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0
7	10.7	147.9	246.9	-193.7	69.6	8	10.7	182.2	243.0	-196.9	54.4
9	10.7	211.0	231.7	-194.0	37.6	10	10.7	233.4	226.0	-198.0	19.7
11	10.7	250.1	215.2	-197.6	1.8	12	10.7	259.2	198.7	-191.2	-16.1
13	10.7	260.5	178.8	-179.0	-33.5	14	10.7	253.9	153.4	-161.4	-49.9
15	10.7	243.3	124.1	-138.8	-63.1	16	10.7	246.9	147.9	-143.6	-70.3
17	10.7	243.0	182.2	-145.6	-75.4	18	10.7	231.7	211.0	-143.1	-78.2
19	10.7	226.0	233.4	-136.3	-85.0	20	10.7	215.2	250.1	-126.9	-90.0
21	10.7	198.7	259.2	-113.5	-91.8	22	10.7	178.8	260.5	-96.8	-89.6
23	0.0	0.0	0.0	0.0	0.0	24	0.0	0.0	0.0	0.0	0.0
25	10.7	147.9	246.9	-53.1	-69.6	26	10.7	182.2	243.0	-46.1	-54.4
27	10.7	211.0	231.7	-37.6	-37.6	28	10.7	233.4	226.0	-28.1	-19.7
29	10.7	250.1	215.2	-17.6	-1.8	30	10.7	259.2	198.7	-7.5	16.1
31	10.7	260.5	178.8	0.2	33.5	32	10.7	253.9	153.4	8.0	49.9
33	10.7	243.3	124.1	14.7	63.1	34	10.7	246.9	147.9	-4.3	70.3
35	10.7	243.0	182.2	-36.7	75.4	36	10.7	231.7	211.0	-67.9	78.2

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP

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*** AERMET - VERSION 16216 *** DPM Concentrations 2nd 14YR 2041-2054

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

402680.3, 402746.2, 402812.2, 402878.1, 402944.0, 403010.0, 403075.9, 403141.8, 403207.8, 403273.7,
403339.6, 403405.5, 403471.5, 403537.4, 403603.3, 403669.3, 403735.2, 403801.1, 403867.1, 403933.0,
403998.9,

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

3759000.9, 3759070.5, 3759140.2, 3759209.8, 3759279.4, 3759349.0, 3759418.7, 3759488.3, 3759557.9, 3759627.6,
3759697.2, 3759766.8, 3759836.5, 3759906.1, 3759975.7, 3760045.4, 3760115.0, 3760184.6, 3760254.2, 3760323.9,
3760393.5,

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70

3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2nd 14YR 2041-2054 *** 19:44:58
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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)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	67.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	59.00	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	62.60
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	57.50	56.80	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2nd 14YR 2041-2054 *** 19:44:58
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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)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
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3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2nd 14YR 2041-2054 *** 19:44:58
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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(403076.6, 3759566.9,	63.0,	63.0,	0.0);	(403074.6, 3759594.7,	63.1,	63.1,	0.0);
(403074.3, 3759652.4,	63.8,	63.8,	0.0);	(403036.2, 3759545.2,	61.6,	61.6,	0.0);
(403491.1, 3759689.7,	73.7,	73.7,	0.0);	(403558.2, 3759512.8,	71.0,	71.0,	0.0);
(403587.6, 3759479.4,	70.9,	70.9,	0.0);	(403471.1, 3759691.3,	73.3,	73.3,	0.0);
(403097.0, 3760166.2,	69.1,	69.1,	0.0);				

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*** AERMOD - VERSION 22112 ***   *** 19391 Whittier Blvd BP           ***   06/26/23
*** AERMET - VERSION 16216 ***   *** DPM Concentrations 2nd 14YR 2041-2054 *** 19:44:58
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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
  LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

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SOURCE ID	- - RECEPTOR LOCATION - -	DISTANCE (METERS)
	XR (METERS) YR (METERS)	
L0001291	403339.6 3759627.6	-7.09
L0001292	403339.6 3759627.6	-0.90
L0001308	403207.8 3759557.9	-2.06
L0001309	403207.8 3759557.9	-1.64
L0001316	403405.5 3759627.6	-4.59
L0001317	403405.5 3759627.6	-3.45
L0001347	403537.4 3759418.7	0.82
L0001375	403669.3 3759209.8	-3.56
L0001376	403669.3 3759209.8	-5.02
L0001427	403339.6 3759070.5	-4.58
L0001428	403339.6 3759070.5	-3.94
L0001455	403537.4 3759488.3	-1.57
L0001456	403537.4 3759488.3	-7.74
L0001471	403471.5 3759627.6	-0.10
L0001480	403405.5 3759697.2	-0.35
L0001495	403339.6 3759836.5	-2.86
L0001496	403339.6 3759836.5	-2.05

