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# **Sequoia Commerce Center**

## **AIR QUALITY IMPACT ANALYSIS**

### **CITY OF TORRANCE**

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## **LIST OF ABBREVIATED TERMS**

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| %                                | Percent                                                                        |
| °F                               | Degrees Fahrenheit                                                             |
| (1)                              | Reference                                                                      |
| µg/m <sup>3</sup>                | Microgram per Cubic Meter                                                      |
| <i>1993 CEQA Handbook</i>        | <i>SCAQMD's CEQA Air Quality Handbook (1993)</i>                               |
| <i>2024-2050 RTP/SCS</i>         | <i>2024-2050 Regional Transportation Plan/Sustainable Communities Strategy</i> |
| AB 2595                          | California Clean Air Act                                                       |
| ADA                              | Americans with Disabilities Act                                                |
| AQIA                             | Air Quality Impact Analysis                                                    |
| AQMP                             | Air Quality Management Plan                                                    |
| BACT                             | Best Available Control Technology                                              |
| BC                               | Black Carbon                                                                   |
| <i>Brief</i>                     | <i>Brief of Amicus Curiae by the SCAQMD in the Friant Ranch Case</i>           |
| C <sub>2</sub> Cl <sub>4</sub>   | Perchloroethylene                                                              |
| C <sub>4</sub> H <sub>6</sub>    | 1,3-butadiene                                                                  |
| C <sub>6</sub> H <sub>6</sub>    | Benzene                                                                        |
| C <sub>2</sub> H <sub>3</sub> Cl | Vinyl Chloride                                                                 |
| C <sub>2</sub> H <sub>4</sub> O  | Acetaldehyde                                                                   |
| CAA                              | Federal Clean Air Act                                                          |
| CAAQS                            | California Ambient Air Quality Standards                                       |
| CalEEMod                         | California Emissions Estimator Model                                           |
| CalEPA                           | California Environmental Protection Agency                                     |
| CALGreen                         | California Green Building Standards Code                                       |
| CAPCOA                           | California Air Pollution Control Officers Association                          |
| CARB                             | California Air Resources Board                                                 |
| CCR                              | California Code of Regulations                                                 |
| CEC                              | California Energy Commission                                                   |
| CEQA                             | California Environmental Quality Act                                           |
| <i>CEQA Guidelines</i>           | <i>CEQA Statute and Guidelines</i>                                             |
| CH <sub>2</sub> O                | Formaldehyde                                                                   |
| City                             | City of Torrance                                                               |
| CO                               | Carbon Monoxide                                                                |
| COH                              | Coefficient of Haze                                                            |
| COHb                             | Carboxyhemoglobin                                                              |

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| Cr(VI)                 | Chromium                                                        |
| CTP                    | Clean Truck Program                                             |
| DPM                    | Diesel Particulate Matter                                       |
| DRRP                   | Diesel Risk Reduction Plan                                      |
| EC                     | Elemental Carbon                                                |
| EIR                    | Environmental Impact Report                                     |
| EMFAC                  | EMissions FACtor Model                                          |
| EPA                    | Environmental Protection Agency                                 |
| ETW                    | Equivalent Test Weight                                          |
| GHG                    | Greenhouse Gas                                                  |
| GVWR                   | Gross Vehicle Weight Rating                                     |
| H <sub>2</sub> S       | Hydrogen Sulfide                                                |
| HDT                    | Heavy Duty Trucks                                               |
| HHDT                   | Heavy-Heavy-Duty Trucks                                         |
| HI                     | Hazard Index                                                    |
| hp                     | Horsepower                                                      |
| lbs                    | Pounds                                                          |
| lbs/day                | Pounds Per Day                                                  |
| LDA                    | Light Duty Auto                                                 |
| LDT1/LDT2              | Light-Duty Trucks                                               |
| LHDT1/LHDT2            | Light-Heavy-Duty Trucks                                         |
| LST                    | Localized Significance Threshold                                |
| <i>LST Methodology</i> | <i>Final Localized Significance Threshold Methodology</i>       |
| MATES                  | Multiple Air Toxics Exposure Study                              |
| MCY                    | Motorcycles                                                     |
| MDV                    | Medium-Duty Vehicles                                            |
| MHDT                   | Medium-Heavy-Duty Trucks                                        |
| MICR                   | Maximum Individual Cancer Risk                                  |
| MM                     | Mitigation Measures                                             |
| MWELO                  | California Department of Water Resources' Model Water Efficient |
| N <sub>2</sub>         | Nitrogen                                                        |
| N <sub>2</sub> O       | Nitrous Oxide                                                   |
| NAAQS                  | National Ambient Air Quality Standards                          |
| NO                     | Nitric Oxide                                                    |
| NO <sub>2</sub>        | Nitrogen Dioxide                                                |
| NO <sub>x</sub>        | Nitrogen Oxides                                                 |
| O <sub>2</sub>         | Oxygen                                                          |

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| O <sub>3</sub>            | Ozone                                              |
| O <sub>2</sub> Deficiency | Chronic Hypoxemia                                  |
| OBD-II                    | On-Board Diagnostic                                |
| ODC                       | Ozone Depleting Compounds                          |
| Pb                        | Lead                                               |
| PM <sub>10</sub>          | Particulate Matter 10 microns in diameter or less  |
| PM <sub>2.5</sub>         | Particulate Matter 2.5 microns in diameter or less |
| POLA                      | Port of Los Angeles                                |
| POLB                      | Port of Long Beach                                 |
| ppm                       | Parts Per Million                                  |
| Project                   | Sequoia Commerce Center                            |
| RECLAIM                   | Regional Clean Air Incentives Market               |
| RFG-2                     | Reformulated Gasoline Regulation                   |
| ROG                       | Reactive Organic Gases                             |
| SCAB                      | South Coast Air Basin                              |
| SCAG                      | Southern California Association of Governments     |
| SCAQMD                    | South Coast Air Quality Management District        |
| sf                        | Square Feet                                        |
| SIPs                      | State Implementation Plans                         |
| SO <sub>2</sub>           | Sulfur Dioxide                                     |
| SO <sub>4</sub>           | Sulfates                                           |
| SO <sub>x</sub>           | Sulfur Oxides                                      |
| SRA                       | Source Receptor Area                               |
| TAC                       | Toxic Air Contaminant                              |
| Title 24                  | California Building Code                           |
| TITLE I                   | Non-Attainment Provisions                          |
| TITLE II                  | Mobile Sources Provisions                          |
| UFP                       | Ultrafine Particles                                |
| VMT                       | Vehicle Miles Traveled                             |
| VOC                       | Volatile Organic Compounds                         |

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## EXECUTIVE SUMMARY

### ES.1 SUMMARY OF FINDINGS

The results of this *Sequoia Commerce Center Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines* (CEQA Guidelines) (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

**TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS**

| Analysis                         | Report Section | Significance Findings        |            |
|----------------------------------|----------------|------------------------------|------------|
|                                  |                | Unmitigated                  | Mitigated  |
| Regional Construction Emissions  | 3.4            | <i>Less Than Significant</i> | <i>n/a</i> |
| Localized Construction Emissions | 3.7            | <i>Less Than Significant</i> | <i>n/a</i> |
| Regional Operational Emissions   | 3.5            | <i>Less Than Significant</i> | <i>n/a</i> |
| Localized Operational Emissions  | 3.8            | <i>Less Than Significant</i> | <i>n/a</i> |
| CO “Hot Spot” Analysis           | 3.9            | <i>Less Than Significant</i> | <i>n/a</i> |
| Air Quality Management Plan      | 3.10           | <i>Less Than Significant</i> | <i>n/a</i> |
| Sensitive Receptors              | 3.11           | <i>Less Than Significant</i> | <i>n/a</i> |
| Odors                            | 3.12           | <i>Less Than Significant</i> | <i>n/a</i> |
| Cumulative Impacts               | 3.13           | <i>Less Than Significant</i> | <i>n/a</i> |

### ES.2 REGULATORY REQUIREMENTS

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality.

Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or

other forms of property, or can cause excessive soiling on any other parcel shall conform to the requirements of the South Coast Air Quality Management District (SCAQMD).

#### **SCAQMD RULES**

SCAQMD Rules that are currently applicable during construction activity for this Project are described below.

#### **SCAQMD RULE 402**

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

**Odor Emissions.** All uses shall be operated in a manner such that no offensive odor is perceptible at or beyond the property line of that use.

#### **SCAQMD RULE 403**

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities.

**Dust Control, Operations.** Any operation or activity that might cause the emission of any smoke, fly ash, dust, fumes, vapors, gases, or other forms of air pollution, which can cause damage to human health, vegetation, or other forms of property, or can cause excessive soiling on any other parcel, shall conform to the requirements of the South Coast Air Quality Management District.

#### **SCAQMD RULE 1113**

This rule serves to limit the Volatile Organic Compound (VOC) content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects.

#### **SCAQMD RULE 1301**

This rule is intended to provide that pre-construction review requirements to ensure that new or relocated facilities do not interfere with progress in attainment of the National Ambient Air Quality Standards (NAAQS), while future economic growth within the SCAQMD is not unnecessarily restricted. The specific air quality goal is to achieve no net increases from new or modified permitted sources of nonattainment air contaminants or their precursors. Rule 1301 also limits emission increases of ammonia, and Ozone Depleting Compounds (ODCs) from new, modified or relocated facilities by requiring the use of Best Available Control Technology (BACT).

#### **SCAQMD RULE 401**

A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any 1 hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the U.S. Bureau of Mines.

#### **SCAQMD RULE 2305**

The SCAQMD adopted Rule 2305, the Warehouse Indirect Source Rule, on May 7, 2021. Owners and operators associated with warehouses 100,000 square feet (sf) or larger are required to directly reduce NO<sub>x</sub> and PM emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities.

Although the Project would comply with the above regulatory requirements, it should be noted that emission reductions associated with Rules 402, 1301, 1401, and 2305 cannot be quantified in the California Emissions Estimator Model (CalEEMod) and are therefore not reflected in the emissions presented herein. Conversely, Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3) can be modeled in CalEEMod. As such, credit for Rule 403 and Rule 1113 have been taken in the analysis.

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# **1 INTRODUCTION**

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Sequoia Commerce Center (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

## **1.1 SITE LOCATION**

The proposed Project is located southeast corner of Van Ness Avenue and 190th Street at 19250/19320 Van Ness Avenue within the City of Torrance (Assessor's Parcel Numbers or APNs 7352-016-001, 7352-016-002, and 7352-016-003) as shown in Exhibit 1-A.

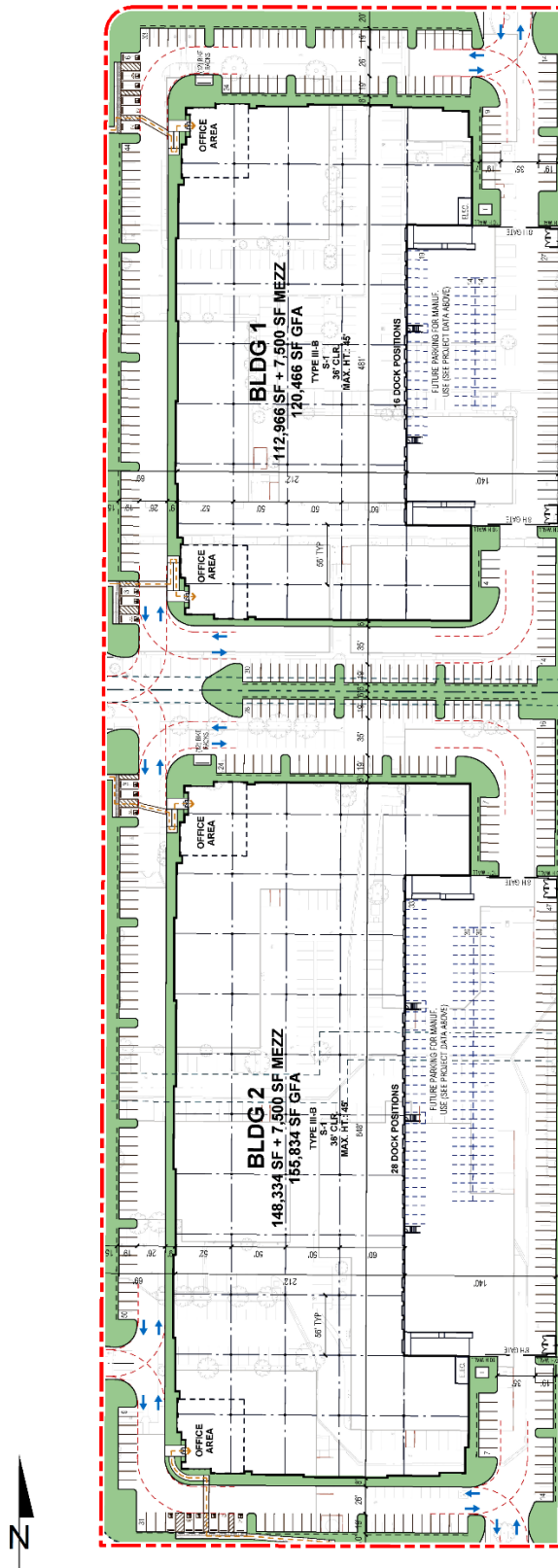
## **1.2 PROJECT DESCRIPTION**

The Project site is currently developed with 13 buildings totaling approximately 275,000 square feet of business park use. The proposed Project plans to develop two (2) new proposed industrial buildings: an approximately 120,466 square foot (SF) industrial building (Building 1) with 208 parking stalls and an approximately 155,834 SF industrial building (Building 2) with 236 parking stalls on an approximate 14.02-acre site. The preliminary site plan for the proposed Project is shown in Exhibit 1-B.

## 6



EXHIBIT 1-B: SITE PLAN





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## 2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

### 2.1 SOUTH COAST AIR BASIN (SCAB)

The Project site is located in the SCAB within the jurisdiction of SCAQMD (4). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and State air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bounded by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bounded by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

### 2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO<sub>2</sub>) to sulfates (SO<sub>4</sub>) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71% along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los

Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed “Santa Anas” each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the “Catalina Eddy,” a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO<sub>x</sub> and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

## **2.3 WIND PATTERNS AND PROJECT LOCATION**

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and

low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

## 2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (5).

**TABLE 2-1: CRITERIA POLLUTANTS**

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sources                                                                                                                          | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CO                 | CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O <sub>3</sub> ), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections. | Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating. | Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O <sub>2</sub> ) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O <sub>2</sub> transport and competing with O <sub>2</sub> to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O <sub>2</sub> supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O <sub>2</sub> deficiency) as seen at high altitudes. |



| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                               | Sources                                                                     | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SO <sub>2</sub>    | SO <sub>2</sub> is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO <sub>2</sub> oxidizes in the atmosphere, it forms SO <sub>4</sub> . Collectively, these pollutants are referred to as sulfur oxides (SO <sub>x</sub> ). | Coal or oil burning power plants and industries, refineries, diesel engines | <p>A few minutes of exposure to low levels of SO<sub>2</sub> can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO<sub>2</sub>. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO<sub>2</sub>.</p> <p>Animal studies suggest that despite SO<sub>2</sub> being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract.</p> <p>Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO<sub>2</sub> levels. In these studies, efforts to separate the effects of SO<sub>2</sub> from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.</p> |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sources                                                                                                                          | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NO <sub>x</sub>    | NO <sub>x</sub> consist of nitric oxide (NO), nitrogen dioxide (NO <sub>2</sub> ) and nitrous oxide (N <sub>2</sub> O) and are formed when nitrogen (N <sub>2</sub> ) combines with O <sub>2</sub> . Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO <sub>x</sub> is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO <sub>2</sub> is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of NO <sub>x</sub> compounds, NO <sub>2</sub> is the most abundant in the atmosphere. As ambient concentrations of NO <sub>2</sub> are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO <sub>2</sub> than those indicated by regional monitoring station. | Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating. | <p>Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO<sub>2</sub> at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO<sub>2</sub> in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups.</p> <p>In animals, exposure to levels of NO<sub>2</sub> considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O<sub>3</sub> exposure increases when animals are exposed to a combination of O<sub>3</sub> and NO<sub>2</sub>.</p> |
| O <sub>3</sub>     | O <sub>3</sub> is a highly reactive and unstable gas that is formed when VOCs and NO <sub>x</sub> , both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O <sub>3</sub> concentrations are generally highest during the summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Formed when reactive organic gases (ROG) and NO <sub>x</sub> react in the presence of sunlight. ROG sources include any source   | Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O <sub>3</sub> effects. Short-term exposure (lasting for a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Criteria Pollutant | Description                                                                                                                                                                                                                                           | Sources                                                                                                                                                           | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.                                                                                                                            | that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.                                             | <p>few hours) to O<sub>3</sub> at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O<sub>3</sub> levels are associated with increased school absences. In recent years, a correlation between elevated ambient O<sub>3</sub> levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and reside in communities with high O<sub>3</sub> levels.</p> <p>O<sub>3</sub> exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O<sub>3</sub> may be more toxic than exposure to O<sub>3</sub> alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.</p> |
| Particulate Matter | PM <sub>10</sub> : A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light | Sources of PM <sub>10</sub> include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO <sub>x</sub> , SO <sub>x</sub> , | A consistent correlation between elevated ambient fine particulate matter (PM <sub>10</sub> and PM <sub>2.5</sub> ) levels and an increase in mortality rates, respiratory infections, number and severity of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sources                                                                                                                                                                                                                                                                                                  | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <p>and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM<sub>10</sub> is considered a criteria air pollutant.</p> <p>PM<sub>2.5</sub>: A similar air pollutant to PM<sub>10</sub> consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO<sub>4</sub> formed from SO<sub>2</sub> release from power plants and industrial facilities and nitrates that are formed from NO<sub>x</sub> release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. PM<sub>2.5</sub> is a criteria air pollutant.</p> | <p>organics). Incomplete combustion of any fuel.</p> <p>PM<sub>2.5</sub> comes from fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO<sub>x</sub>, SO<sub>x</sub>, organics).</p> | <p>asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer.</p> <p>Daily fluctuations in PM<sub>2.5</sub> concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter.</p> <p>The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM<sub>10</sub> and PM<sub>2.5</sub>.</p> |
| VOC                | <p>VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products.</p>                                                                                      | <p>Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sources                                                                                                                                                          | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | form O <sub>3</sub> to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O <sub>3</sub> , which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.                                           | Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored. |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ROG                | Similar to VOC, ROG are also precursors in forming O <sub>3</sub> and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO <sub>x</sub> react in the presence of sunlight. ROG are a criteria pollutant since they are a precursor to O <sub>3</sub> , which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.                               | Sources similar to VOCs.                                                                                                                                         | Health effects similar to VOCs.                                                                                                                                                                                                                                                                                                                                                                                       |
| Lead (Pb)          | Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include | Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.                                                                                   | Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb 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 Pb levels are associated with increased blood pressure. |

| Criteria Pollutant | Description                                                                                                                                                                  | Sources                                                                                                | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of Pb emissions. |                                                                                                        | Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers. |
| Odor               | Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (6).                     | Odors can come from many sources including animals, human activities, industry, natures, and vehicles. | Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.                                             |

## 2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. NAAQS and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (7).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the State and federal standards. At the time of this AQIA, the most recent State and federal standards were updated by CARB on May 4, 2016, as presented in Table 2-2. The air quality in a region is considered to be in attainment by the State if the measured ambient air pollutant levels for O<sub>3</sub>, CO (except 8-hour Lake Tahoe), SO<sub>2</sub> (1 and 24 hour), NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> do not exceed standards. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, CARB has implemented a State Implementation Plan (SIP). The SIP outlines the measures that the State will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (8).