10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10	01	01	1	21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10	01	01	1	22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5
10	01	01	1	23	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	178.	9.1	284.2	5.5
10	01	01	1	24	-11.8	0.154	-9.000	-9.000	-999.	145.	27.6	0.34	0.73	1.00	1.30	28.	9.1	283.1	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	283.8	99.0	-99.00	-99.00
10	01	01	01	9.1	1	321.	3.10	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 22112 *** *** 19391 Whittier Blvd BP *** 06/26/23
 *** AERMET - VERSION 16216 *** *** DPM Concentrations 2nd 14YR 2041-2054 *** 19:44:58
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
 L0001286 , L0001287 , L0001288 , L0001289 , L0001290 , L0001291 , L0001292 , L0001293 ,
 L0001294 , L0001295 , L0001296 , L0001297 , L0001298 , L0001299 , L0001300 , L0001301 ,
 L0001302 , L0001303 , L0001304 , L0001305 , L0001306 , L0001307 , L0001308 , . . . ,

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

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

Y-COORD (METERS)	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	0.00006	0.00007	0.00008	0.00009	0.00012	0.00025	0.00017	0.00015	0.00014
3760323.87	0.00006	0.00007	0.00009	0.00011	0.00014	0.00028	0.00034	0.00020	0.00018

DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 22112 *** 19391 Whittier Blvd BP
*** AERMET - VERSION 16216 *** DPM Concentrations 2nd 14YR 2041-2054

*** 06/26/23
*** 19:44:58
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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 9 Warning Message(s)
A Total of 1277 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 152 Calm Hours Identified

A Total of 1125 Missing Hours Identified (2.57 Percent)

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

***** WARNING MESSAGES *****

SO W320	408	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	409	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	410	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	411	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	412	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	896	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	896	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	15010101
MX W450	26305	CHKDAT: Record Out of Sequence in Meteorological File at:	2 year gap

*** AERMOD Finishes Successfully ***

EMFAC2021 for South Coast AQMD

PM2.5 Running and Idling Exhaust

Averages at bottom of the sheet

Area	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						(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)
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	0	0.778842	0.777688	0.777509	0.777544	0.777539	0.77765	0.777228	0.776552	0.772631	0.770784	0.768303	0.765381	0.761339
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	5	0.072381	0.065732	0.060612	0.056486	0.053235	0.050727	0.048784	0.047295	0.046041	0.04507	0.044345	0.043925	0.043383
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	10	0.059607	0.054347	0.050289	0.04702	0.044449	0.042473	0.040952	0.039803	0.03887	0.03818	0.037707	0.037493	0.037198
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	35	0.023739	0.02193	0.020552	0.019459	0.018621	0.017998	0.017541	0.017219	0.016983	0.016838	0.016776	0.01681	0.016819
South Coast AQMD	Annual	MHDT	DSL	Aggregated	0	0.086748	0.07273	0.060303	0.049764	0.041162	0.034359	0.028849	0.024397	0.020752	0.018038	0.015804	0.014045	0.012547
South Coast AQMD	Annual	MHDT	DSL	Aggregated	5	0.055457	0.047035	0.039388	0.032878	0.027462	0.023065	0.019496	0.016589	0.014187	0.012242	0.010647	0.009378	0.008311
South Coast AQMD	Annual	MHDT	DSL	Aggregated	10	0.045219	0.038328	0.032074	0.026749	0.022318	0.018721	0.015799	0.013418	0.011449	0.009852	0.008541	0.007498	0.006618
South Coast AQMD	Annual	MHDT	DSL	Aggregated	35	0.010371	0.008966	0.007687	0.006597	0.005684	0.004945	0.004336	0.003836	0.003412	0.003062	0.002766	0.002529	0.002319
South Coast AQMD	Annual	HHDT	DSL	Aggregated	0	0.016309	0.015375	0.014634	0.013923	0.013343	0.012838	0.012276	0.011792	0.011375	0.011065	0.010815	0.010558	0.010383
South Coast AQMD	Annual	HHDT	DSL	Aggregated	5	0.014741	0.014315	0.013927	0.013603	0.013294	0.013002	0.012669	0.012344	0.012015	0.011674	0.011385	0.011096	0.010891
South Coast AQMD	Annual	HHDT	DSL	Aggregated	10	0.012582	0.012166	0.011786	0.011464	0.011116	0.010875	0.010558	0.01025	0.009941	0.009624	0.009354	0.009087	0.008898
South Coast AQMD	Annual	HHDT	DSL	Aggregated	35	0.008564	0.008261	0.007966	0.00773	0.007515	0.00732	0.007119	0.006927	0.006736	0.006543	0.006372	0.006207	0.006082