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

| Ambient Air Quality Standards                     |                         |                                    |                                                        |                                                         |                                   |                                                                     |
|---------------------------------------------------|-------------------------|------------------------------------|--------------------------------------------------------|---------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------|
| Pollutant                                         | Averaging Time          | California Standards <sup>1</sup>  |                                                        | National Standards <sup>2</sup>                         |                                   |                                                                     |
|                                                   |                         | Concentration <sup>3</sup>         | Method <sup>4</sup>                                    | Primary <sup>3,5</sup>                                  | Secondary <sup>3,6</sup>          | Method <sup>7</sup>                                                 |
| Ozone (O <sub>3</sub> ) <sup>8</sup>              | 1 Hour                  | 0.09 ppm (180 µg/m <sup>3</sup> )  | Ultraviolet Photometry                                 | —                                                       | Same as Primary Standard          | Ultraviolet Photometry                                              |
|                                                   | 8 Hour                  | 0.070 ppm (137 µg/m <sup>3</sup> ) |                                                        | 0.070 ppm (137 µg/m <sup>3</sup> )                      |                                   |                                                                     |
| Respirable Particulate Matter (PM10) <sup>9</sup> | 24 Hour                 | 50 µg/m <sup>3</sup>               | Gravimetric or Beta Attenuation                        | 150 µg/m <sup>3</sup>                                   | Same as Primary Standard          | Inertial Separation and Gravimetric Analysis                        |
|                                                   | Annual Arithmetic Mean  | 20 µg/m <sup>3</sup>               |                                                        | —                                                       |                                   |                                                                     |
| Fine Particulate Matter (PM2.5) <sup>9</sup>      | 24 Hour                 | —                                  | —                                                      | 35 µg/m <sup>3</sup>                                    | Same as Primary Standard          | Inertial Separation and Gravimetric Analysis                        |
|                                                   | Annual Arithmetic Mean  | 12 µg/m <sup>3</sup>               | Gravimetric or Beta Attenuation                        | 9 µg/m <sup>3</sup>                                     | 15 µg/m <sup>3</sup>              |                                                                     |
| Carbon Monoxide (CO)                              | 1 Hour                  | 20 ppm (23 mg/m <sup>3</sup> )     | Non-Dispersive Infrared Photometry (NDIR)              | 35 ppm (40 mg/m <sup>3</sup> )                          | —                                 | Non-Dispersive Infrared Photometry (NDIR)                           |
|                                                   | 8 Hour                  | 9.0 ppm (10 mg/m <sup>3</sup> )    |                                                        | 9 ppm (10 mg/m <sup>3</sup> )                           | —                                 |                                                                     |
|                                                   | 8 Hour (Lake Tahoe)     | 6 ppm (7 mg/m <sup>3</sup> )       |                                                        | —                                                       | —                                 |                                                                     |
| Nitrogen Dioxide (NO <sub>2</sub> ) <sup>10</sup> | 1 Hour                  | 0.18 ppm (339 µg/m <sup>3</sup> )  | Gas Phase Chemiluminescence                            | 100 ppb (188 µg/m <sup>3</sup> )                        | —                                 | Gas Phase Chemiluminescence                                         |
|                                                   | Annual Arithmetic Mean  | 0.030 ppm (57 µg/m <sup>3</sup> )  |                                                        | 0.053 ppm (100 µg/m <sup>3</sup> )                      | Same as Primary Standard          |                                                                     |
| Sulfur Dioxide (SO <sub>2</sub> ) <sup>11</sup>   | 1 Hour                  | 0.25 ppm (655 µg/m <sup>3</sup> )  | Ultraviolet Fluorescence                               | 75 ppb (196 µg/m <sup>3</sup> )                         | —                                 | Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method) |
|                                                   | 3 Hour                  | —                                  |                                                        | —                                                       | 0.5 ppm (1300 µg/m <sup>3</sup> ) |                                                                     |
|                                                   | 24 Hour                 | 0.04 ppm (105 µg/m <sup>3</sup> )  |                                                        | 0.14 ppm (for certain areas) <sup>11</sup>              | —                                 |                                                                     |
|                                                   | Annual Arithmetic Mean  | —                                  |                                                        | 0.030 ppm (for certain areas) <sup>11</sup>             | —                                 |                                                                     |
| Lead <sup>12,13</sup>                             | 30 Day Average          | 1.5 µg/m <sup>3</sup>              | Atomic Absorption                                      | —                                                       | —                                 | High Volume Sampler and Atomic Absorption                           |
|                                                   | Calendar Quarter        | —                                  |                                                        | 1.5 µg/m <sup>3</sup> (for certain areas) <sup>12</sup> | Same as Primary Standard          |                                                                     |
|                                                   | Rolling 3-Month Average | —                                  |                                                        | 0.15 µg/m <sup>3</sup>                                  |                                   |                                                                     |
| Visibility Reducing Particles <sup>14</sup>       | 8 Hour                  | See footnote 14                    | Beta Attenuation and Transmittance through Filter Tape | No National Standards                                   |                                   |                                                                     |
| Sulfates                                          | 24 Hour                 | 25 µg/m <sup>3</sup>               | Ion Chromatography                                     |                                                         |                                   |                                                                     |
| Hydrogen Sulfide                                  | 1 Hour                  | 0.03 ppm (42 µg/m <sup>3</sup> )   | Ultraviolet Fluorescence                               |                                                         |                                   |                                                                     |
| Vinyl Chloride <sup>12</sup>                      | 24 Hour                 | 0.01 ppm (26 µg/m <sup>3</sup> )   | Gas Chromatography                                     |                                                         |                                   |                                                                     |

See footnotes on next page ...

See footnotes on next page ...

For more information please call ARB-PIO at (916) 322-2990

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**TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)**

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM<sub>10</sub>, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150  $\mu\text{g}/\text{m}^3$  is equal to or less than one. For PM<sub>2.5</sub>, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM<sub>2.5</sub> primary standard was lowered from 15  $\mu\text{g}/\text{m}^3$  to 12.0  $\mu\text{g}/\text{m}^3$ . The existing national 24-hour PM<sub>2.5</sub> standards (primary and secondary) were retained at 35  $\mu\text{g}/\text{m}^3$ , as was the annual secondary standard of 15  $\mu\text{g}/\text{m}^3$ . The existing 24-hour PM<sub>10</sub> standards (primary and secondary) of 150  $\mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5  $\mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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## 2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O<sub>3</sub>, particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), NO<sub>2</sub>, and SO<sub>2</sub> which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 35 permanent monitoring stations and 2 single-pollutant source Pb air monitoring sites throughout the air district (9). On January 25, 2024, CARB adopted the proposed 2023 amendments to the state and national area designations See Table 2-3 for attainment designations for the SCAB (10). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

**TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB**

| Criteria Pollutant               | State Designation | Federal Designation       |
|----------------------------------|-------------------|---------------------------|
| O <sub>3</sub> – 1-hour standard | Nonattainment     | --                        |
| O <sub>3</sub> – 8-hour standard | Nonattainment     | Nonattainment             |
| PM <sub>10</sub>                 | Nonattainment     | Attainment                |
| PM <sub>2.5</sub>                | Nonattainment     | Nonattainment             |
| CO                               | Attainment        | Unclassifiable/Attainment |
| NO <sub>2</sub>                  | Attainment        | Unclassifiable/Attainment |
| SO <sub>2</sub>                  | Attainment        | Unclassifiable/Attainment |
| Pb <sup>1</sup>                  | Attainment        | Unclassifiable/Attainment |

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB

-- = no standard.

## 2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents about the air quality conditions. The Project site is located within SRA 3. Within SRA 3, the Southwest LA County monitoring station is located approximately 9.26 miles north of the Project site and only reports air quality data for PM<sub>10</sub>. Therefore, the following stations' air quality data is reported herein.

- SRA 3 (Southwest LA County - 9.26 miles north of the Project site) - PM<sub>10</sub> (2021)
- SRA 4 (I-710 Near Road – 6.61 miles east of the Project site) – NO<sub>2</sub> and PM<sub>2.5</sub>
- SRA 4 (South Coastal LA County 4 – 9.46 miles southeast of the Project site) – PM<sub>10</sub> (2022-2023)
- SRA 12 (South Central LA County – 7.07 miles northeast of the Project site) – O<sub>3</sub> and CO

<sup>1</sup> The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

Data from the I-710 Near Road, South Coastal LA County 4 and South-Central LA County monitoring stations were utilized only in instances where data was not available from the Southwest LA County monitoring station.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Development Site. Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> for 2021 through 2023 was obtained from the SCAQMD Air Quality Data Tables (11). Additionally, data for SO<sub>2</sub> has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO<sub>2</sub> concentrations.

**TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2021-2023**

| Pollutant                                                  | Standard                | Year  |       |       |
|------------------------------------------------------------|-------------------------|-------|-------|-------|
|                                                            |                         | 2021  | 2022  | 2023  |
| O <sub>3</sub>                                             |                         |       |       |       |
| Maximum Federal 1-Hour Concentration (ppm)                 |                         | 0.085 | 0.111 | 0.084 |
| Maximum Federal 8-Hour Concentration (ppm)                 |                         | 0.076 | 0.085 | 0.071 |
| Number of Days Exceeding State 1-Hour Standard             | > 0.09 ppm              | 0     | 1     | 0     |
| Number of Days Exceeding State/Federal 8-Hour Standard     | > 0.070 ppm             | 1     | 1     | 2     |
| CO                                                         |                         |       |       |       |
| Maximum Federal 1-Hour Concentration                       | > 35 ppm                | 4.3   | 3.4   | 3.2   |
| Maximum Federal 8-Hour Concentration                       | > 20 ppm                | 3.7   | 3.0   | 2.6   |
| NO <sub>2</sub>                                            |                         |       |       |       |
| Maximum Federal 1-Hour Concentration                       | > 0.100 ppm             | 0.092 | 0.095 | 0.071 |
| Annual Federal Standard Design Value                       |                         | 0.025 | 0.025 | 0.021 |
| PM <sub>10</sub>                                           |                         |       |       |       |
| Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> ) | > 150 µg/m <sup>3</sup> | 33    | 57    | 80    |
| Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )        |                         | 17.7  | 24.7  | 21.2  |
| Number of Days Exceeding Federal 24-Hour Standard          | > 150 µg/m <sup>3</sup> | 0     | 0     | 0     |
| Number of Days Exceeding State 24-Hour Standard            | > 50 µg/m <sup>3</sup>  | 0     | 2     | 3     |
| PM <sub>2.5</sub>                                          |                         |       |       |       |
| Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> ) | > 35 µg/m <sup>3</sup>  | 84.6  | 39.0  | 58.3  |
| Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )        | > 12 µg/m <sup>3</sup>  | 13.01 | 11.91 | 10.64 |
| Number of Days Exceeding Federal 24-Hour Standard          | > 35 µg/m <sup>3</sup>  | 7     | 1     | 1     |

ppm = Parts Per Million

µg/m<sup>3</sup> = Microgram per Cubic Meter

Source: Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> was obtained from SCAQMD Air Quality Data Tables.

## **2.8 REGULATORY BACKGROUND**

### **2.8.1 FEDERAL REGULATIONS**

The EPA is responsible for setting and enforcing the NAAQS for O<sub>3</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and Pb (12). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (13). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards would be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (14) (15). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, CO, PM<sub>2.5</sub>, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O<sub>3</sub> and to adopt a NAAQS for PM<sub>2.5</sub>. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO<sub>x</sub>. NO<sub>x</sub> is a collective term that includes all forms of NO<sub>x</sub> which are emitted as byproducts of the combustion process.

### **2.8.2 CALIFORNIA REGULATIONS**

#### **CARB**

CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO<sub>4</sub>, visibility, hydrogen sulfide (H<sub>2</sub>S), and vinyl chloride (C<sub>2</sub>H<sub>3</sub>Cl). However, at this time, H<sub>2</sub>S and C<sub>2</sub>H<sub>3</sub>Cl are not measured at any monitoring stations in the SCAB

because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (16) (12).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g., motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROG<sub>s</sub>, NO<sub>x</sub>, CO and PM<sub>10</sub>. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

#### **TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS**

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted 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 efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that became effective on January 1, 2023. The CEC anticipates that the 2022 energy code will provide \$1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (17). The Project would be required to comply with the applicable standards in place at the time building permit document submittals are made. These require, among other items (18):

## NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty electric vehicle supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
  - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
  - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
  - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).

- Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

### 2.8.3 AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (19). AQMPs are updated regularly to ensure an effective reduction in emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.10.

## 2.9 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists of is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB, such as is occurring here. Industrial emission sources

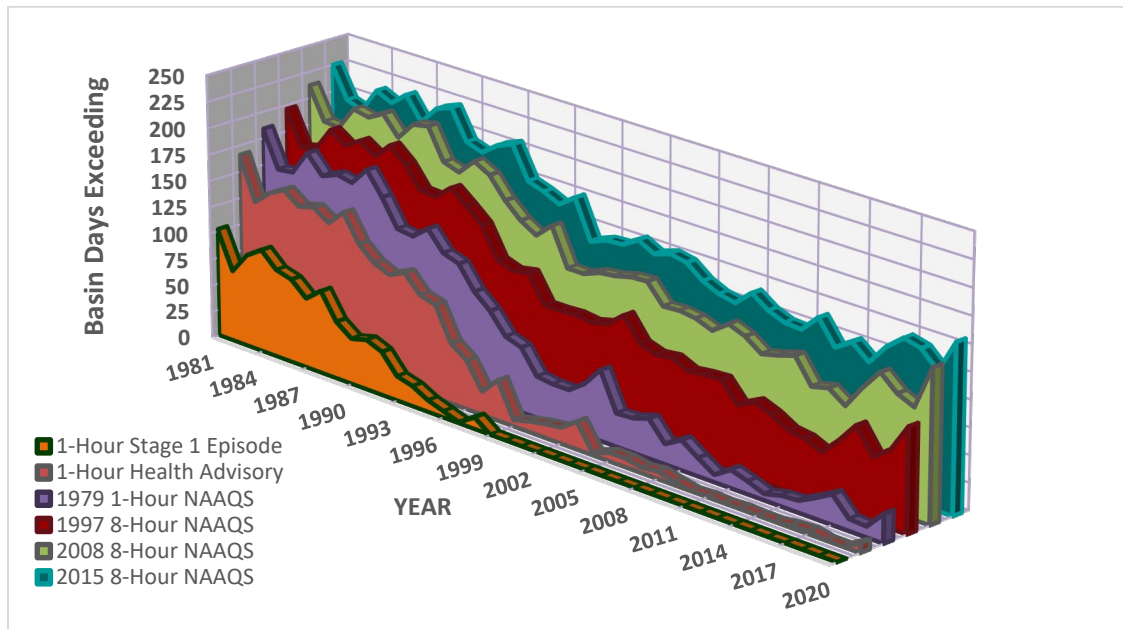


have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, “the remarkable historical improvement in air quality since the 1970s is the direct result of Southern California’s comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs” (20).

Emissions of O<sub>3</sub>, NO<sub>x</sub>, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (21). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO<sub>x</sub> and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO<sub>x</sub> emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O<sub>3</sub> contour maps show that the number of days exceeding the 8-hour NAAQS has generally decreased between 1980 and 2020. For 2020, there was an overall decrease in exceedance days compared with the 1980 period. However, as shown in Table 2-5, O<sub>3</sub> levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding, O<sub>3</sub> levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70s (22).

**TABLE 2-5: SCAB O<sub>3</sub> TREND**



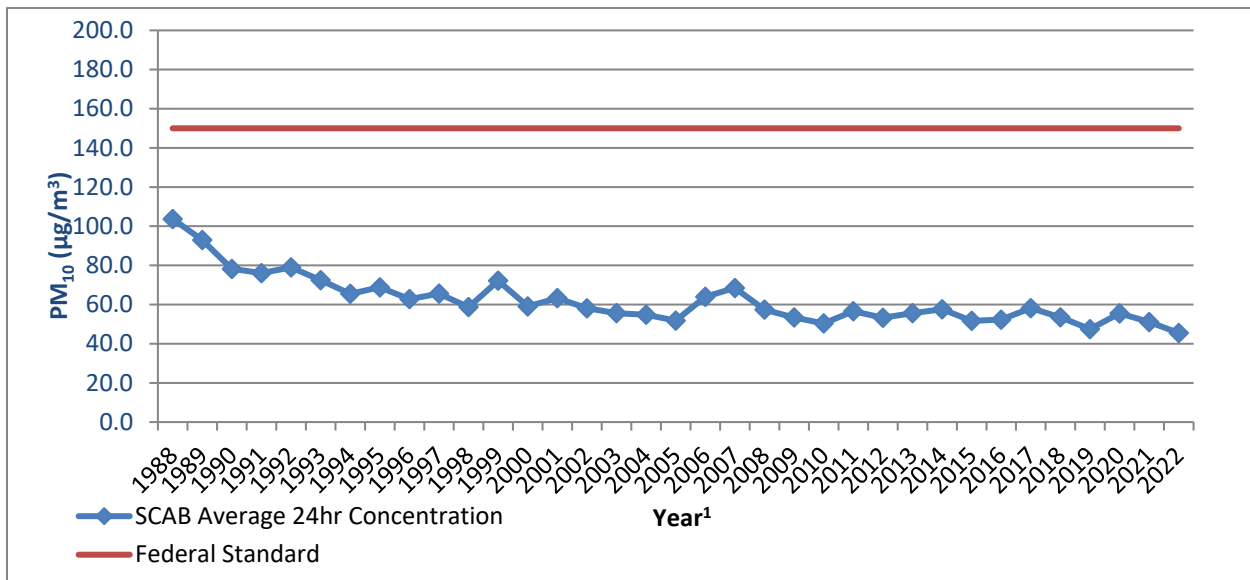
Source: 2020 SCAQMD, Historical O<sub>3</sub> Air Quality Trends (1976-2020)



The overall trends of PM<sub>10</sub> and PM<sub>2.5</sub> levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM<sub>10</sub> have remained somewhat constant in the SCAB and direct emissions of PM<sub>2.5</sub> have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction, and other sources) contribute the greatest amount of direct particulate matter emissions.

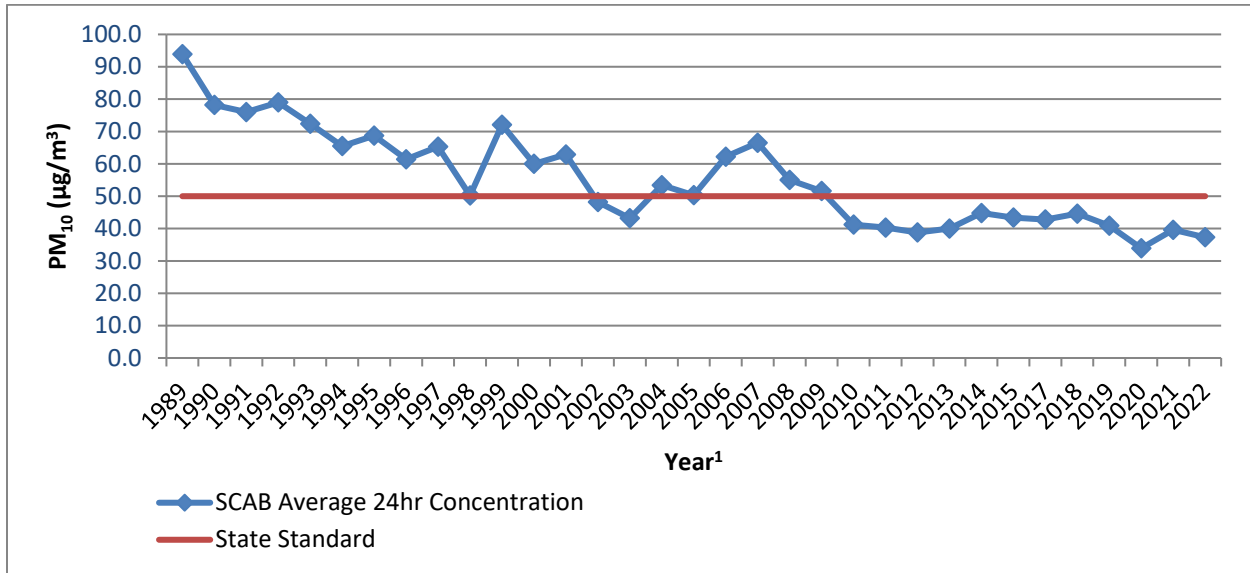
As with other pollutants, the most recent PM<sub>10</sub> statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available (1988-2022), the 24-hour national annual average concentration for PM<sub>10</sub> decreased by approximately 56%, from 103.7 microgram per cubic meter ( $\mu\text{g}/\text{m}^3$ ) in 1988 to 45.5  $\mu\text{g}/\text{m}^3$  in 2022 (23). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations would exceed the threshold. The 24-hour state annual average for emissions for PM<sub>10</sub>, have decreased by approximately 64%, from 93.9  $\mu\text{g}/\text{m}^3$  in 1989 to 37.3  $\mu\text{g}/\text{m}^3$  in 2022 (23). Although data in the late 1990s show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM<sub>10</sub> standards has also shown an overall drop.

**TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM<sub>10</sub> TREND (BASED ON FEDERAL STANDARD)<sup>1</sup>**



Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1988-2022)

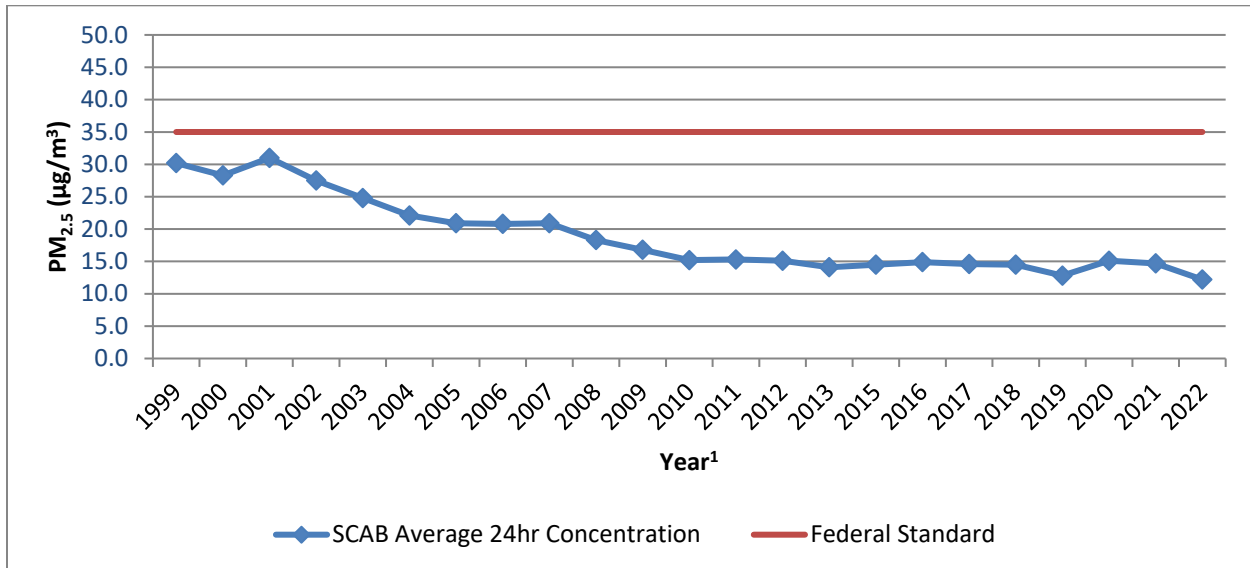
<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

**TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM<sub>10</sub> TREND (BASED ON STATE STANDARD)<sup>1</sup>**

Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1989-2022)

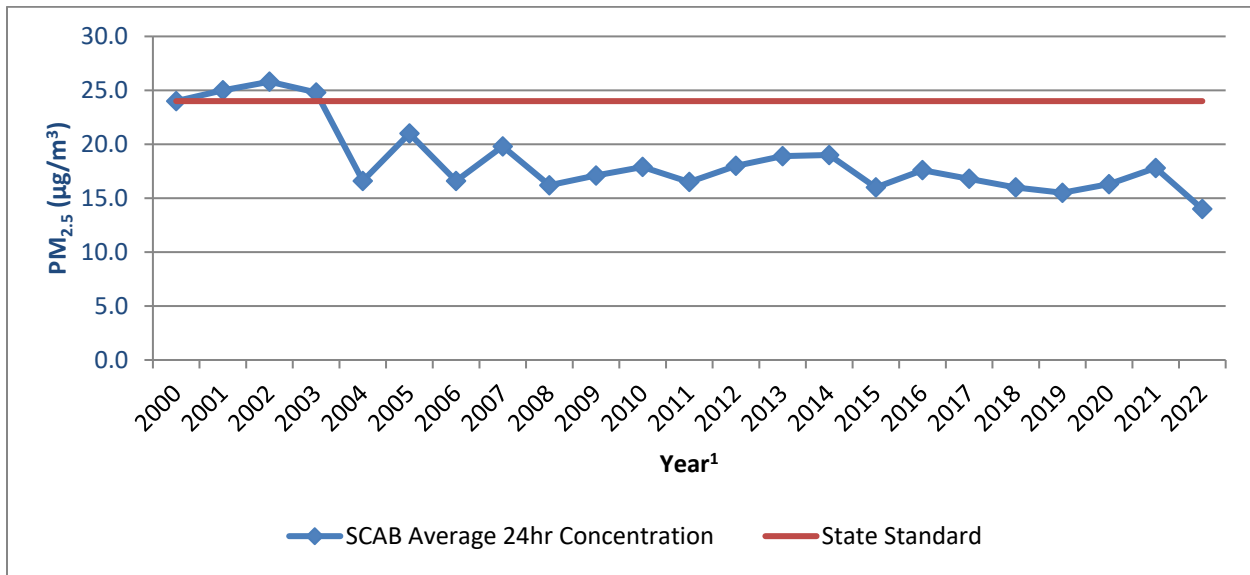
<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

Tables 2-8 and 2-9 show the most recent 24-hour average and annual PM<sub>2.5</sub> concentrations in the SCAB. Overall, the national and state annual average concentrations have decreased by almost 60% and 42% respectively (23). It should be noted that the SCAB is currently designated as nonattainment for the state and federal PM<sub>2.5</sub> standards.

**TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION PM<sub>2.5</sub> TREND (BASED ON FEDERAL STANDARD)<sup>1</sup>**

Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2022)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

**TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION PM<sub>2.5</sub> TREND (BASED ON STATE STANDARD)<sup>1</sup>**

Source: 2023 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2022)

<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

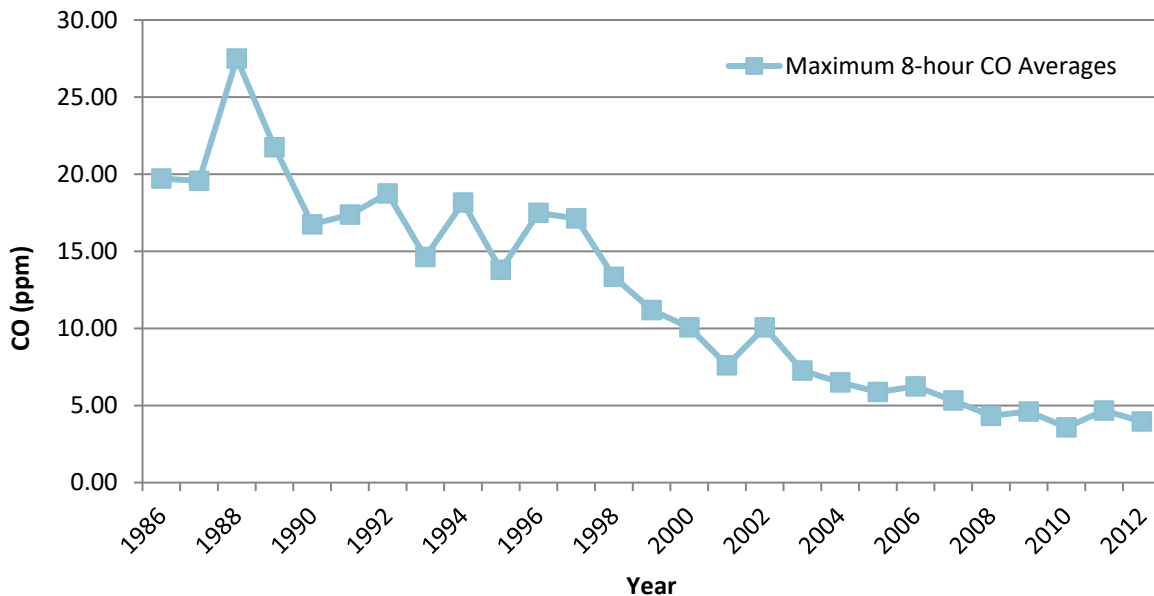
While the 2012 AQMP PM<sub>10</sub> attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured PM<sub>2.5</sub>.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of PM<sub>2.5</sub>-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the PM<sub>2.5</sub> increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour PM<sub>2.5</sub> standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019. As of March 14, 2019, the EPA approved portions of a SIP revision submitted by California to address CAA requirements for the 2006 24-hour PM<sub>2.5</sub> NAAQS in the Los Angeles-SCAB Serious PM<sub>2.5</sub> nonattainment area. The EPA also approved 2017 and 2019 motor vehicle emissions budgets for transportation conformity purposes and inter-pollutant trading ratios for use in transportation conformity analyses (24).

In December 2022, the SCAQMD released the Final 2022 AQMP. The 2022 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (25). Similar to the 2016 AQMP, the 2022 AQMP incorporates scientific and technological information and planning assumptions, including the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS) and updated emission inventory methodologies for various source categories (26).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (23). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration from 1986 to 2012. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

**TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND<sup>1</sup>**



Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)

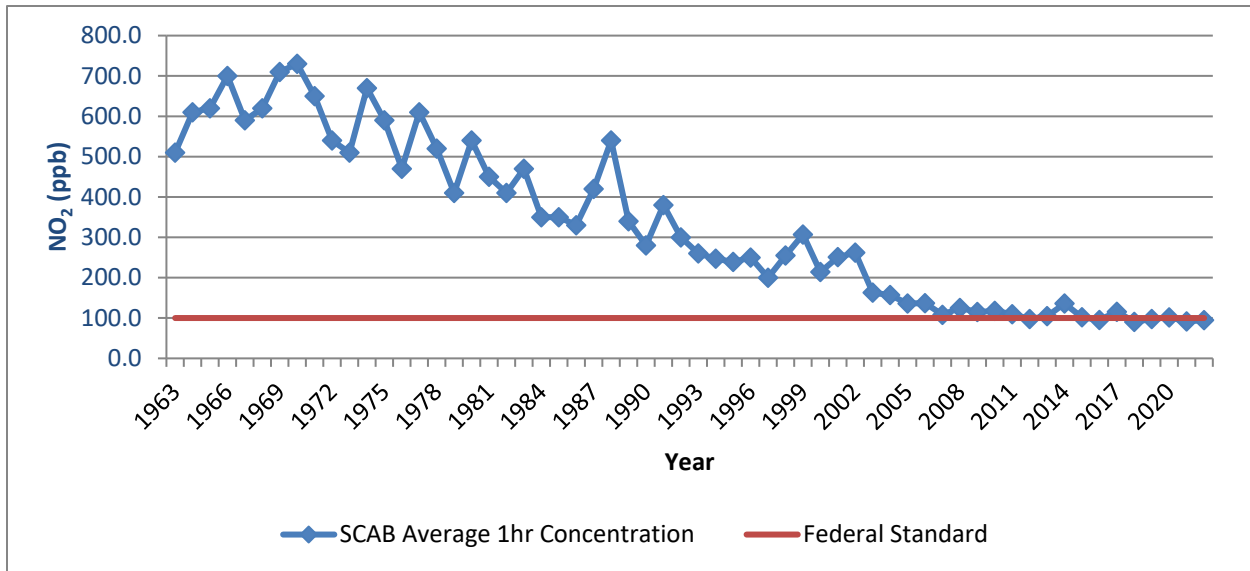
<sup>1</sup> The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures recommended in the SCAQMD's *CEQA Air Quality Handbook (1993)* (1993 *CEQA Handbook*) (27). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the SCAQMD's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

The most recent NO<sub>2</sub> data for the SCAB is shown in Tables 2-11 and 2-12 (23). Over the last 50 years, NO<sub>2</sub> values have decreased significantly; the peak 1-hour national and state averages for 2022 is approximately 81% lower than what it was during 1963. The SCAB attained the State 1-hour NO<sub>2</sub> standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 ppm was adopted by CARB in February 2007 (28). The new standard is just barely exceeded in the SCAB. NO<sub>2</sub> is formed from NO<sub>x</sub> emissions, which also contribute to O<sub>3</sub>. As a result, the majority of the future emission control measures would be implemented as part of

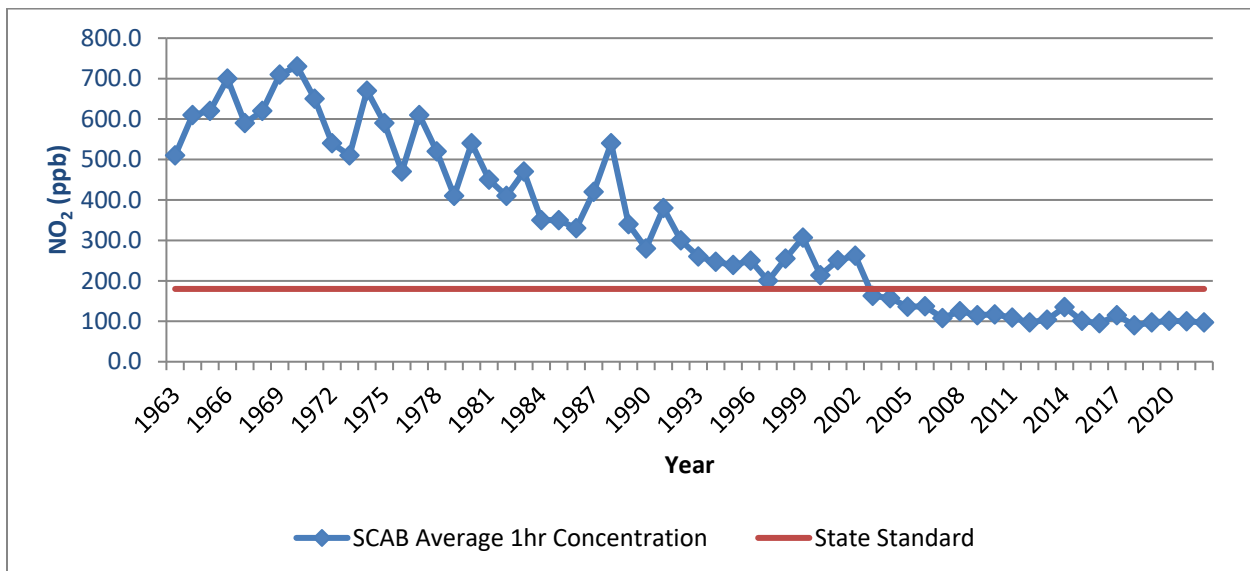
the overall O<sub>3</sub> control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO<sub>x</sub> emissions. These measures are expected to bring the SCAB into attainment of the state annual average standard.

**TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO<sub>2</sub> TREND (BASED ON FEDERAL STANDARD)**



Source: 2023 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2022)

**TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO<sub>2</sub> TREND (BASED ON STATE STANDARD)**



Source: 2023 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2022)

### 2.9.1 TOXIC AIR CONTAMINANTS (TAC) TRENDS

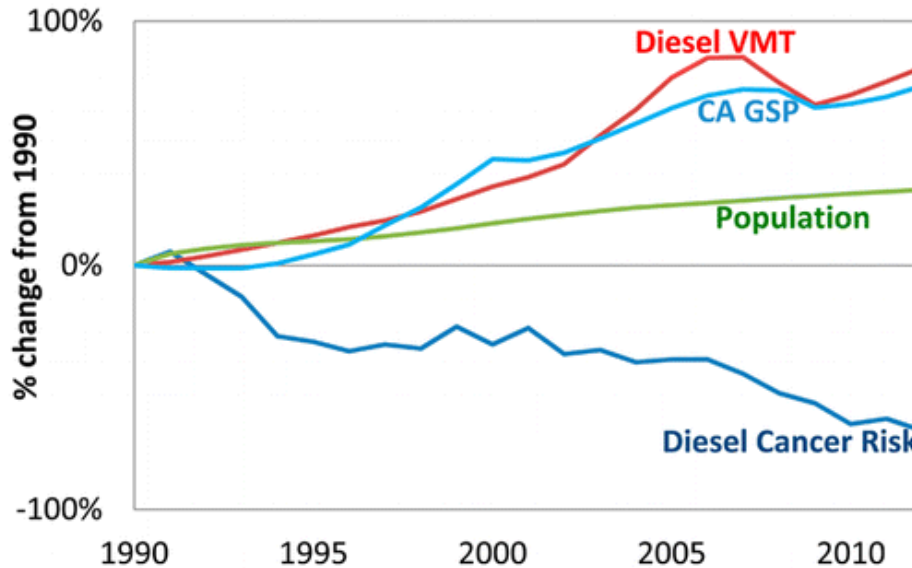
In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (29) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene ( $C_6H_6$ ), and 1,3-butadiene ( $C_4H_6$ ); those that are derived from stationary sources: perchloroethylene ( $C_2Cl_4$ ) and hexavalent chromium ( $Cr(VI)$ ); and those derived from photochemical reactions of emitted VOCs: formaldehyde ( $CH_2O$ ) and acetaldehyde ( $C_2H_4O$ )<sup>2</sup>. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

#### MOBILE SOURCE TACS

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase "Check Engine" or "Service Engine Soon." The system would also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. CARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 pounds (lbs). CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (29).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15 ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, CARB expects a DPM decline of 71% for 2000-2020.

<sup>2</sup> It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

**EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND****California Population, Gross State Product (GSP),  
Diesel Cancer Risk, Diesel Vehicle-Miles-Traveled (VMT)**

Source: 2020 CARB

**DIESEL REGULATIONS**

CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, CARB Drayage Truck Regulation (30), CARB statewide On-road Truck and Bus Regulation (31), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (32). In other words, older more polluting trucks would be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, would dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

**CANCER RISK TRENDS**

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study called the Multiple Air Toxics Exposure Study (MATES). DPM accounts for more than 70% of the cancer risk.

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements were conducted at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V also included measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (33). The draft report for the MATES V study was published in late May and the comment submission deadline on June 7, 2021. In addition to new measurements and updated modeling results, several key updates were implemented in MATES V. First, MATES V estimates cancer risks by taking into account multiple exposure pathways, which includes inhalation and non-inhalation pathways. This approach is consistent with how cancer risks are estimated in South Coast AQMD's programs such as permitting, Air Toxics Hot Spots (AB2588), and CEQA. Previous MATES studies quantified the cancer risks based on the inhalation pathway only. Second, along with cancer risk estimates, MATES V includes information on the chronic non-cancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic non-cancer risks from MATES II through IV measurements have been re-examined using current Office of Environmental Health Hazard Assessment (OEHHA) and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time (34).

MATES-V calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-V has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. The Project is located within a quadrant of the geographic grid of the MATES-V model which predicted a cancer risk of 523 in one million for the area containing the Project site. DPM is included in this cancer risk along with all other TAC sources. As in previous MATES iterations, diesel PM is the largest contributor to overall air toxics cancer risk. However, the average levels of diesel PM in MATES V are 53% lower at the 10 monitoring sites compared to MATES IV. Cumulative Project generated TACs are limited to DPM.



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### 3 PROJECT AIR QUALITY IMPACT

#### 3.1 INTRODUCTION

This study quantifies air quality emissions generated by construction and operation of the Project and addresses whether the Project conflicts with implementation of the SCAQMD's AQMP and Lead Agency planning regulations. The analysis of Project-generated air emissions determines whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is in non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine whether the Project would expose sensitive receptors to substantial pollutant concentrations and the impacts of odors. The significance of these potential impacts is described in the following sections.

#### 3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *State CEQA Guidelines* (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (35):

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

The SCAQMD has developed regional and localized significance thresholds for criteria pollutants, as summarized at Table 3-1 (36). The SCAQMD's *CEQA Air Quality Significance Thresholds* (March 2023) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

**TABLE 3-1: REGIONAL AND LOCALIZED EMISSIONS SIGNIFICANCE THRESHOLDS**

| Pollutant                        | Construction | Operations  |
|----------------------------------|--------------|-------------|
| Regional Significance Thresholds |              |             |
| NO <sub>x</sub>                  | 100 lbs/day  | 55 lbs/day  |
| VOC                              | 75 lbs/day   | 55 lbs/day  |
| PM <sub>10</sub>                 | 150 lbs/day  | 150 lbs/day |
| PM <sub>2.5</sub>                | 55 lbs/day   | 55 lbs/day  |
| SO <sub>x</sub>                  | 150 lbs/day  | 150 lbs/day |
| CO                               | 550 lbs/day  | 550 lbs/day |

| Pollutant                         | Construction           | Operations            |
|-----------------------------------|------------------------|-----------------------|
| Pb                                | 3 lbs/day              | 3 lbs/day             |
| Localized Significance Thresholds |                        |                       |
| NO <sub>x</sub>                   | 0.18 ppm               | 0.18 ppm              |
| CO (1-hour average)               | 20 ppm                 | 20 ppm                |
| CO (8-hour average)               | 9 ppm                  | 9 ppm                 |
| PM <sub>10</sub>                  | 10.4 µg/m <sup>3</sup> | 2.5 µg/m <sup>3</sup> |
| PM <sub>2.5</sub>                 | 10.4 µg/m <sup>3</sup> | 2.5 µg/m <sup>3</sup> |

lbs/day = Pounds Per Day

ppm = Parts Per Million

µg/m<sup>3</sup> = Micrograms Per Cubic Meter

### 3.3 MODELS EMPLOYED TO ANALYZE AIR QUALITY

#### 3.3.1 CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMod)

Land uses such as the Project affect air quality through construction-source and operational-source emissions. The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released CalEEMod 2022 in May 2022. CalEEMod periodically releases updates, as such the latest version available at the time of this report has been utilized in this analysis. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs (37). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model run for both construction and operational activity for the proposed Project is provided in Appendix 3.1.

#### 3.3.2 EMISSIONS FROM EXISTING USES ON-SITE

The Project site is currently developed with 13 buildings totaling approximately 275,000 square feet of business park use. The operational air quality emissions derive primarily from vehicle trips generated by the existing Project. Trip characteristics available from the *Sequoia Commerce Center Trip Generation Assessment* were utilized in this analysis (38).

The estimated operation-source emissions from the existing development are summarized on Table 3-2. Existing emissions have been calculated based on CalEEMod defaults and the trip generation data for the existing use. Detailed operation model outputs for the existing use are presented in Appendix 3.2.

**TABLE 3-2: EMISSIONS FROM EXISTING DEVELOPMENT**

| Source                               | Emissions (lbs/day) |                 |              |                 |                  |                   |
|--------------------------------------|---------------------|-----------------|--------------|-----------------|------------------|-------------------|
|                                      | VOC                 | NO <sub>x</sub> | CO           | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Summer                               |                     |                 |              |                 |                  |                   |
| Mobile Source                        | 4.26                | 5.78            | 44.01        | 0.12            | 9.81             | 2.58              |
| Area Source                          | 8.60                | 0.10            | 11.96        | 0.00            | 0.02             | 0.02              |
| Energy Source                        | 0.08                | 1.42            | 1.20         | 0.01            | 0.11             | 0.11              |
| <b>Total Maximum Daily Emissions</b> | <b>12.93</b>        | <b>7.30</b>     | <b>57.16</b> | <b>0.13</b>     | <b>9.94</b>      | <b>2.70</b>       |
| Winter                               |                     |                 |              |                 |                  |                   |
| Mobile Source                        | 4.23                | 6.23            | 40.26        | 0.11            | 9.81             | 2.58              |
| Area Source                          | 6.64                | 0.00            | 0.00         | 0.00            | 0.00             | 0.00              |
| Energy Source                        | 0.08                | 1.42            | 1.20         | 0.01            | 0.11             | 0.11              |
| <b>Total Maximum Daily Emissions</b> | <b>10.95</b>        | <b>7.66</b>     | <b>41.46</b> | <b>0.12</b>     | <b>9.92</b>      | <b>2.69</b>       |

Source: CalEEMod operational-source emissions for the existing uses are presented in Appendix 3.2.

### 3.4 PROJECT CONSTRUCTION EMISSIONS

#### 3.4.1 CONSTRUCTION ACTIVITIES

Construction activities associated with the Project will result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

#### DEMOLITION ACTIVITIES

As previously discussed, the Project site is currently developed with 13 buildings totaling approximately 275,000 square feet of business park use which would be demolished. It is estimated that the demolished material will be hauled off-site and since the exact location of where the demolished material is not known at this time, a 20-mile distance is utilized consistent with CalEEMod defaults.

#### GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive

emissions.” Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. Based on information provided by the project team, the Project would not require import/export of soil and a balanced site is expected earthwork activities.

#### OFF-SITE PROJECT SITE UTILITY AND INFRASTRUCTURE IMPROVEMENTS

To support the Project development, off-site utility and infrastructure improvements are anticipated on the immediately surrounding roadways. It is expected that the off-site construction activities would not take place at one location for the entire duration of construction. Impacts associated with these activities are not expected to exceed the emissions identified for Project-related construction activities generally since the off-site construction areas would have physical constraints such as, roadway travel lanes, traffic signals, and sidewalks. The physical constraints would limit the amount of construction equipment that could be used, and any off-site and utility infrastructure construction would not use equipment totals that would exceed the equipment totals on Table 3-4. On the basis of the previous discussion, no impacts beyond what has already been identified in this report are expected to occur.

#### ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers, hauling, and vendors commuting to and from the site. The number of workers, hauling, and vendor trips are presented below in Table 3-2. It should be noted that for Vendor Trips specifically, CalEEMod only assigns Vendor Trips to the Building Construction phase. Vendor trips would likely occur during all phases of construction. As such, the CalEEMod defaults for Vendor Trips have been adjusted based on a ratio of the total vendor trips to the number of days of each subphase of activity. Additionally, because paving and architectural coating activities overlap with building construction, the vendor trips assigned to building construction activities are assumed to be the same trips used to cover paving and architectural coating.