	14 yr 2027-2040	14 yr 2027-2040	14 yr 2027-2040	14 yr 2027-2040
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.04554	0.03871	0.01716	0.76775
MHDT	0.01234	0.00993	0.00305	0.01857
HHDT	0.01154	0.00948	0.00644	0.01107

	14 yr 2041-2054	14 yr 2041-2054	14 yr 2041-2054	14 yr 2041-2054
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.04075	0.03537	0.01654	0.76173
MHDT	0.00414	0.00320	0.00151	0.00731
HHDT	0.01010	0.00818	0.00564	0.00973

	2 yr 2025-2026	2 yr 2025-2026	2 yr 2025-2026	2 yr 2025-2026
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.05855	0.04865	0.02001	0.77753
MHDT	0.03613	0.02941	0.00714	0.05503
HHDT	0.01376	0.01163	0.00785	0.01428

	1 yr 2024	1 yr 2024	1 yr 2024	1 yr 2024
	5 mph	10 mph	35 mph	0 mph (idling)
LHDT2	0.08144	0.05435	0.02193	0.77769
MHDT	0.06814	0.03833	0.00897	0.07273
HHDT	0.02111	0.01217	0.00826	0.01537

2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
(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)
0.76085	0.760267	0.759676	0.760052	0.760312	0.76051	0.760671	0.760734	0.760987	0.761186	0.761437	0.761606	0.761852	0.762113	0.762615	0.762615	0.762615	0.762615	0.762615
0.043392	0.043222	0.042986	0.042652	0.04245	0.042365	0.042288	0.042276	0.042073	0.041864	0.041578	0.041324	0.040992	0.040285	0.039094	0.039094	0.039094	0.039094	0.039094
0.037256	0.037157	0.036992	0.03675	0.03661	0.036571	0.036535	0.036541	0.036416	0.036276	0.036077	0.035892	0.035652	0.035053	0.034045	0.034045	0.034045	0.034045	0.034045
0.016923	0.016956	0.016952	0.016912	0.016899	0.016917	0.016928	0.016946	0.016919	0.01688	0.016818	0.016754	0.016672	0.016443	0.016063	0.016063	0.016063	0.016063	0.016063
0.011458	0.010595	0.009878	0.009315	0.008763	0.008359	0.007956	0.00768	0.007413	0.007299	0.00721	0.00714	0.007086	0.007051	0.00702	0.00702	0.00702	0.00702	0.00702
0.007445	0.006754	0.006178	0.005742	0.00532	0.005004	0.004692	0.004432	0.004179	0.004103	0.004044	0.003994	0.003966	0.003944	0.003924	0.003924	0.003924	0.003924	0.003924
0.005911	0.005347	0.004876	0.004519	0.004174	0.003915	0.003659	0.003445	0.003237	0.003173	0.003122	0.00308	0.003054	0.003034	0.003016	0.003016	0.003016	0.003016	0.003016
0.002176	0.002058	0.001957	0.001876	0.001799	0.001735	0.001671	0.001614	0.001561	0.001533	0.001508	0.001485	0.001465	0.001449	0.001434	0.001434	0.001434	0.001434	0.001434
0.010261	0.010171	0.010094	0.010026	0.009959	0.009899	0.009857	0.009823	0.009786	0.009754	0.009726	0.009704	0.009687	0.009675	0.009662	0.009662	0.009662	0.009662	0.009662
0.010738	0.011114	0.010545	0.010469	0.010394	0.010324	0.010266	0.01021	0.010152	0.010107	0.010069	0.010038	0.010032	0.010032	0.010031	0.010031	0.010031	0.010031	0.010031
0.008758	0.008661	0.008579	0.00851	0.008443	0.008382	0.00833	0.008282	0.008233	0.008194	0.008161	0.008134	0.008126	0.008124	0.008121	0.008121	0.008121	0.008121	0.008121
0.005994	0.005922	0.005861	0.005811	0.005769	0.005734	0.005705	0.005682	0.005662	0.005647	0.005635	0.005625	0.005616	0.00561	0.005603	0.005603	0.005603	0.005603	0.005603



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