**TABLE 3-2: CONSTRUCTION TRIP ASSUMPTIONS**

| Construction Activity | Worker Trips Per Day | Vendor Trips Per Day | Hauling Trips Per Day |
|-----------------------|----------------------|----------------------|-----------------------|
| Demolition            | 15                   | 4                    | 151                   |
| Site Preparation      | 18                   | 2                    | 0                     |
| Grading               | 20                   | 5                    | 0                     |
| Building Construction | 116                  | 34                   | 0                     |
| Paving                | 15                   | 0                    | 0                     |
| Architectural Coating | 23                   | 0                    | 0                     |

#### 3.4.2 CONSTRUCTION DURATION

Construction is anticipated to begin in May 2027 and will last through April 2028. The construction schedule utilized in the analysis, shown in Table 3-3, represents a “conservative”

analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent<sup>3</sup>. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1).

**TABLE 3-3: CONSTRUCTION DURATION**

| Construction Activity | Start Date | End Date  | Days |
|-----------------------|------------|-----------|------|
| Demolition            | 5/3/2027   | 5/31/2027 | 21   |
| Site Preparation      | 6/1/2027   | 6/15/2027 | 11   |
| Grading               | 6/16/2027  | 7/28/2027 | 31   |
| Building Construction | 7/29/2027  | 4/28/2028 | 197  |
| Paving                | 4/3/2028   | 4/28/2028 | 20   |
| Architectural Coating | 3/20/2028  | 4/28/2028 | 30   |

### 3.4.3 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 3-4 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

**TABLE 3-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS**

| Construction Activity | Equipment                | Amount | Hours Per Day |
|-----------------------|--------------------------|--------|---------------|
| Demolition            | Rubber Tired Dozers      | 2      | 8             |
|                       | Excavators               | 3      | 8             |
|                       | Concrete/Industrial Saws | 1      | 8             |
| Site Preparation      | Rubber Tired Dozers      | 3      | 8             |
|                       | Crawler Tractors         | 4      | 8             |
| Grading               | Graders                  | 1      | 8             |
|                       | Excavators               | 2      | 8             |
|                       | Scrapers                 | 2      | 8             |
|                       | Rubber Tired Dozers      | 1      | 8             |
|                       | Crawler Tractors         | 2      | 8             |

<sup>3</sup> As shown in the CalEEMod User's Guide Version 2022, Appendix G "Table G-11. Statewide Average Annual Offroad Equipment Emission Factors" 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.

| Construction Activity | Equipment                 | Amount | Hours Per Day |
|-----------------------|---------------------------|--------|---------------|
| Building Construction | Forklifts                 | 3      | 8             |
|                       | Generator Sets            | 1      | 8             |
|                       | Cranes                    | 1      | 8             |
|                       | Welders                   | 1      | 8             |
|                       | Tractors/Loaders/Backhoes | 3      | 8             |
| Paving                | Pavers                    | 2      | 8             |
|                       | Paving Equipment          | 2      | 8             |
|                       | Rollers                   | 2      | 8             |
| Architectural Coating | Air Compressors           | 1      | 8             |

<sup>1</sup> In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

### 3.4.4 CONSTRUCTION EMISSIONS SUMMARY

#### IMPACTS WITHOUT MITIGATION

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions without mitigation are summarized on Table 3-5. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

**TABLE 3-5: OVERALL CONSTRUCTION EMISSIONS SUMMARY – WITHOUT MITIGATION**

| Year                           | Emissions (lbs/day) <sup>1</sup> |                 |              |                 |                  |                   |
|--------------------------------|----------------------------------|-----------------|--------------|-----------------|------------------|-------------------|
|                                | VOC                              | NO <sub>x</sub> | CO           | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Summer                         |                                  |                 |              |                 |                  |                   |
| 2027                           | 3.71                             | 32.87           | 31.46        | 0.10            | 7.53             | 4.24              |
| 2028                           | 49.25                            | 18.96           | 34.65        | 0.05            | 2.92             | 1.11              |
| Winter                         |                                  |                 |              |                 |                  |                   |
| 2027                           | 1.55                             | 11.84           | 20.49        | 0.03            | 2.18             | 0.78              |
| 2028                           | 47.51                            | 12.39           | 22.73        | 0.04            | 2.46             | 0.83              |
| <b>Maximum Daily Emissions</b> | <b>49.25</b>                     | <b>32.87</b>    | <b>34.65</b> | <b>0.10</b>     | <b>7.53</b>      | <b>4.24</b>       |
| SCAQMD Regional Threshold      | 75                               | 100             | 550          | 150             | 150              | 55                |
| <b>Threshold Exceeded?</b>     | <b>NO</b>                        | <b>NO</b>       | <b>NO</b>    | <b>NO</b>       | <b>NO</b>        | <b>NO</b>         |

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 3.1.

### 3.5 PROJECT OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of VOCs, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Operational emissions are expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- Stationary Emissions
- On-site Cargo Equipment Emissions

#### 3.5.1 AREA SOURCE EMISSIONS

##### ARCHITECTURAL COATINGS

Over a period of time, the buildings that are part of this Project will require maintenance and will therefore produce emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings. The emissions associated with architectural coatings were calculated using CalEEMod.

##### CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

##### LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. It should be noted that on October 9, 2021, Governor Gavin Newsom signed AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by January 1, 2024, which is now effective. For purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

#### 3.5.2 ENERGY SOURCE EMISSIONS

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are generally excluded from the evaluation of significance. Electricity usage associated with the Project was calculated by



CalEEMod using default parameters. Natural gas associated with the HVAC system for the office portion of the Project was calculated by CalEEMod using default parameters. Based on information provided by the Project applicant, the industrial portion of the proposed Project would not utilize natural gas.

### 3.5.3 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Sequoia Commerce Center Trip Generation Assessment* were utilized in this analysis (38). Per the *Sequoia Commerce Center Trip Generation Assessment* the proposed Project expected to generate approximately 1,022 total trips per day which include 878 passenger car trips per day and 144 truck trips per day.

#### APPROACH FOR ANALYSIS OF THE PROJECT

To determine emissions from passenger car vehicles, the CalEEMod defaults were utilized for trip length and trip purpose for the proposed industrial land uses.

This analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1<sup>4</sup> & LDT2<sup>5</sup>), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. To account for emissions generated by passenger cars, the following fleet mix was utilized in this analysis:

**TABLE 3-6: PASSENGER CAR FLEET MIX**

| Land Use      | % Vehicle Type |      |       |       |      |
|---------------|----------------|------|-------|-------|------|
|               | LDA            | LDT1 | LDT2  | MDV   | MCY  |
| Manufacturing | 51.84          | 4.43 | 25.95 | 15.41 | 2.37 |
| Warehousing   |                |      |       |       |      |

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated the SCAQMD recommended truck trip length of 15.3 miles for 2-axle (LHDT1, LHDT2) trucks, 14.2 miles 3-axle (MHDT) trucks and 40 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from the *Sequoia Commerce Center Trip Generation Assessment*. The trip length function for the proposed industrial building uses has been calculated to 30.29 miles for the manufacturing use and 30.66 for the warehousing use, with an assumption of 100% primary trips. This trip length assumption is higher than the CalEEMod defaults for trucks.

<sup>4</sup> Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

<sup>5</sup> Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

In order to be consistent with the *Sequoia Commerce Center Trip Generation Assessment*, trucks are broken down by truck type. The truck fleet mix is estimated by apportioning the trip rates for each truck type based on information provided in the *Sequoia Commerce Center Trip Generation Assessment*. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1<sup>6</sup> & LHDT2<sup>7</sup>)/2-axle, Medium-Heavy-Duty Trucks (MHD)/3-axle, and Heavy-Heavy-Duty Trucks (HHD)/4+-axle. To account for emissions generated by trucks, the following fleet mix was utilized in this analysis:

**TABLE 3-7: TRUCK FLEET MIX**

| Land Use      | % Vehicle Type |       |       |       |
|---------------|----------------|-------|-------|-------|
|               | LHDT1          | LHDT2 | MHDT  | HHDT  |
| Manufacturing | 13.23          | 3.44  | 21.43 | 61.90 |
| Warehousing   | 13.23          | 3.44  | 20.00 | 63.33 |

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

#### **FUGITIVE DUST RELATED TO VEHICULAR TRAVEL**

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of break and tire wear particulates. The emissions estimate for travel on paved roads were calculated using CalEEMod.

#### **3.5.4 STATIONARY SOURCE EMISSIONS**

The proposed Project was conservatively assumed to include installation of two 300-horsepower diesel-powered fire pumps and two 700-horsepower diesel-powered emergency generators at the industrial buildings. The fire pumps and emergency generators were estimated to operate for up to 1 hour per day, 1 day per week for up to 50 hours per year for maintenance and testing purposes. Emissions associated with the stationary diesel-powered emergency fire pumps and emergency generators were calculated using CalEEMod.

#### **3.5.5 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS**

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this Project, all on-site equipment (cargo handling equipment, yard goats, forklifts) utilized for the operation of the proposed Project will be electric powered.

#### **3.5.6 OPERATIONAL EMISSIONS SUMMARY**

CalEEMod utilizes summer and winter EMFAC2021 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. As such, operational activities for summer and winter scenarios are presented in Table 3-9. Detailed operational model outputs are presented in Appendix 3.1. It should be noted that the existing

<sup>6</sup> Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

<sup>7</sup> Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

development emissions were subtracted from the Project operational emissions to determine the new emissions from the proposed Project. As shown in Table 3-8, operation of the Project would generate a net increase in all criteria pollutants except CO emissions. Notwithstanding, the Project operational activities would not exceed the numerical thresholds of significance established by the SCAQMD for emissions of any criteria pollutant. As such, operational impacts would be considered less-than-significant.

**TABLE 3-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS**

| Source                                     | Emissions (lbs/day) |                 |              |                 |                  |                   |
|--------------------------------------------|---------------------|-----------------|--------------|-----------------|------------------|-------------------|
|                                            | VOC                 | NO <sub>x</sub> | CO           | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Summer                                     |                     |                 |              |                 |                  |                   |
| Mobile Source                              | 2.91                | 12.93           | 31.07        | 0.17            | 10.25            | 2.79              |
| Area Source                                | 8.29                | 0.10            | 12.02        | 0.00            | 0.02             | 0.02              |
| Energy Source                              | 0.01                | 0.20            | 0.17         | 0.00            | 0.02             | 0.02              |
| Stationary Source                          | 3.28                | 9.17            | 8.37         | 0.02            | 0.48             | 0.48              |
| <b>Total Maximum Daily Emissions</b>       | <b>14.50</b>        | <b>22.41</b>    | <b>51.63</b> | <b>0.19</b>     | <b>10.77</b>     | <b>3.30</b>       |
| <i>Existing Emissions</i>                  | <i>12.93</i>        | <i>7.30</i>     | <i>57.16</i> | <i>0.13</i>     | <i>9.94</i>      | <i>2.70</i>       |
| <b>Net Emissions (Proposed – Existing)</b> | <b>1.57</b>         | <b>15.11</b>    | <b>-5.53</b> | <b>0.06</b>     | <b>0.83</b>      | <b>0.60</b>       |
| SCAQMD Regional Threshold                  | 55                  | 55              | 550          | 150             | 150              | 55                |
| <b>Threshold Exceeded?</b>                 | <b>NO</b>           | <b>NO</b>       | <b>NO</b>    | <b>NO</b>       | <b>NO</b>        | <b>NO</b>         |
| Winter                                     |                     |                 |              |                 |                  |                   |
| Mobile Source                              | 2.89                | 13.57           | 28.74        | 0.17            | 10.25            | 2.79              |
| Area Source                                | 6.32                | 0.00            | 0.00         | 0.00            | 0.00             | 0.00              |
| Energy Source                              | 0.01                | 0.20            | 0.17         | 0.00            | 0.02             | 0.02              |
| Stationary Source                          | 3.28                | 9.17            | 8.37         | 0.02            | 0.48             | 0.48              |
| <b>Total Maximum Daily Emissions</b>       | <b>12.50</b>        | <b>22.95</b>    | <b>37.28</b> | <b>0.18</b>     | <b>10.75</b>     | <b>3.28</b>       |
| <i>Existing Emissions</i>                  | <i>10.95</i>        | <i>7.66</i>     | <i>41.46</i> | <i>0.12</i>     | <i>9.92</i>      | <i>2.69</i>       |
| <b>Net Emissions (Proposed – Existing)</b> | <b>1.56</b>         | <b>15.29</b>    | <b>-4.18</b> | <b>0.06</b>     | <b>0.83</b>      | <b>0.60</b>       |
| SCAQMD Regional Threshold                  | 55                  | 55              | 550          | 150             | 150              | 55                |
| <b>Threshold Exceeded?</b>                 | <b>NO</b>           | <b>NO</b>       | <b>NO</b>    | <b>NO</b>       | <b>NO</b>        | <b>NO</b>         |

Source: CalEEMod operational-source emissions are presented in Appendix 3.1.

### 3.6 LOCALIZED SIGNIFICANCE

#### BACKGROUND ON LST DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4.<sup>8</sup> LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (39).

#### EMISSIONS CONSIDERED

Based on SCAQMD's *LST Methodology*, emissions for concern during construction activities are on-site NO<sub>x</sub>, CO, PM<sub>2.5</sub>, and PM<sub>10</sub>. The *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (40)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

#### DISPERSION MODELING

In order to estimate localized pollutant concentrations resulting from Project construction, the SCAQMD-approved American Meteorological Society/EPA Regulatory Model (AERMOD) dispersion model was utilized. The modeling approach utilized is discussed as follows:

#### SOURCES

It should be noted that in order to model worst-case conditions, the highest daily peak on-site emissions resulting from overlapping construction activity were modeled.

<sup>8</sup> The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

A ground level release height and a 1 meter (approximately 3.28 feet) initial vertical dimension (sigma z) were utilized for fugitive dust emissions of PM<sub>10</sub> and PM<sub>2.5</sub> consistent with SCAQMD's LST guidance.

In order to account for equipment exhaust emissions from NO<sub>2</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> a release height of 5.0 meters was utilized consistent with SCAQMD's LST guidance.

#### **METEOROLOGICAL DATA AND MODEL OPTIONS**

In order to account for meteorological conditions at the Project site, meteorological data from the SCAQMD's Hawthorne monitoring station was utilized, as this is the nearest station to the Project site for which meteorological data is available. Additionally, a receptor height of 2 meters and regulatory default options were utilized consistent with SCAQMD's LST guidance.

#### **RECEPTORS**

As previously stated, LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors." These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site has been used to determine construction and operational air quality impacts for emissions of PM<sub>10</sub> and PM<sub>2.5</sub>, since PM<sub>10</sub> and PM<sub>2.5</sub> thresholds are based on a 24-hour averaging time.

LSTs apply, even for non-sensitive land uses, consistent with *LST Methodology* and SCAQMD guidance. Per the *LST Methodology*, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain on-site for a full 24 hours but are typically on-site for 8 hours or less. However, *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO<sub>2</sub> and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours (40).*" Therefore, any adjacent land use where an individual could remain for 1 or 8 hours, that is located at a closer distance to the Project site than the receptor used for PM<sub>10</sub> and PM<sub>2.5</sub> analysis, must be considered to determine construction and operational LST air impacts for emissions of NO<sub>2</sub> and CO since these pollutants have an averaging time of 1 and 8 hours.

#### **RECEPTORS**

Receptors in the Project area are described below and shown on Exhibit 3-A. Localized air quality impacts were evaluated at receptor land uses nearest the Project site. All distances are measured

from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site.

- R1: Location R1 represents the existing residence building at 18931 Haas Avenue, approximately 112 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R1 is placed at the building façade.
- R2: Location R2 represents the existing residence building at 18932 Haas Avenue, approximately 120 feet north of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R2 is placed at the building façade.
- R3: Location R3 represents the existing residence building at 18931 Wilton Place, approximately 152 feet northeast of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R3 is placed at the building façade.
- R4: Location R4 represents the existing residence at 18932 Van Ness Ave, approximately 121 feet north of the Project site. Receptor R4 is placed in the private outdoor living area (backyard) facing the Project site.
- R5: Location R5 represents the Epirus located at 19145 Gramercy Pl, approximately 57 feet east of the Project site. Receptor R5 is placed at the building façade.
- R6: Location R6 represents 186<sup>th</sup> Street Elementary School, located approximately 3,352 feet northeast of the Project site. Receptor R6 is placed at the building façade.

The SCAQMD recommends that the nearest sensitive receptor be considered when determining a Project's impact. The nearest land use where an individual could remain for 24 hours to the Project site has been used to determine localized construction and operational air quality impacts for emissions of PM<sub>10</sub> and PM<sub>2.5</sub> (since PM<sub>10</sub> and PM<sub>2.5</sub> thresholds are based on a 24-hour averaging time). As previously stated, and consistent with LST Methodology, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO<sub>x</sub> and CO as the averaging periods for these pollutants are shorter (8 hours or less) and it is reasonable to assumed that an individual could be present at these sites for periods of one to 8 hours.



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### 3.7 CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Emissions during the peak construction activity will not exceed the SCAQMD's localized significance thresholds at the maximally exposed receptor location, as illustrated in Table 3-9. All other modeled locations in the study area would experience a lesser concentration and consequently a lesser impact. As such, the Project's localized impacts during construction activity would be less than significant. Outputs from the model runs for construction LSTs are provided in Appendix 3.3.

**TABLE 3-9: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION**

| Peak Construction                       | CO             |             | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
|-----------------------------------------|----------------|-------------|-----------------|------------------|-------------------|
|                                         | Averaging Time |             |                 |                  |                   |
|                                         | 1-Hour         | 8-Hour      | 1-Hour          | 24-Hours         | 24-Hours          |
| Peak Day Localized Emissions            | 0.05           | 0.03        | 3.48E-02        | 1.88             | 1.01              |
| Background Concentration <sup>A</sup>   | 3.2            | 2.6         | 0.071           |                  |                   |
| <b>Total Concentration</b>              | <b>3.25</b>    | <b>2.63</b> | <b>0.11</b>     | <b>1.88</b>      | <b>1.01</b>       |
| SCAQMD Localized Significance Threshold | 20             | 9           | 0.18            | 10.4             | 10.4              |
| <b>Threshold Exceeded?</b>              | <b>NO</b>      | <b>NO</b>   | <b>NO</b>       | <b>NO</b>        | <b>NO</b>         |

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

Based on SCAQMD's LST Methodology, background concentrations are considered only for CO and NO<sub>2</sub>.

### 3.8 OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

The LST analysis generally includes on-site sources (area, energy, mobile, and stationary equipment are previously discussed in Section 3.5 of this report). However, it should be noted that the CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. As such, to establish a maximum potential impact scenario for analytic purposes, the modeled emissions include all on-site Project-related stationary (area) sources and on-site Project-related mobile emissions. In order to account for on-site mobile emissions, a trip length of 0.28 miles was utilized for both trucks and passenger cars.

In order to account for any potential impacts to on-site receptors as a result of operational activity, a scenario conservatively assuming 2028 emissions was analyzed. As shown in Table 3-10 below, emissions would not exceed SCAQMD's localized significance thresholds at the maximally exposed on-site receptors as a result of operational activities.



**TABLE 3-10: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS**

| Peak Construction                       | CO             |             | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
|-----------------------------------------|----------------|-------------|-----------------|------------------|-------------------|
|                                         | Averaging Time |             |                 |                  |                   |
|                                         | 1-Hour         | 8-Hour      | 1-Hour          | 24-Hours         | 24-Hours          |
| Peak Day Localized Emissions            | 1.93E-02       | 1.48E-02    | 5.01E-03        | 0.14             | 0.11              |
| Background Concentration <sup>A</sup>   | 3.2            | 2.6         | 0.071           |                  |                   |
| <b>Total Concentration</b>              | <b>3.22</b>    | <b>2.61</b> | <b>0.08</b>     | <b>0.14</b>      | <b>0.11</b>       |
| SCAQMD Localized Significance Threshold | 20             | 9           | 0.18            | 2.5              | 2.5               |
| <b>Threshold Exceeded?</b>              | <b>NO</b>      | <b>NO</b>   | <b>NO</b>       | <b>NO</b>        | <b>NO</b>         |

<sup>A</sup> Highest concentration from the last three years of available data.

Notes: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in µg/m<sup>3</sup>. All others are expressed in ppm.

Based on SCAQMD's LST Methodology, background concentrations are considered only for CO and NO<sub>2</sub>.

### 3.9 CO "HOT SPOT" ANALYSIS

A CO hotspot is defined as a localized concentration of carbon monoxide exceeding the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm. At the time the most recent CEQA Air Quality Handbook (1993) was published by SCAQMD, the air basin was designated as non-attainment, requiring projects to perform hotspot analyses to ensure they did not worsen the existing conditions. Over the last two decades, background CO concentrations have been significantly reduced due to regulatory controls on tailpipe emissions, which have culminated in the air basin achieving attainment status for CO.

The 2003 AQMP's findings underscore that CO hotspots are highly unlikely due to the reduced background concentrations and the effectiveness of California's air quality management strategies. The substantial reduction in CO levels from the vehicle fleet and the state's attainment status for CO further diminish the need for detailed microscale hotspot analyses, reinforcing that existing monitoring and regulatory frameworks adequately address potential air quality concerns.

In 2003, the SCAQMD as part of its AQMP development process, prepared modeling to determine the potential for CO Hotspots at the four busiest intersections in the air basin. As summarized in the 2003 AQMP, even at one of the busiest intersections at that time, only 0.7 ppm of CO is attributable to vehicular traffic and the remaining 7.7 ppm were due to ambient background conditions. As shown on Table 2-4 in this report, the background 1-hour and 8-hour concentrations are well below the applicable AAQS. The 2003 AQMP's findings underscore that CO hotspots are highly unlikely due to the reduced background concentrations and the effectiveness of California's air quality management strategies. The substantial reduction in CO levels from the vehicle fleet and the state's attainment status for CO further diminish the need for detailed microscale hotspot analyses, reinforcing that existing monitoring and regulatory frameworks adequately address potential air quality concerns.

As such, Project-related traffic at any intersections within the Project area would not cause or contribute to a CO hotspot since the background concentrations are low and any contribution from Project traffic would be negligible.

### 3.10 AQMP

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what used to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as State and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet State and federal ambient air quality standards.

Currently, these State and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the State and federal ambient air quality standards. AQMPs are updated regularly to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In December 2022, the SCAQMD released the *Final 2022 AQMP (2022 AQMP)*. The *2022 AQMP* continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (25). The *2022 AQMP* incorporates scientific and technological information and planning assumptions, including the *2020-2045 RTP/SCS*, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (41). The Project's consistency with the AQMP will be determined using the *2022 AQMP* as discussed below.

It should be noted that although SCAG has released an updated 2024-2050 RTP, the *2022 AQMP* is based on the 2020-2045 RTP.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (42). These indicators are discussed below:

#### 3.10.1 CONSISTENCY CRITERION No. 1

***The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.***

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

**Construction Impacts – Consistency Criterion 1**

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

**Operational Impacts – Consistency Criterion 1**

The Project would not exceed the applicable regional or localized thresholds for operational activity. As such, the Project would not have the potential to result in a significant impact with respect to this criterion and the Project would be consistent with the AQMP.

***On the basis of the preceding discussion, the Project is determined to be consistent with the first criterion.***

**3.10.2 CONSISTENCY CRITERION NO. 2**

***The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.***

The 2022 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Torrance General Plan is considered to be consistent with the AQMP.

**Construction Impacts – Consistency Criterion 2**

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

**Operational Impacts – Consistency Criterion 2**

The General Plan Land Use designation of the Project Site is "Business Park" (I-BP) and the Zoning of the Project site is "Heavy Manufacturing District" (M2). The "Business Park" (I-BP) land use allows for a mixture of business, professional and medical office, research and development, and light industrial uses. Ancillary retail uses are allowed to support these uses (43).

The proposed Project plans to develop two (2) new proposed industrial buildings: an approximately 120,466 square foot (SF) industrial building (Building 1) with 208 parking stalls and an approximately 155,834 SF industrial building (Building 2) with 236 parking stalls on an approximate 14.02-acre site. The proposed uses by the Project are permitted and no General

Plan Land Use Amendment or Zone Change would be required to implement the Project. Since the Project's proposed land and zoning use is consistent with the General Plan and as the Project's construction and operational-source air pollutant emissions would not exceed the regional or localized significance thresholds, the Project is determined to be consistent with the second criterion.

***On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.***

#### **AQMP CONSISTENCY CONCLUSION**

The Project would not result in or cause NAAQS or CAAQS violations as the Project. Additionally, the proposed land uses are consistent with the City's designated uses. As such, the Project is therefore considered to be consistent with the AQMP.

### **3.11 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS**

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Additionally, the Project will not exceed the SCAQMD localized significance thresholds during operational activity. Further, the Project traffic would not create or result in a CO "hotspot." Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

#### **3.11.1 FRIANT RANCH CASE**

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5<sup>th</sup> 502, the California Supreme Court held that an Environmental Impact Report's (EIR) air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

Most local agencies, including the City of Torrance, lack the data to do their own assessment of potential health impacts from criteria air pollutant emissions, as would be required to establish customized, locally-specific thresholds of significance based on potential health impacts from an individual development project. The use of national or "generic" data to fill the gap of missing local data would not yield accurate results because such data does not capture local air patterns, local background conditions, or local population characteristics, all of which play a role in how a population experiences air pollution. Because it is impracticable to accurately isolate the exact cause of a human disease (for example, the role a particular air pollutant plays compared to the role of other allergens and genetics in causing asthma), existing scientific tools cannot accurately estimate health impacts of the Project's air emissions without undue speculation. Instead, readers are directed to the Project's air quality impact analysis above, which provides extensive information concerning the quantifiable and non-quantifiable health risks related to the Project's construction and long-term operation.

Notwithstanding, this AQIA does evaluate the proposed Project's localized impact to air quality for emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> by comparing the proposed project's on-site emissions to the SCAQMD's applicable LST thresholds. The LST analysis above determined that the Project would not result in emissions exceeding SCAQMD's LSTs. Therefore, the proposed Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

As the Project's emissions would comply with federal, state, and local air quality standards, the proposed Project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level and would not provide a reliable indicator of health effects if modeled.

### 3.12 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not propose land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (44).

### 3.13 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designates the Project site as nonattainment for O<sub>3</sub> PM<sub>10</sub>, and PM<sub>2.5</sub> while the NAAQS designates the Project site as nonattainment for O<sub>3</sub> and PM<sub>2.5</sub>.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (45). In this report the SCAQMD clearly states (Page D-3):

*“...the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

*Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.”*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD’s recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SCAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

#### CONSTRUCTION IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

#### OPERATIONAL IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project operational-source air pollutant emissions would not result in exceedances

of regional thresholds. Therefore, proposed Project operational-source emissions would be considered less than significant on a project-specific and cumulative basis.

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## 5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Sequoia Commerce Center. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at [hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com).

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### EDUCATION

Master of Science in Environmental Studies  
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design  
University of California, Irvine • June 2006

### PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008  
Principles of Ambient Air Monitoring – CARB • August 2007  
AB2588 Regulatory Standards – Trinity Consultants • November 2006  
Air Dispersion Modeling – Lakes Environmental • June 2006

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## **APPENDIX 2.1:**

### **STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS**

## **Appendix C**

### **Maps and Tables of Area Designations for State and National Ambient Air Quality Standards**



## **Appendix C**

### **Maps and Tables of Area Designations for State and National Ambient Air Quality Standards**

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

(Updated 5/4/16)

| Ambient Air Quality Standards                     |                         |                                   |                                                        |                                             |                          |                                                                     |
|---------------------------------------------------|-------------------------|-----------------------------------|--------------------------------------------------------|---------------------------------------------|--------------------------|---------------------------------------------------------------------|
| Pollutant                                         | Averaging Time          | California Standards <sup>1</sup> |                                                        | National Standards <sup>2</sup>             |                          |                                                                     |
|                                                   |                         | Concentration <sup>3</sup>        | Method <sup>4</sup>                                    | Primary <sup>3,5</sup>                      | Secondary <sup>3,6</sup> | Method <sup>7</sup>                                                 |
| Ozone (O <sub>3</sub> ) <sup>8</sup>              | 1 Hour                  | 0.09 ppm (180 µg/m³)              | Ultraviolet Photometry                                 | —                                           | Same as Primary Standard | Ultraviolet Photometry                                              |
|                                                   | 8 Hour                  | 0.070 ppm (137 µg/m³)             |                                                        | 0.070 ppm (137 µg/m³)                       |                          |                                                                     |
| Respirable Particulate Matter (PM10) <sup>9</sup> | 24 Hour                 | 50 µg/m³                          | Gravimetric or Beta Attenuation                        | 150 µg/m³                                   | Same as Primary Standard | Inertial Separation and Gravimetric Analysis                        |
|                                                   | Annual Arithmetic Mean  | 20 µg/m³                          |                                                        | —                                           |                          |                                                                     |
| Fine Particulate Matter (PM2.5) <sup>9</sup>      | 24 Hour                 | —                                 | —                                                      | 35 µg/m³                                    | Same as Primary Standard | Inertial Separation and Gravimetric Analysis                        |
|                                                   | Annual Arithmetic Mean  | 12 µg/m³                          | Gravimetric or Beta Attenuation                        | 12.0 µg/m³                                  | 15 µg/m³                 |                                                                     |
| Carbon Monoxide (CO)                              | 1 Hour                  | 20 ppm (23 mg/m³)                 | Non-Dispersive Infrared Photometry (NDIR)              | 35 ppm (40 mg/m³)                           | —                        | Non-Dispersive Infrared Photometry (NDIR)                           |
|                                                   | 8 Hour                  | 9.0 ppm (10 mg/m³)                |                                                        | 9 ppm (10 mg/m³)                            | —                        |                                                                     |
|                                                   | 8 Hour (Lake Tahoe)     | 6 ppm (7 mg/m³)                   |                                                        | —                                           | —                        |                                                                     |
| Nitrogen Dioxide (NO <sub>2</sub> ) <sup>10</sup> | 1 Hour                  | 0.18 ppm (339 µg/m³)              | Gas Phase Chemiluminescence                            | 100 ppb (188 µg/m³)                         | —                        | Gas Phase Chemiluminescence                                         |
|                                                   | Annual Arithmetic Mean  | 0.030 ppm (57 µg/m³)              |                                                        | 0.053 ppm (100 µg/m³)                       | Same as Primary Standard |                                                                     |
| Sulfur Dioxide (SO <sub>2</sub> ) <sup>11</sup>   | 1 Hour                  | 0.25 ppm (655 µg/m³)              | Ultraviolet Fluorescence                               | 75 ppb (196 µg/m³)                          | —                        | Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method) |
|                                                   | 3 Hour                  | —                                 |                                                        | —                                           | 0.5 ppm (1300 µg/m³)     |                                                                     |
|                                                   | 24 Hour                 | 0.04 ppm (105 µg/m³)              |                                                        | 0.14 ppm (for certain areas) <sup>11</sup>  | —                        |                                                                     |
|                                                   | Annual Arithmetic Mean  | —                                 |                                                        | 0.030 ppm (for certain areas) <sup>11</sup> | —                        |                                                                     |
| Lead <sup>12,13</sup>                             | 30 Day Average          | 1.5 µg/m³                         | Atomic Absorption                                      | —                                           | —                        | High Volume Sampler and Atomic Absorption                           |
|                                                   | Calendar Quarter        | —                                 |                                                        | 1.5 µg/m³ (for certain areas) <sup>12</sup> | Same as Primary Standard |                                                                     |
|                                                   | Rolling 3-Month Average | —                                 |                                                        | 0.15 µg/m³                                  |                          |                                                                     |
| Visibility Reducing Particles <sup>14</sup>       | 8 Hour                  | See footnote 14                   | Beta Attenuation and Transmittance through Filter Tape | No National Standards                       |                          |                                                                     |
| Sulfates                                          | 24 Hour                 | 25 µg/m³                          | Ion Chromatography                                     |                                             |                          |                                                                     |
| Hydrogen Sulfide                                  | 1 Hour                  | 0.03 ppm (42 µg/m³)               | Ultraviolet Fluorescence                               |                                             |                          |                                                                     |
| Vinyl Chloride <sup>12</sup>                      | 24 Hour                 | 0.01 ppm (26 µg/m³)               | Gas Chromatography                                     |                                             |                          |                                                                     |
| See footnotes on next page ...                    |                         |                                   |                                                        |                                             |                          |                                                                     |

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM<sub>10</sub>, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m<sup>3</sup> is equal to or less than one. For PM<sub>2.5</sub>, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
9. On December 14, 2012, the national annual PM<sub>2.5</sub> primary standard was lowered from 15 µg/m<sup>3</sup> to 12.0 µg/m<sup>3</sup>. The existing national 24-hour PM<sub>2.5</sub> standards (primary and secondary) were retained at 35 µg/m<sup>3</sup>, as was the annual secondary standard of 15 µg/m<sup>3</sup>. The existing 24-hour PM<sub>10</sub> standards (primary and secondary) of 150 µg/m<sup>3</sup> also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
11. On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.  
  
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m<sup>3</sup> as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

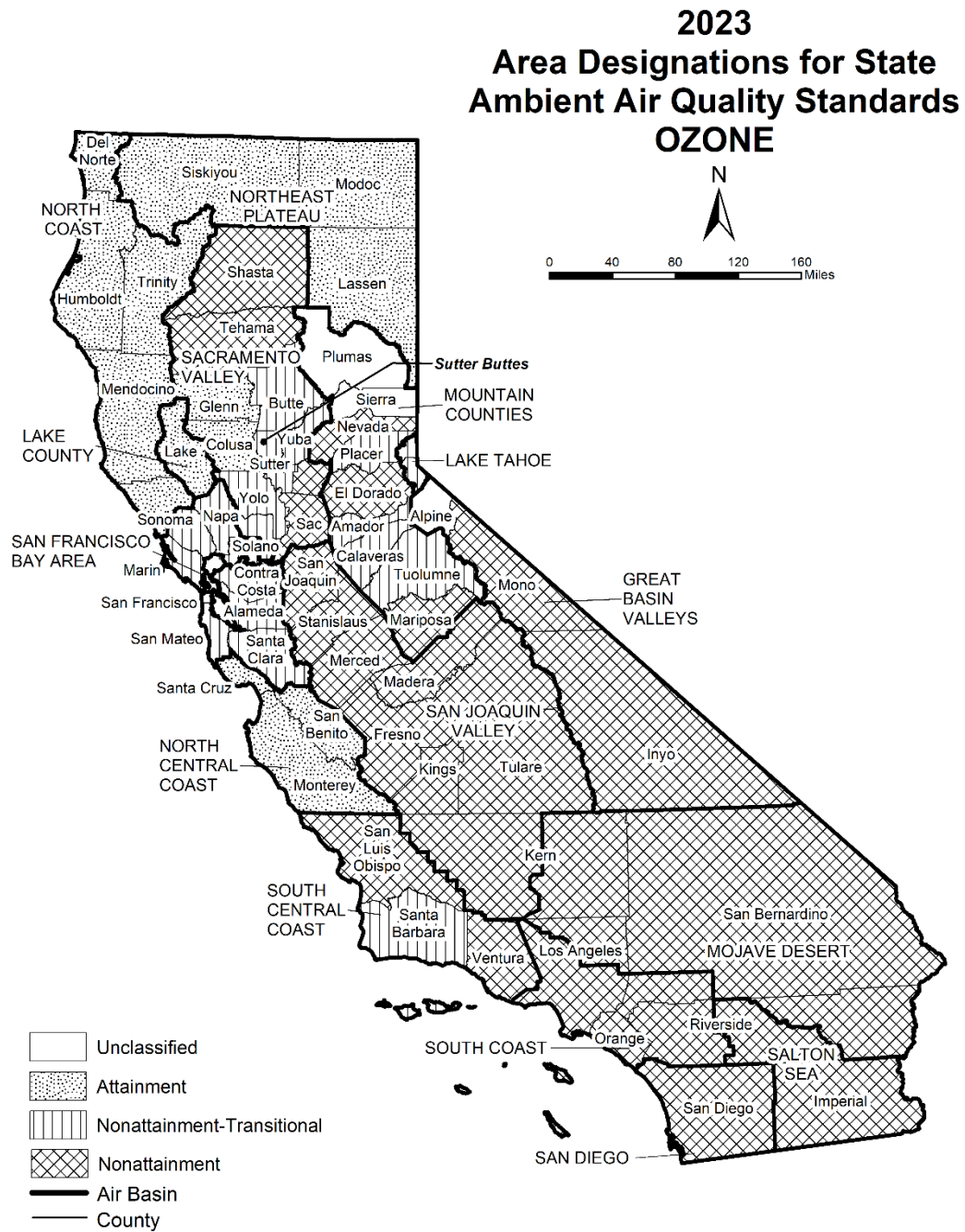
## Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

| <b>Designation</b>         | <b>Abbreviation</b> |
|----------------------------|---------------------|
| Attainment                 | A                   |
| Nonattainment              | N                   |
| Nonattainment-Transitional | NA-T                |
| Unclassified               | U                   |

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

**Figure 1**



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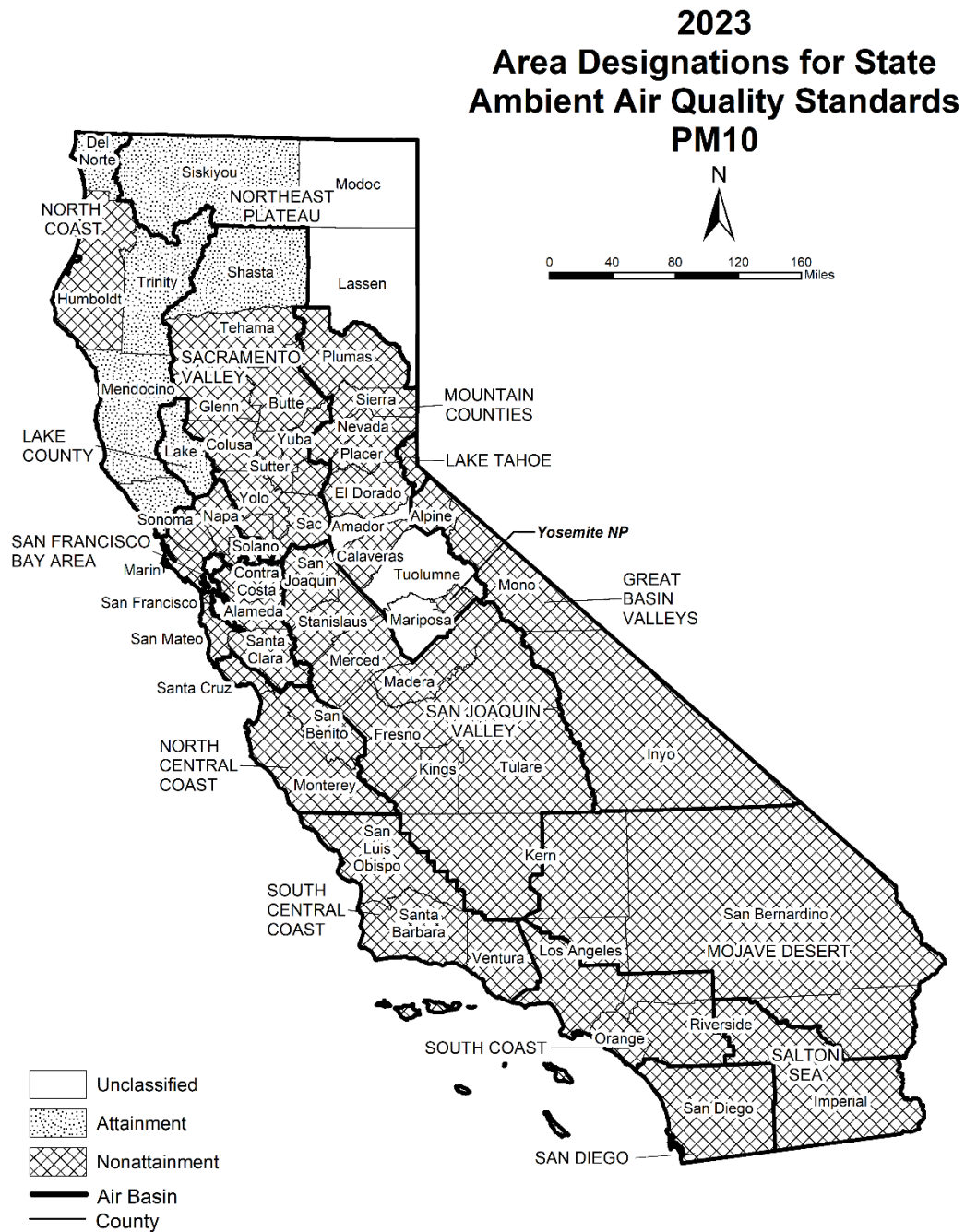
**Table 1**  
**California Ambient Air Quality Standards Area Designations for**  
**Ozone<sup>1</sup>**

| Area                          | N | NA-T | U | A |
|-------------------------------|---|------|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   |      |   |   |
| Alpine County                 |   |      | U |   |
| Inyo County                   | N |      |   |   |
| Mono County                   | N |      |   |   |
| LAKE COUNTY AIR BASIN         |   |      |   | A |
| LAKE TAHOE AIR BASIN          |   | NA-T |   |   |
| MOJAVE DESERT AIR BASIN       | N |      |   |   |
| MOUNTAIN COUNTIES AIR BASIN   |   |      |   |   |
| Amador County                 |   | NA-T |   |   |
| Calaveras County              |   | NA-T |   |   |
| El Dorado County (portion)    | N |      |   |   |
| Mariposa County               | N |      |   |   |
| Nevada County                 | N |      |   |   |
| Placer County (portion)       |   | NA-T |   |   |
| Plumas County                 |   |      | U |   |
| Sierra County                 |   |      | U |   |
| Tuolumne County               |   | NA-T |   |   |
| NORTH CENTRAL COAST AIR BASIN |   |      |   | A |
| NORTH COAST AIR BASIN         |   |      |   | A |
| NORTHEAST PLATEAU AIR BASIN   |   |      |   | A |

| Area                             | N | NA-T | U | A |
|----------------------------------|---|------|---|---|
| SACRAMENTO VALLEY AIR BASIN      |   |      |   |   |
| Butte County                     |   | NA-T |   |   |
| Colusa and Glenn Counties        |   |      |   | A |
| Shasta County                    | N |      |   |   |
| Sutter/Yuba Counties             |   |      |   |   |
| Sutter Buttes                    |   | NA-T |   |   |
| Remainder of Sutter County       |   | NA-T |   |   |
| Yuba County                      |   | NA-T |   |   |
| Yolo/Solano Counties             |   | NA-T |   |   |
| Remainder of Air Basin           | N |      |   |   |
| SALTON SEA AIR BASIN             | N |      |   |   |
| SAN DIEGO AIR BASIN              | N |      |   |   |
| SAN FRANCISCO BAY AREA AIR BASIN |   | NA-T |   |   |
| SAN JOAQUIN VALLEY AIR BASIN     | N |      |   |   |
| SOUTH CENTRAL COAST AIR BASIN    |   |      |   |   |
| San Luis Obispo County           | N |      |   |   |
| Santa Barbara County             |   | NA-T |   |   |
| Ventura County                   | N |      |   |   |
| SOUTH COAST AIR BASIN            | N |      |   |   |

<sup>1</sup> AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

**Figure 2**



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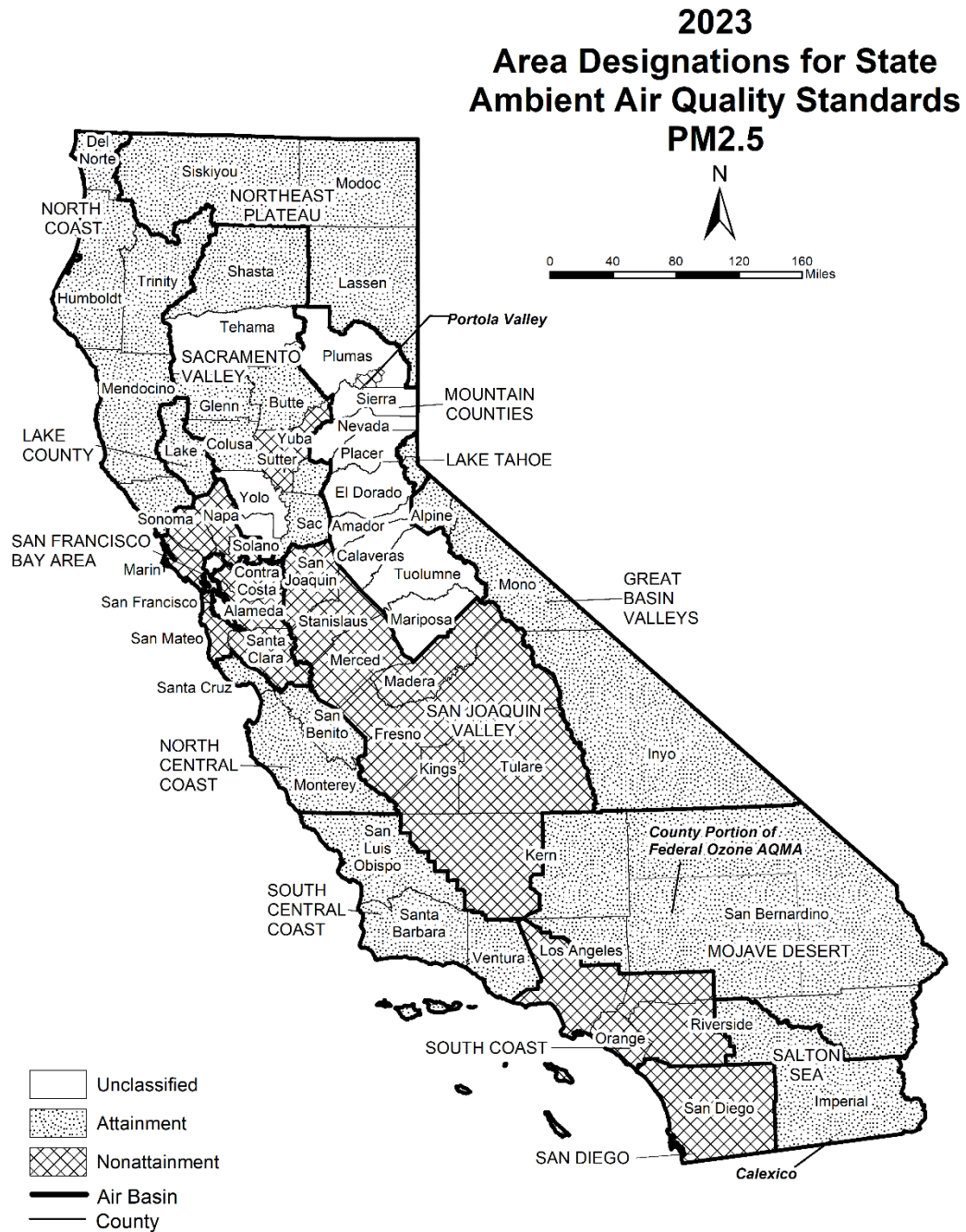
**Table 2**  
**California Ambient Air Quality Standards Area Designations for**  
**Suspended Particulate Matter (PM<sub>10</sub>)**

| Area                          | N | U | A |
|-------------------------------|---|---|---|
| GREAT BASIN VALLEYS AIR BASIN | N |   |   |
| LAKE COUNTY AIR BASIN         |   |   | A |
| LAKE TAHOE AIR BASIN          | N |   |   |
| MOJAVE DESERT AIR BASIN       | N |   |   |
| MOUNTAIN COUNTIES AIR BASIN   |   |   |   |
| Amador County                 |   | U |   |
| Calaveras County              | N |   |   |
| El Dorado County (portion)    | N |   |   |
| Mariposa County               |   |   |   |
| - Yosemite National Park      | N |   |   |
| - Remainder of County         |   | U |   |
| Nevada County                 | N |   |   |
| Placer County (portion)       | N |   |   |
| Plumas County                 | N |   |   |
| Sierra County                 | N |   |   |
| Tuolumne County               |   | U |   |

| Area                                                        | N | U | A |
|-------------------------------------------------------------|---|---|---|
| NORTH CENTRAL COAST AIR BASIN                               | N |   |   |
| NORTH COAST AIR BASIN                                       |   |   |   |
| Del Norte, Mendocino, Sonoma (portion) and Trinity Counties |   |   | A |
| Remainder of Air Basin                                      | N |   |   |
| NORTHEAST PLATEAU AIR BASIN                                 |   |   |   |
| Siskiyou County                                             |   |   | A |
| Remainder of Air Basin                                      |   | U |   |
| SACRAMENTO VALLEY AIR BASIN                                 |   |   |   |
| Shasta County                                               |   |   | A |
| Remainder of Air Basin                                      | N |   |   |
| SALTON SEA AIR BASIN                                        | N |   |   |
| SAN DIEGO AIR BASIN                                         | N |   |   |
| SAN FRANCISCO BAY AREA AIR BASIN                            | N |   |   |
| SAN JOAQUIN VALLEY AIR BASIN                                | N |   |   |
| SOUTH CENTRAL COAST AIR BASIN                               | N |   |   |
| SOUTH COAST AIR BASIN                                       | N |   |   |



**Figure 3**



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**Table 3**  
**California Ambient Air Quality Standards Area Designations for**  
**Fine Particulate Matter (PM<sub>2.5</sub>)**

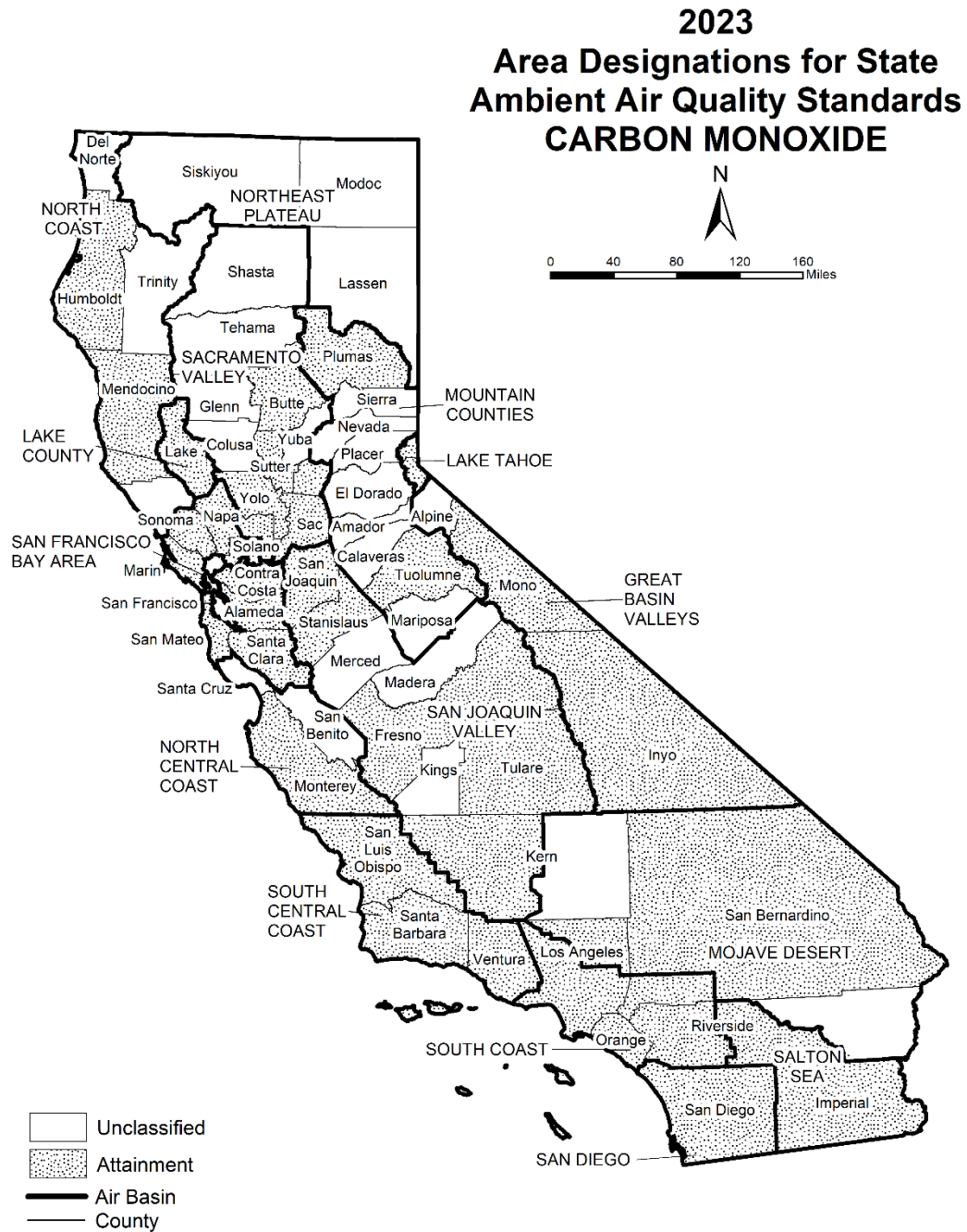
| Area                          | N | U | A |
|-------------------------------|---|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   |   | A |
| LAKE COUNTY AIR BASIN         |   |   | A |
| LAKE TAHOE AIR BASIN          |   |   | A |
| MOJAVE DESERT AIR BASIN       |   |   | A |
| MOUNTAIN COUNTIES AIR BASIN   |   |   |   |
| Plumas County                 |   |   |   |
| - Portola Valley <sup>1</sup> | N |   |   |
| - Remainder Plumas County     |   | U |   |
| Remainder of Air Basin        |   | U |   |
| NORTH CENTRAL COAST AIR BASIN |   |   | A |
| NORTH COAST AIR BASIN         |   |   | A |
| NORTHEAST PLATEAU AIR BASIN   |   |   | A |
| SACRAMENTO VALLEY AIR BASIN   |   |   |   |
| Butte County                  |   |   | A |
| Colusa County                 |   |   | A |
| Glenn County                  |   |   | A |
| Placer County (portion)       |   |   | A |
| Sacramento County             |   |   | A |
| Shasta County                 |   |   | A |
| Sutter and Yuba Counties      | N |   |   |
| Remainder of Air Basin        |   | U |   |

| Area                             | N | U | A |
|----------------------------------|---|---|---|
| SALTON SEA AIR BASIN             |   |   |   |
| Imperial County                  |   |   |   |
| - City of Calexico <sup>2</sup>  | N |   |   |
| Remainder of Air Basin           |   |   | A |
| SAN DIEGO AIR BASIN              | N |   |   |
| SAN FRANCISCO BAY AREA AIR BASIN | N |   |   |
| SAN JOAQUIN VALLEY AIR BASIN     | N |   |   |
| SOUTH CENTRAL COAST AIR BASIN    |   |   | A |
| SOUTH COAST AIR BASIN            | N |   |   |

<sup>1</sup> California Code of Regulations, title 17, section 60200(c)

<sup>2</sup> California Code of Regulations, title 17, section 60200(a)

**Figure 4**



Last Updated: November 2023  
Air Quality Planning and Science Division, CARB

**Table 4**  
**California Ambient Air Quality Standards Area Designations for**  
**Carbon Monoxide\***

| Area                            | N | NA-T | U | A |
|---------------------------------|---|------|---|---|
| GREAT BASIN VALLEYS AIR BASIN   |   |      |   |   |
| Alpine County                   |   |      | U |   |
| Inyo County                     |   |      |   | A |
| Mono County                     |   |      |   | A |
| LAKE COUNTY AIR BASIN           |   |      |   | A |
| LAKE TAHOE AIR BASIN            |   |      |   | A |
| MOJAVE DESERT AIR BASIN         |   |      |   |   |
| Kern County (portion)           |   |      | U |   |
| Los Angeles County (portion)    |   |      |   | A |
| Riverside County (portion)      |   |      | U |   |
| San Bernardino County (portion) |   |      |   | A |
| MOUNTAIN COUNTIES AIR BASIN     |   |      |   |   |
| Amador County                   |   |      | U |   |
| Calaveras County                |   |      | U |   |
| El Dorado County (portion)      |   |      | U |   |
| Mariposa County                 |   |      | U |   |
| Nevada County                   |   |      | U |   |
| Placer County (portion)         |   |      | U |   |
| Plumas County                   |   |      |   | A |
| Sierra County                   |   |      | U |   |
| Tuolumne County                 |   |      |   | A |
| NORTH CENTRAL COAST AIR BASIN   |   |      |   |   |
| Monterey County                 |   |      |   | A |
| San Benito County               |   |      | U |   |
| Santa Cruz County               |   |      | U |   |
| NORTH COAST AIR BASIN           |   |      |   |   |
| Del Norte County                |   |      | U |   |
| Humboldt County                 |   |      |   | A |
| Mendocino County                |   |      |   | A |
| Sonoma County (portion)         |   |      | U |   |
| Trinity County                  |   |      | U |   |
| NORTHEAST PLATEAU AIR BASIN     |   |      | U |   |

| Area                             | N | NA-T | U | A |
|----------------------------------|---|------|---|---|
| SACRAMENTO VALLEY AIR BASIN      |   |      |   |   |
| Butte County                     |   |      |   | A |
| Colusa County                    |   |      | U |   |
| Glenn County                     |   |      | U |   |
| Placer County (portion)          |   |      |   | A |
| Sacramento County                |   |      |   | A |
| Shasta County                    |   |      | U |   |
| Solano County (portion)          |   |      |   | A |
| Sutter County                    |   |      |   | A |
| Tehama County                    |   |      | U |   |
| Yolo County                      |   |      |   | A |
| Yuba County                      |   |      | U |   |
| SALTON SEA AIR BASIN             |   |      |   | A |
| SAN DIEGO AIR BASIN              |   |      |   | A |
| SAN FRANCISCO BAY AREA AIR BASIN |   |      |   | A |
| SAN JOAQUIN VALLEY AIR BASIN     |   |      |   |   |
| Fresno County                    |   |      |   | A |
| Kern County (portion)            |   |      |   | A |
| Kings County                     |   |      | U |   |
| Madera County                    |   |      | U |   |
| Merced County                    |   |      | U |   |
| San Joaquin County               |   |      |   | A |
| Stanislaus County                |   |      |   | A |
| Tulare County                    |   |      |   | A |
| SOUTH CENTRAL COAST AIR BASIN    |   |      |   | A |
| SOUTH COAST AIR BASIN            |   |      |   | A |

\* The area designated for carbon monoxide is a county or portion of a county

**Figure 5**



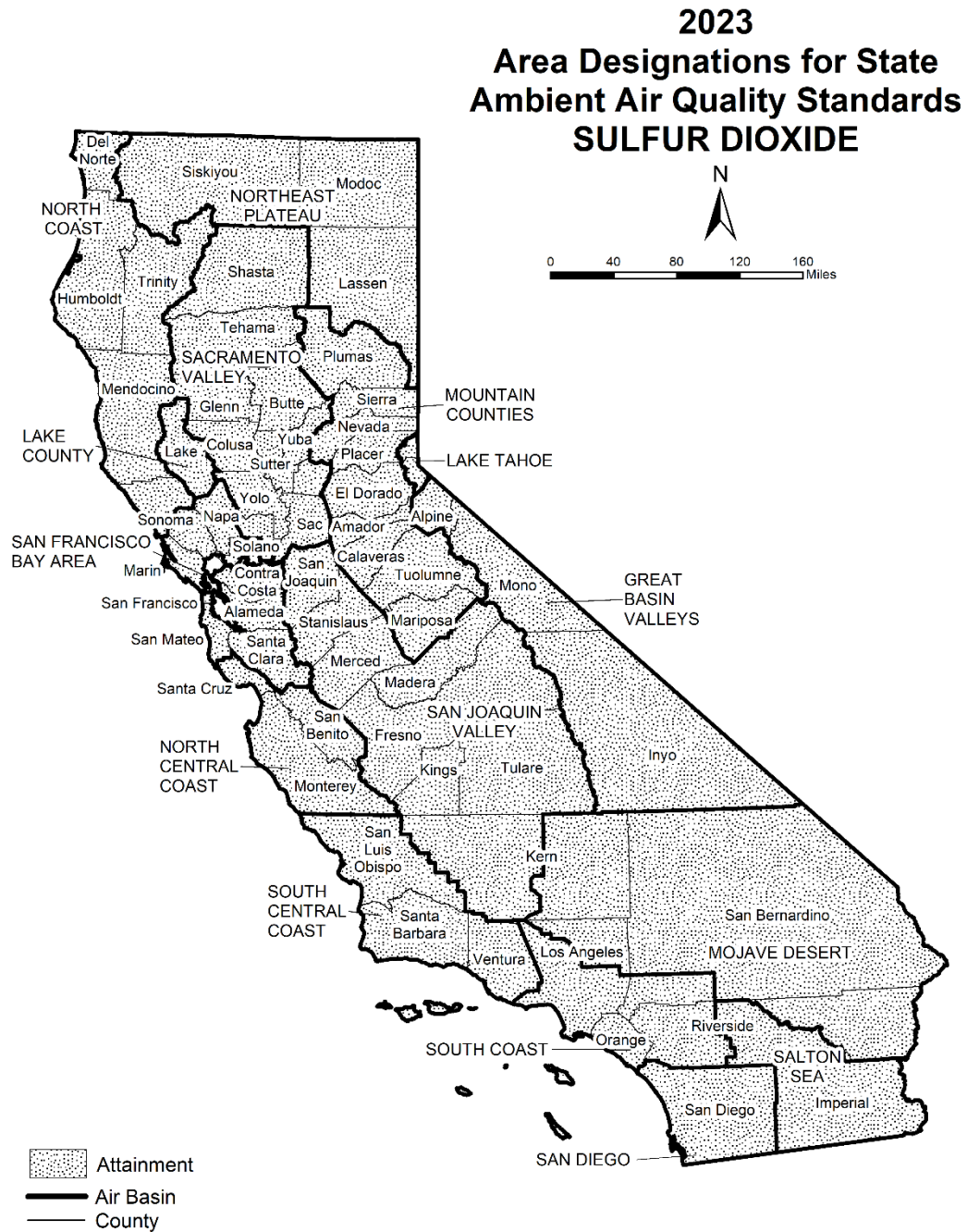
Last Updated: November 2023  
Air Quality Planning and Science Division, CARB

**Table 5**  
**California Ambient Air Quality Standards Area Designations for**  
**Nitrogen Dioxide**

| Area                          | N | U | A |
|-------------------------------|---|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   |   | A |
| LAKE COUNTY AIR BASIN         |   |   | A |
| LAKE TAHOE AIR BASIN          |   |   | A |
| MOJAVE DESERT AIR BASIN       |   |   | A |
| MOUNTAIN COUNTIES AIR BASIN   |   |   | A |
| NORTH CENTRAL COAST AIR BASIN |   |   | A |
| NORTH COAST AIR BASIN         |   |   | A |
| NORTHEAST PLATEAU AIR BASIN   |   |   | A |

| Area                                                                           | N | U | A |
|--------------------------------------------------------------------------------|---|---|---|
| SACRAMENTO VALLEY AIR BASIN                                                    |   |   | A |
| SALTON SEA AIR BASIN                                                           |   |   | A |
| SAN DIEGO AIR BASIN                                                            |   |   | A |
| SAN FRANCISCO BAY AREA AIR BASIN                                               |   |   | A |
| SAN JOAQUIN VALLEY AIR BASIN                                                   |   |   | A |
| SOUTH CENTRAL COAST AIR BASIN                                                  |   |   | A |
| SOUTH COAST AIR BASIN                                                          |   |   |   |
| CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties |   |   | A |
| Remainder of Air Basin                                                         |   |   | A |

**Figure 6**



Last Updated: November 2023  
Air Quality Planning and Science Division, CARB

**Table 6**  
**California Ambient Air Quality Standards Area Designations for Sulfur Dioxide\***

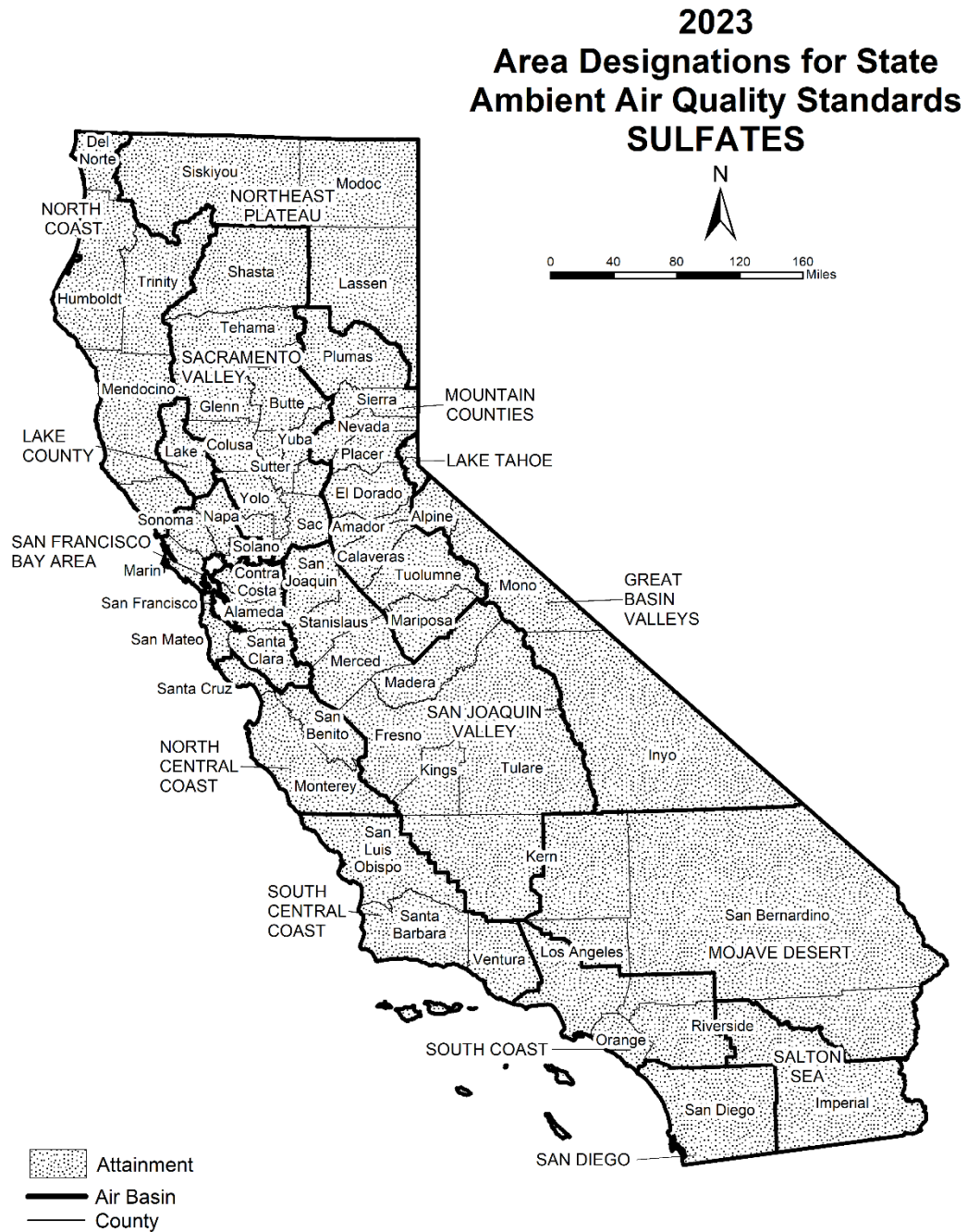
| Area                          | N | A |
|-------------------------------|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   | A |
| LAKE COUNTY AIR BASIN         |   | A |
| LAKE TAHOE AIR BASIN          |   | A |
| MOJAVE DESERT AIR BASIN       |   | A |
| MOUNTAIN COUNTIES AIR BASIN   |   | A |
| NORTH CENTRAL COAST AIR BASIN |   | A |
| NORTH COAST AIR BASIN         |   | A |
| NORTHEAST PLATEAU AIR BASIN   |   | A |

| Area                             | N | A |
|----------------------------------|---|---|
| SACRAMENTO VALLEY AIR BASIN      |   | A |
| SALTON SEA AIR BASIN             |   | A |
| SAN DIEGO AIR BASIN              |   | A |
| SAN FRANCISCO BAY AREA AIR BASIN |   | A |
| SAN JOAQUIN VALLEY AIR BASIN     |   | A |
| SOUTH CENTRAL COAST AIR BASIN    |   | A |
| SOUTH COAST AIR BASIN            |   | A |

\* The area designated for sulfur dioxide is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.



**Figure 7**



Last Updated: November 2023  
Air Quality Planning and Science Division, CARB

**Table 7**  
**California Ambient Air Quality Standards Area Designations for**  
**Sulfates**

| Area                          | N | U | A |
|-------------------------------|---|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   |   | A |
| LAKE COUNTY AIR BASIN         |   |   | A |
| LAKE TAHOE AIR BASIN          |   |   | A |
| MOJAVE DESERT AIR BASIN       |   |   | A |
| MOUNTAIN COUNTIES AIR BASIN   |   |   | A |
| NORTH CENTRAL COAST AIR BASIN |   |   | A |
| NORTH COAST AIR BASIN         |   |   | A |
| NORTHEAST PLATEAU AIR BASIN   |   |   | A |

| Area                             | N | U | A |
|----------------------------------|---|---|---|
| SACRAMENTO VALLEY AIR BASIN      |   |   | A |
| SALTON SEA AIR BASIN             |   |   | A |
| SAN DIEGO AIR BASIN              |   |   | A |
| SAN FRANCISCO BAY AREA AIR BASIN |   |   | A |
| SAN JOAQUIN VALLEY AIR BASIN     |   |   | A |
| SOUTH CENTRAL COAST AIR BASIN    |   |   | A |
| SOUTH COAST AIR BASIN            |   |   | A |

**Figure 8**



Last Updated: November 2023  
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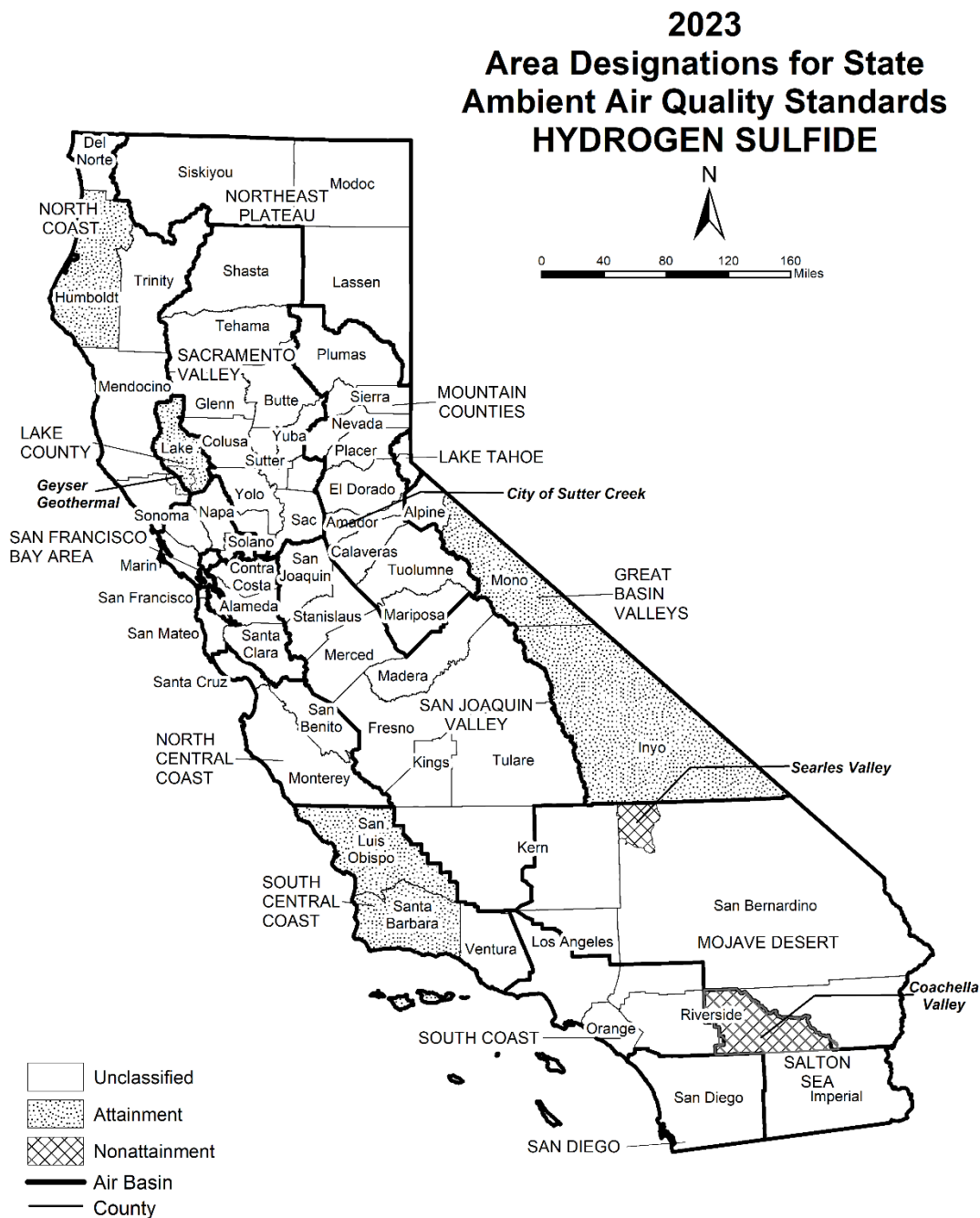
**Table 8**  
**California Ambient Air Quality Standards Area Designations for**  
**Lead (particulate)\***

| Area                          | N | U | A |
|-------------------------------|---|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   |   | A |
| LAKE COUNTY AIR BASIN         |   |   | A |
| LAKE TAHOE AIR BASIN          |   |   | A |
| MOJAVE DESERT AIR BASIN       |   |   | A |
| MOUNTAIN COUNTIES AIR BASIN   |   |   | A |
| NORTH CENTRAL COAST AIR BASIN |   |   | A |
| NORTH COAST AIR BASIN         |   |   | A |
| NORTHEAST PLATEAU AIR BASIN   |   |   | A |
| SACRAMENTO VALLEY AIR BASIN   |   |   | A |

| Area                             | N | U | A |
|----------------------------------|---|---|---|
| SALTON SEA AIR BASIN             |   |   | A |
| SAN DIEGO AIR BASIN              |   |   | A |
| SAN FRANCISCO BAY AREA AIR BASIN |   |   | A |
| SAN JOAQUIN VALLEY AIR BASIN     |   |   | A |
| SOUTH CENTRAL COAST AIR BASIN    |   |   | A |
| SOUTH COAST AIR BASIN            |   |   | A |

\* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

**Figure 9**



Last Updated: November 2023  
Air Quality Planning and Science Division, CARB

**Table 9**  
**California Ambient Air Quality Standards Area Designations for**  
**Hydrogen Sulfide\***

| Area                                        | N | NA-T | U | A |
|---------------------------------------------|---|------|---|---|
| GREAT BASIN VALLEYS AIR BASIN               |   |      |   |   |
| Alpine County                               |   |      | U |   |
| Inyo County                                 |   |      |   | A |
| Mono County                                 |   |      |   | A |
| LAKE COUNTY AIR BASIN                       |   |      |   | A |
| LAKE TAHOE AIR BASIN                        |   |      | U |   |
| MOJAVE DESERT AIR BASIN                     |   |      |   |   |
| Kern County (portion)                       |   |      | U |   |
| Los Angeles County (portion)                |   |      | U |   |
| Riverside County (portion)                  |   |      | U |   |
| San Bernardino County (portion)             |   |      |   |   |
| - Searles Valley Planning Area <sup>1</sup> | N |      |   |   |
| - Remainder of County                       |   |      | U |   |
| MOUNTAIN COUNTIES AIR BASIN                 |   |      |   |   |
| Amador County                               |   |      |   |   |
| - City of Sutter Creek                      | N |      |   |   |
| - Remainder of County                       |   |      | U |   |
| Calaveras County                            |   |      | U |   |
| El Dorado County (portion)                  |   |      | U |   |
| Mariposa County                             |   |      | U |   |
| Nevada County                               |   |      | U |   |
| Placer County (portion)                     |   |      | U |   |
| Plumas County                               |   |      | U |   |
| Sierra County                               |   |      | U |   |
| Tuolumne County                             |   |      | U |   |

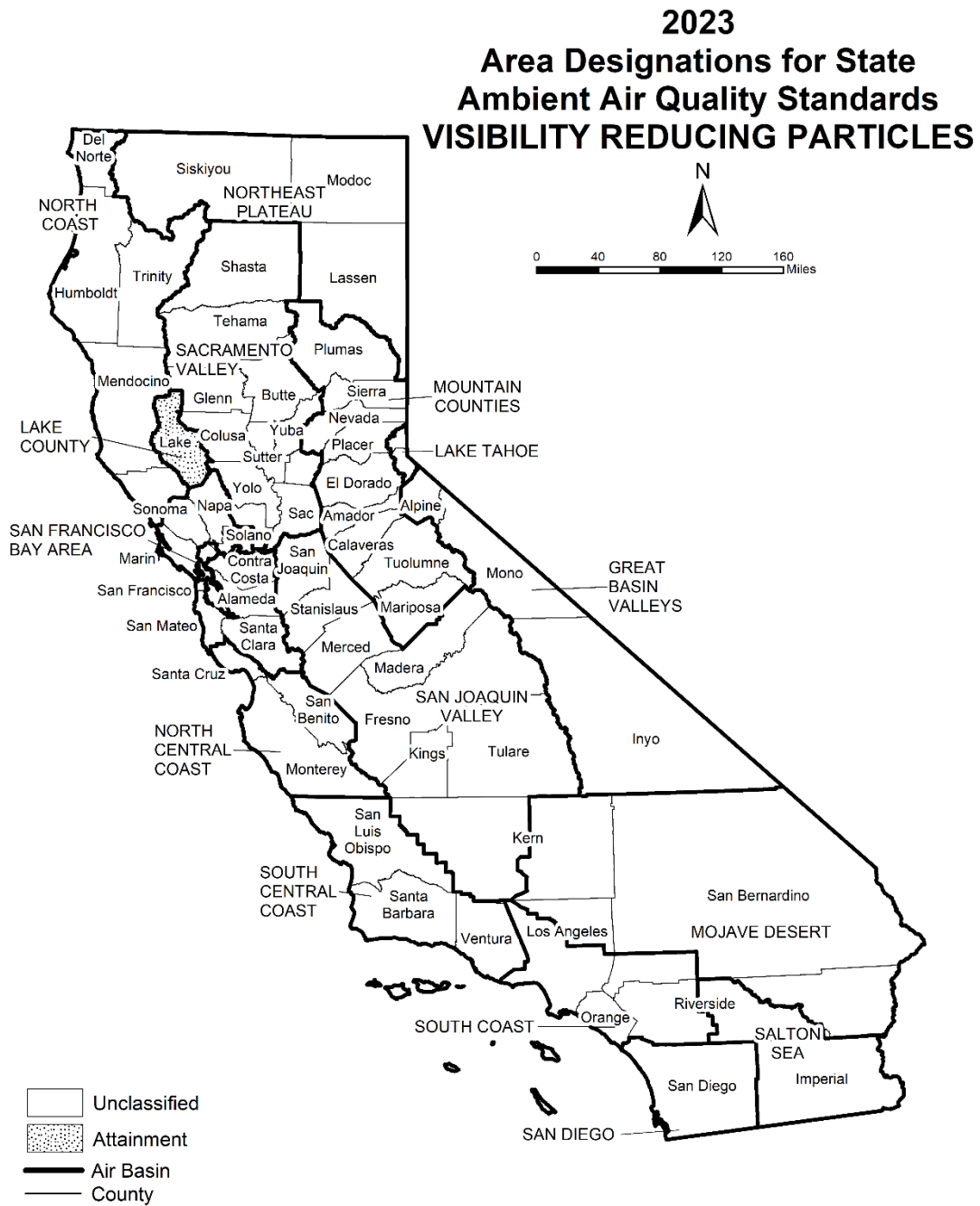
| Area                                  | N | NA-T | U | A |
|---------------------------------------|---|------|---|---|
| NORTH CENTRAL COAST AIR BASIN         |   |      | U |   |
| NORTH COAST AIR BASIN                 |   |      |   |   |
| Del Norte County                      |   |      | U |   |
| Humboldt County                       |   |      |   | A |
| Mendocino County                      |   |      | U |   |
| Sonoma County (portion)               |   |      |   |   |
| - Geyser Geothermal Area <sup>2</sup> |   |      |   | A |
| - Remainder of County                 |   |      | U |   |
| Trinity County                        |   |      | U |   |
| NORTHEAST PLATEAU AIR BASIN           |   |      | U |   |
| SACRAMENTO VALLEY AIR BASIN           |   |      | U |   |
| SALTON SEA AIR BASIN                  |   |      |   |   |
| Riverside County (portion)            | N |      |   |   |
| Imperial County                       |   |      | U |   |
| SAN DIEGO AIR BASIN                   |   |      | U |   |
| SAN FRANCISCO BAY AREA AIR BASIN      |   |      | U |   |
| SAN JOAQUIN VALLEY AIR BASIN          |   |      | U |   |
| SOUTH CENTRAL COAST AIR BASIN         |   |      |   |   |
| San Luis Obispo County                |   |      |   | A |
| Santa Barbara County                  |   |      |   | A |
| Ventura County                        |   |      | U |   |
| SOUTH COAST AIR BASIN                 |   |      | U |   |

\* The area designated for hydrogen sulfide is a county or portion of a county

<sup>1</sup> 52 Federal Register 29384 (August 7, 1987)

<sup>2</sup> California Code of Regulations, title 17, section 60200(d)

**Figure 10**



Last Updated: November 2023  
Air Quality Planning and Science Division, CARB

**Table 10**  
**California Ambient Air Quality Standards Area Designations for**  
**Visibility Reducing Particles**

| Area                          | N | NA-T | U | A |
|-------------------------------|---|------|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   |      | U |   |
| LAKE COUNTY AIR BASIN         |   |      |   | A |
| LAKE TAHOE AIR BASIN          |   |      | U |   |
| MOJAVE DESERT AIR BASIN       |   |      | U |   |
| MOUNTAIN COUNTIES AIR BASIN   |   |      | U |   |
| NORTH CENTRAL COAST AIR BASIN |   |      | U |   |
| NORTH COAST AIR BASIN         |   |      | U |   |
| NORTHEAST PLATEAU AIR BASIN   |   |      | U |   |

| Area                             | N | NA-T | U | A |
|----------------------------------|---|------|---|---|
| SACRAMENTO VALLEY AIR BASIN      |   |      | U |   |
| SALTON SEA AIR BASIN             |   |      | U |   |
| SAN DIEGO AIR BASIN              |   |      | U |   |
| SAN FRANCISCO BAY AREA AIR BASIN |   |      | U |   |
| SAN JOAQUIN VALLEY AIR BASIN     |   |      | U |   |
| SOUTH CENTRAL COAST AIR BASIN    |   |      | U |   |
| SOUTH COAST AIR BASIN            |   |      | U |   |



## Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

<https://www.epa.gov/green-book>

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

<https://www.epa.gov/criteria-air-pollutants>

### Designation Categories

*Suspended Particulate Matter (PM<sub>10</sub>)*. The U.S. EPA uses three categories to designate areas with respect to PM<sub>10</sub>:

- Attainment (A)
- Nonattainment (N)
- Unclassifiable (U)

*Ozone, Fine Suspended Particulate Matter (PM<sub>2.5</sub>), Carbon Monoxide (CO), and Nitrogen Dioxide (NO<sub>2</sub>)*. The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment (N)
- Unclassifiable/Attainment (U/A)

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Area designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary PM<sub>2.5</sub> standard of 12.0 µg/m<sup>3</sup>. Area designations were finalized in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 µg/m<sup>3</sup> as well as the 24-hour standard of 35 µg/m<sup>3</sup>, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO<sub>2</sub> standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO<sub>2</sub> standard became effective on February 29, 2012. All areas of California meet this standard.

*Sulfur Dioxide (SO<sub>2</sub>)*. The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment (N),
- Unclassifiable (U), and
- Unclassifiable/Attainment (U/A).

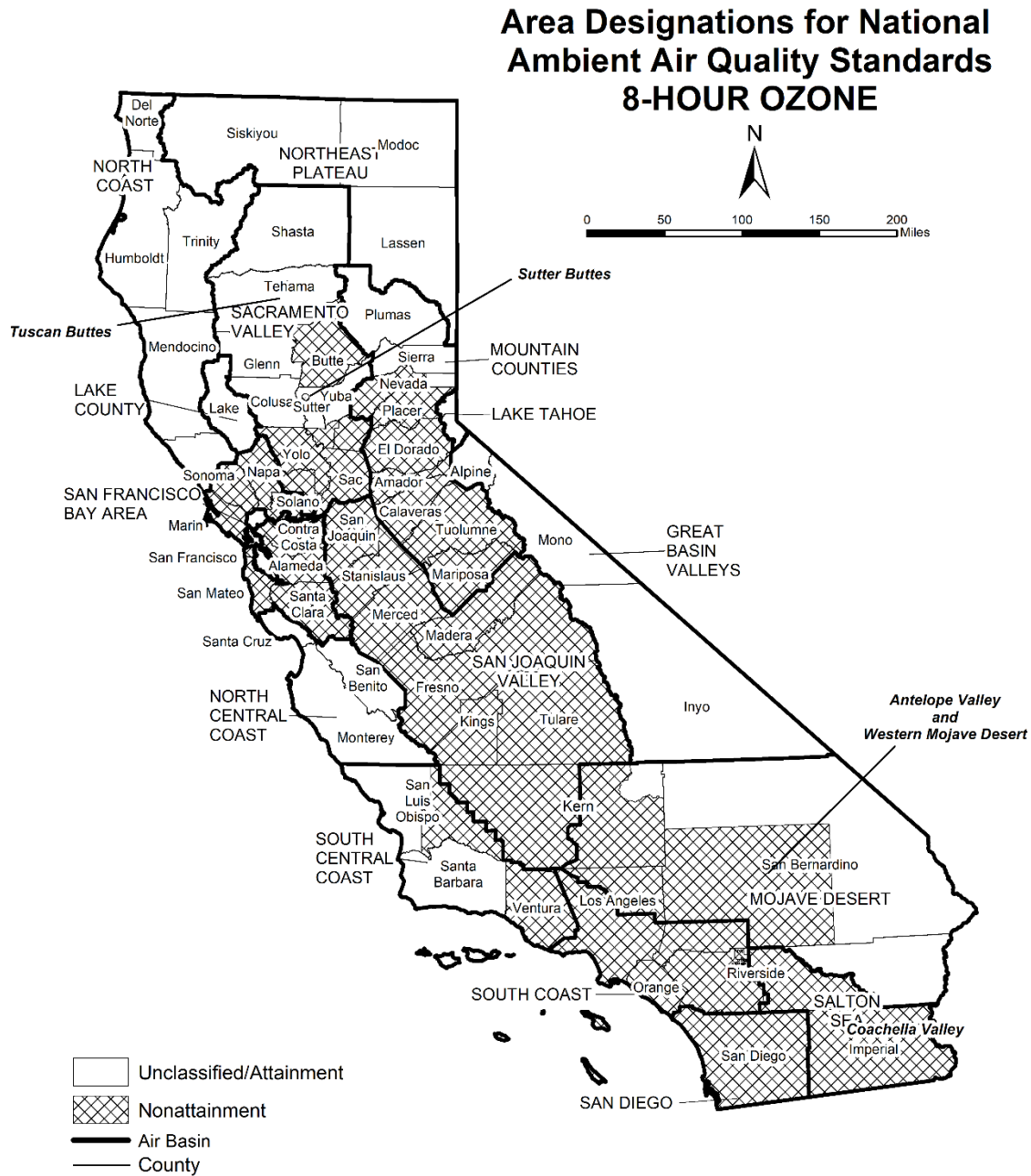
On June 2, 2010, the U.S. EPA established a new primary 1-hour SO<sub>2</sub> standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual average standards. Area designations for the 1-hour SO<sub>2</sub> standard were finalized on December 21, 2017 and are reflected in the area designations map.

*Lead (particulate).* The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m<sup>3</sup>. Designations were made for this standard in November 2010.

## **Designation Areas**

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at: [https://ecfr.io/Title-40/se40.20.81\\_1305](https://ecfr.io/Title-40/se40.20.81_1305)

**Figure 11**



Last Updated: November 2023  
 Map reflects the 2015 8-hour ozone standard of 0.070 ppm  
 Air Quality Planning and Science Division, CARB

**Table 11**  
**National Ambient Air Quality Standards Area Designations for**  
**8-Hour Ozone\***

| Area                                             | N | U/A |
|--------------------------------------------------|---|-----|
| GREAT BASIN VALLEYS AIR BASIN                    |   | U/A |
| LAKE COUNTY AIR BASIN                            |   | U/A |
| LAKE TAHOE AIR BASIN                             |   | U/A |
| MOUNTAIN COUNTIES AIR BASIN                      |   |     |
| Amador County                                    | N |     |
| Calaveras County                                 | N |     |
| El Dorado County (portion) <sup>1</sup>          | N |     |
| Mariposa County                                  | N |     |
| Nevada County                                    |   |     |
| - Western Nevada County                          | N |     |
| - Remainder of County                            |   | U/A |
| Placer County (portion) <sup>1</sup>             | N |     |
| Plumas County                                    |   | U/A |
| Sierra County                                    |   | U/A |
| Tuolumne County                                  | N |     |
| NORTH CENTRAL COAST AIR BASIN                    |   | U/A |
| NORTH COAST AIR BASIN                            |   | U/A |
| NORTHEAST PLATEAU AIR BASIN                      |   | U/A |
| SACRAMENTO VALLEY AIR BASIN                      |   |     |
| Butte County                                     | N |     |
| Colusa County                                    |   | U/A |
| Glenn County                                     |   | U/A |
| Sacramento Metro Area <sup>1</sup>               | N |     |
| Shasta County                                    |   | U/A |
| Sutter County                                    |   |     |
| - Sutter Buttes                                  | N |     |
| - Southern portion of Sutter County <sup>1</sup> | N |     |
| - Remainder of Sutter County                     |   | U/A |
| Tehama County                                    |   |     |
| - Tuscan Buttes                                  | N |     |
| - Remainder of Tehama County                     |   | U/A |

| Area                                             | N | U/A |
|--------------------------------------------------|---|-----|
| SACRAMENTO VALLEY AIR BASIN (cont.)              |   |     |
| Yolo County <sup>1</sup>                         | N |     |
| Yuba County                                      |   | U/A |
| SAN DIEGO COUNTY                                 | N |     |
| SAN FRANCISCO BAY AREA AIR BASIN                 | N |     |
| SAN JOAQUIN VALLEY AIR BASIN                     | N |     |
| SOUTH CENTRAL COAST AIR BASIN <sup>2</sup>       |   |     |
| San Luis Obispo County                           |   |     |
| - Eastern San Luis Obispo County                 | N |     |
| - Remainder of County                            |   | U/A |
| Santa Barbara County                             |   | U/A |
| Ventura County                                   |   |     |
| - Area excluding Anacapa and San Nicolas Islands | N |     |
| - Channel Islands <sup>2</sup>                   |   | U/A |
| SOUTH COAST AIR BASIN <sup>2</sup>               | N |     |
| SOUTHEAST DESERT AIR BASIN                       |   |     |
| Kern County (portion)                            | N |     |
| - Indian Wells Valley                            |   | U/A |
| Imperial County                                  | N |     |
| Los Angeles County (portion)                     | N |     |
| Riverside County (portion)                       |   |     |
| - Coachella Valley                               | N |     |
| - Non-AQMA portion                               |   | U/A |
| San Bernardino County                            |   |     |
| - Western portion (AQMA)                         | N |     |
| - Eastern portion (non-AQMA)                     |   | U/A |

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and Table reflect the 2015 8-hour ozone standard of 0.070 ppm.

<sup>1</sup> For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

<sup>2</sup> South Central Coast Air Basin Channel Islands:

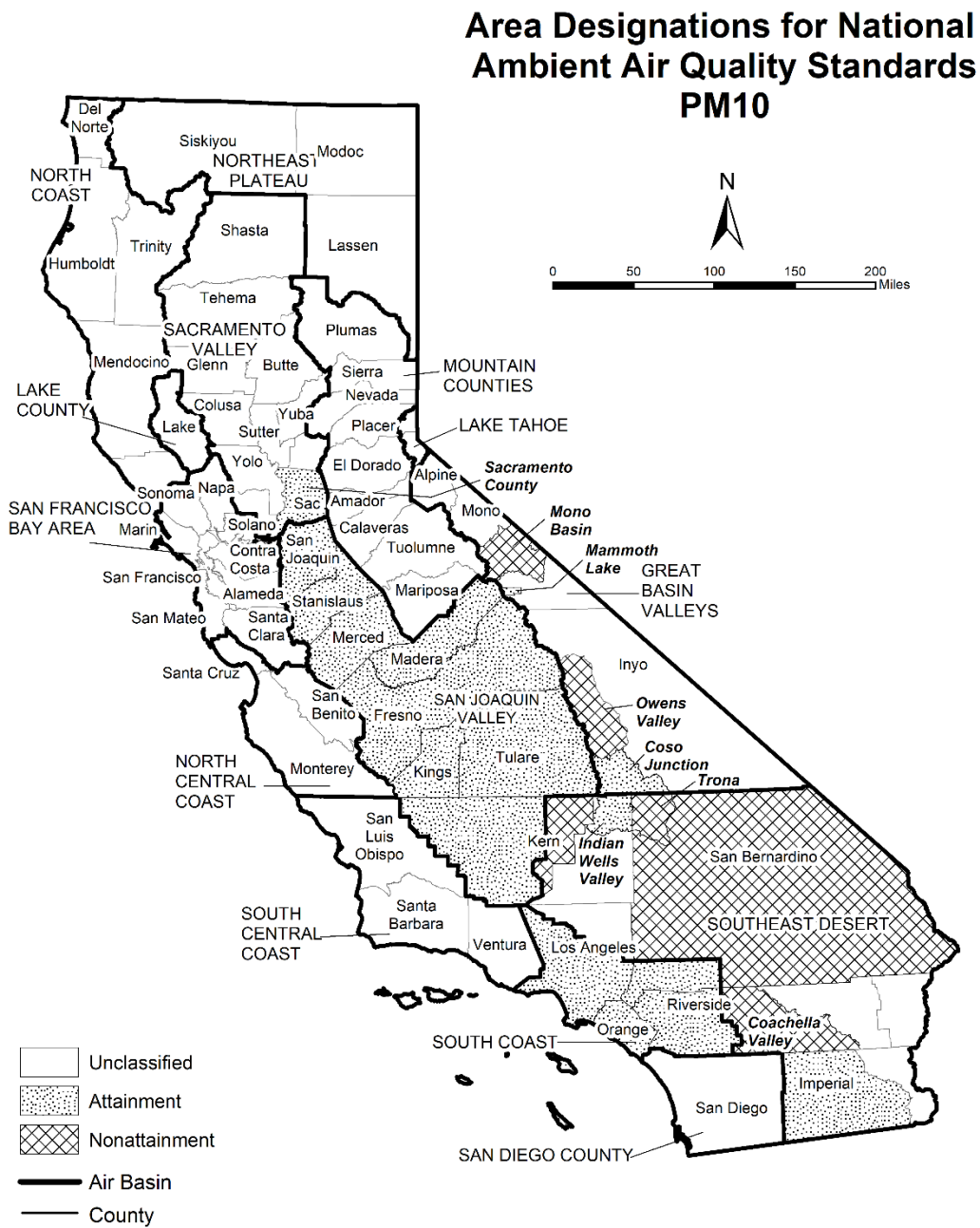
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:

Los Angeles County includes San Clemente and Santa Catalina Islands.

**Figure 12**



Last Updated: November 2023  
Air Quality Planning and Science Division

**Table 12**  
**National Ambient Air Quality Standards Area Designations for**  
**Suspended Particulate Matter (PM<sub>10</sub>)\***

| Area                           | N | U | A |
|--------------------------------|---|---|---|
| GREAT BASIN VALLEYS AIR BASIN  |   |   |   |
| Alpine County                  |   | U |   |
| Inyo County                    |   |   |   |
| - Owens Valley Planning Area   | N |   |   |
| - Coso Junction                |   |   | A |
| - Remainder of County          |   | U |   |
| Mono County                    |   |   |   |
| - Mammoth Lake Planning Area   |   |   | A |
| - Mono Lake Basin              | N |   |   |
| - Remainder of County          |   | U |   |
| LAKE COUNTY AIR BASIN          |   | U |   |
| LAKE TAHOE AIR BASIN           |   | U |   |
| MOUNTAIN COUNTIES AIR BASIN    |   | U |   |
| NORTH CENTRAL COAST AIR BASIN  |   | U |   |
| NORTH COAST AIR BASIN          |   | U |   |
| NORTHEAST PLATEAU AIR BASIN    |   | U |   |
| SACRAMENTO VALLEY AIR BASIN    |   |   |   |
| Sacramento County <sup>1</sup> |   |   | A |
| Remainder of Air Basin         |   | U |   |
| SAN DIEGO COUNTY               |   | U |   |

| Area                                              | N | U | A |
|---------------------------------------------------|---|---|---|
| SAN FRANCISCO BAY AREA AIR BASIN                  |   | U |   |
| SAN JOAQUIN VALLEY AIR BASIN                      |   |   | A |
| SOUTH CENTRAL COAST AIR BASIN                     |   | U |   |
| SOUTH COAST AIR BASIN                             |   |   | A |
| SOUTHEAST DESERT AIR BASIN                        |   |   |   |
| Eastern Kern County                               |   |   |   |
| - Indian Wells Valley                             |   |   | A |
| - Portion within San Joaquin Valley Planning Area | N |   |   |
| - Remainder of County                             |   | U |   |
| Imperial County                                   |   |   |   |
| - Imperial Valley Planning Area <sup>2</sup>      |   |   | A |
| - Remainder of County                             |   | U |   |
| Los Angeles County (portion)                      |   | U |   |
| Riverside County (portion)                        |   |   |   |
| - Coachella Valley                                | N |   |   |
| - Non-AQMA portion                                |   | U |   |
| San Bernardino County                             |   |   |   |
| - Trona                                           | N |   |   |
| - Remainder of County                             | N |   |   |

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

<sup>1</sup> Air quality in Sacramento County meets the national PM<sub>10</sub> standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

<sup>2</sup> The request for redesignation to attainment for the Imperial Valley Planning Area was approved by U.S. EPA in September 2020, effective October 2020.

**Figure 13**



Last Updated: November 2023  
Air Quality Planning and Science Division

**Table 13**  
**National Ambient Air Quality Standards Area Designations for**  
**Fine Particulate Matter (PM<sub>2.5</sub>)**

| Area                                      | N | U/A |
|-------------------------------------------|---|-----|
| GREAT BASIN VALLEYS AIR BASIN             |   | U/A |
| LAKE COUNTY AIR BASIN                     |   | U/A |
| LAKE TAHOE AIR BASIN                      |   | U/A |
| MOUNTAIN COUNTIES AIR BASIN               |   |     |
| Plumas County                             |   |     |
| - Portola Valley Portion of Plumas County | N |     |
| - Remainder of Plumas County              |   | U/A |
| Remainder of Air Basin                    |   | U/A |
| NORTH CENTRAL COAST AIR BASIN             |   | U/A |
| NORTH COAST AIR BASIN                     |   | U/A |
| NORTHEAST PLATEAU AIR BASIN               |   | U/A |
| SACRAMENTO VALLEY AIR BASIN               |   |     |
| Sacramento Metro Area <sup>1</sup>        | N |     |
| Remainder of Air Basin                    |   | U/A |

| Area                                          | N | U/A |
|-----------------------------------------------|---|-----|
| SAN DIEGO COUNTY                              |   | U/A |
| SAN FRANCISCO BAY AREA AIR BASIN <sup>2</sup> | N |     |
| SAN JOAQUIN VALLEY AIR BASIN                  | N |     |
| SOUTH CENTRAL COAST AIR BASIN                 |   | U/A |
| SOUTH COAST AIR BASIN <sup>3</sup>            | N |     |
| SOUTHEAST DESERT AIR BASIN                    |   |     |
| Imperial County (portion) <sup>4</sup>        | N |     |
| Remainder of Air Basin                        |   | U/A |

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM<sub>2.5</sub> standard as well as the 1997 and 2012 PM<sub>2.5</sub> annual standards.

<sup>1</sup> For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

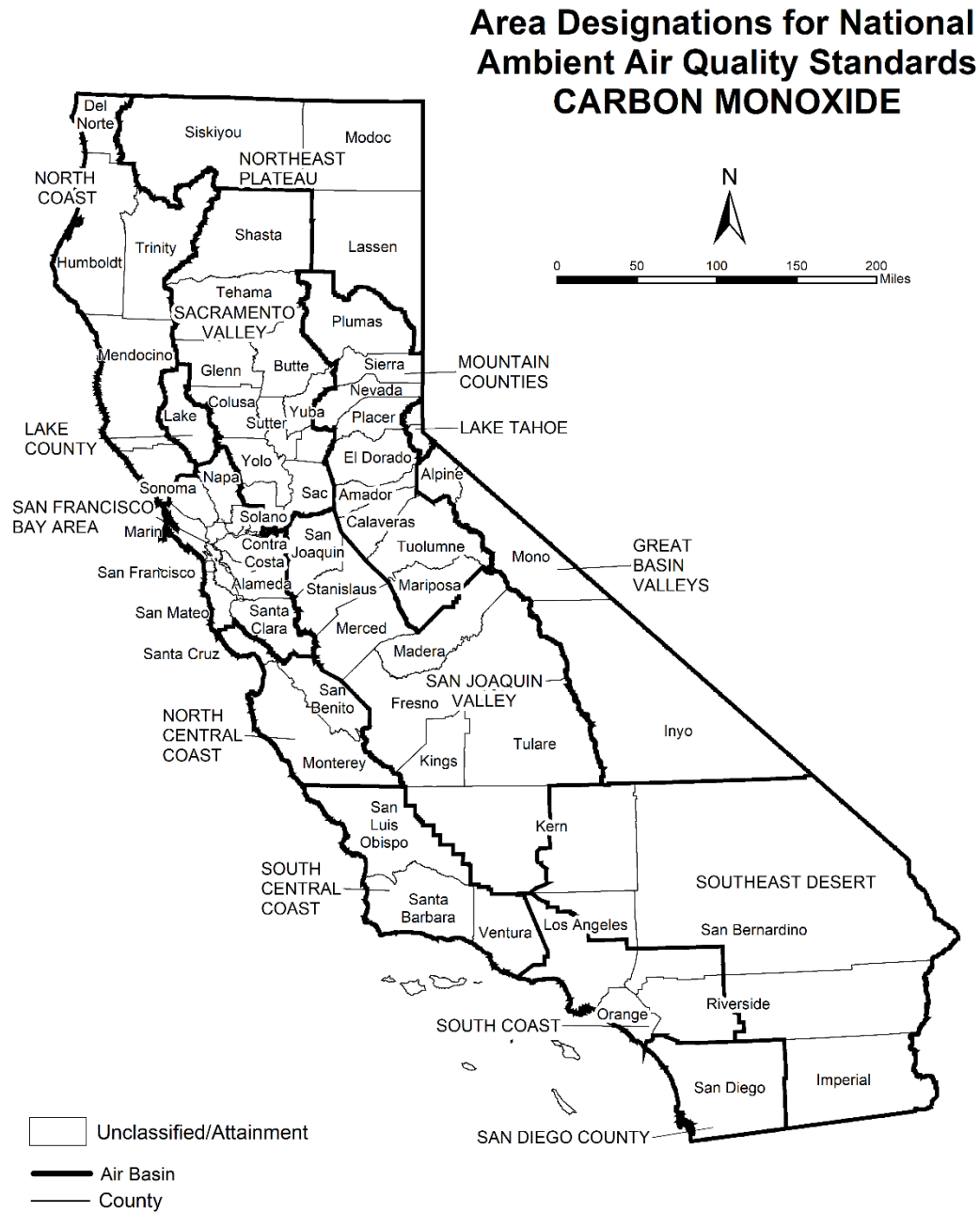
<sup>2</sup> Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.

<sup>3</sup> Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

<sup>4</sup> That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM<sub>2.5</sub> standards. A Determination of Attainment for the 2006 24-hour PM<sub>2.5</sub> standard was made by U.S. EPA in June 2017.



**Figure 14**



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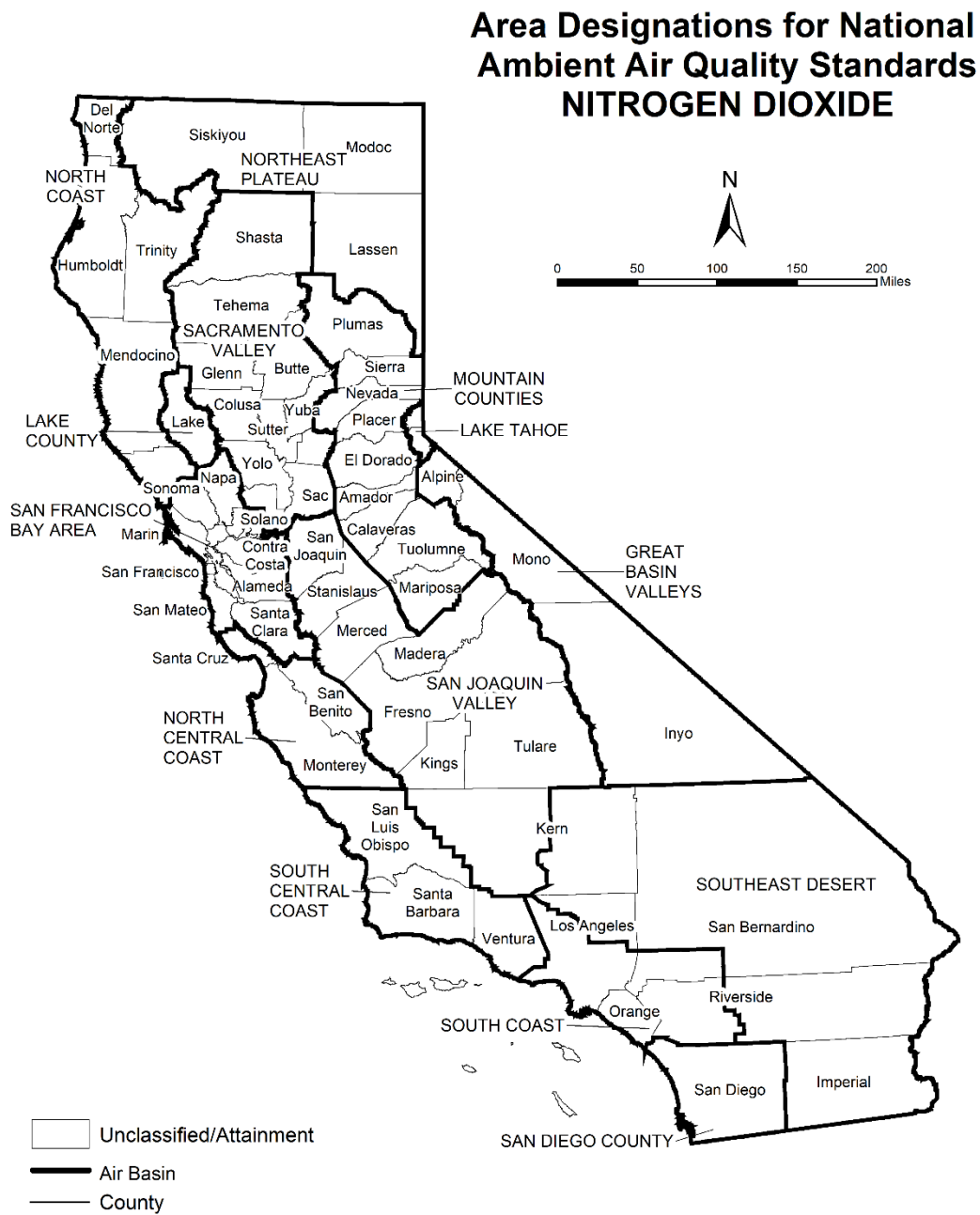
**Table 14**  
**National Ambient Air Quality Standards Area Designations for**  
**Carbon Monoxide\***

| Area                          | N | U/A |
|-------------------------------|---|-----|
| GREAT BASIN VALLEYS AIR BASIN |   | U/A |
| LAKE COUNTY AIR BASIN         |   | U/A |
| LAKE TAHOE AIR BASIN          |   | U/A |
| MOUNTAIN COUNTIES AIR BASIN   |   | U/A |
| NORTH CENTRAL COAST AIR BASIN |   | U/A |
| NORTH COAST AIR BASIN         |   | U/A |
| NORTHEAST PLATEAU AIR BASIN   |   | U/A |

| Area                             | N | U/A |
|----------------------------------|---|-----|
| SACRAMENTO VALLEY AIR BASIN      |   | U/A |
| SAN DIEGO COUNTY                 |   | U/A |
| SAN FRANCISCO BAY AREA AIR BASIN |   | U/A |
| SAN JOAQUIN VALLEY AIR BASIN     |   | U/A |
| SOUTH CENTRAL COAST AIR BASIN    |   | U/A |
| SOUTH COAST AIR BASIN            |   | U/A |
| SOUTHEAST DESERT AIR BASIN       |   | U/A |

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

**Figure 15**



Last Updated: November 2023  
Air Quality Planning and Science Division

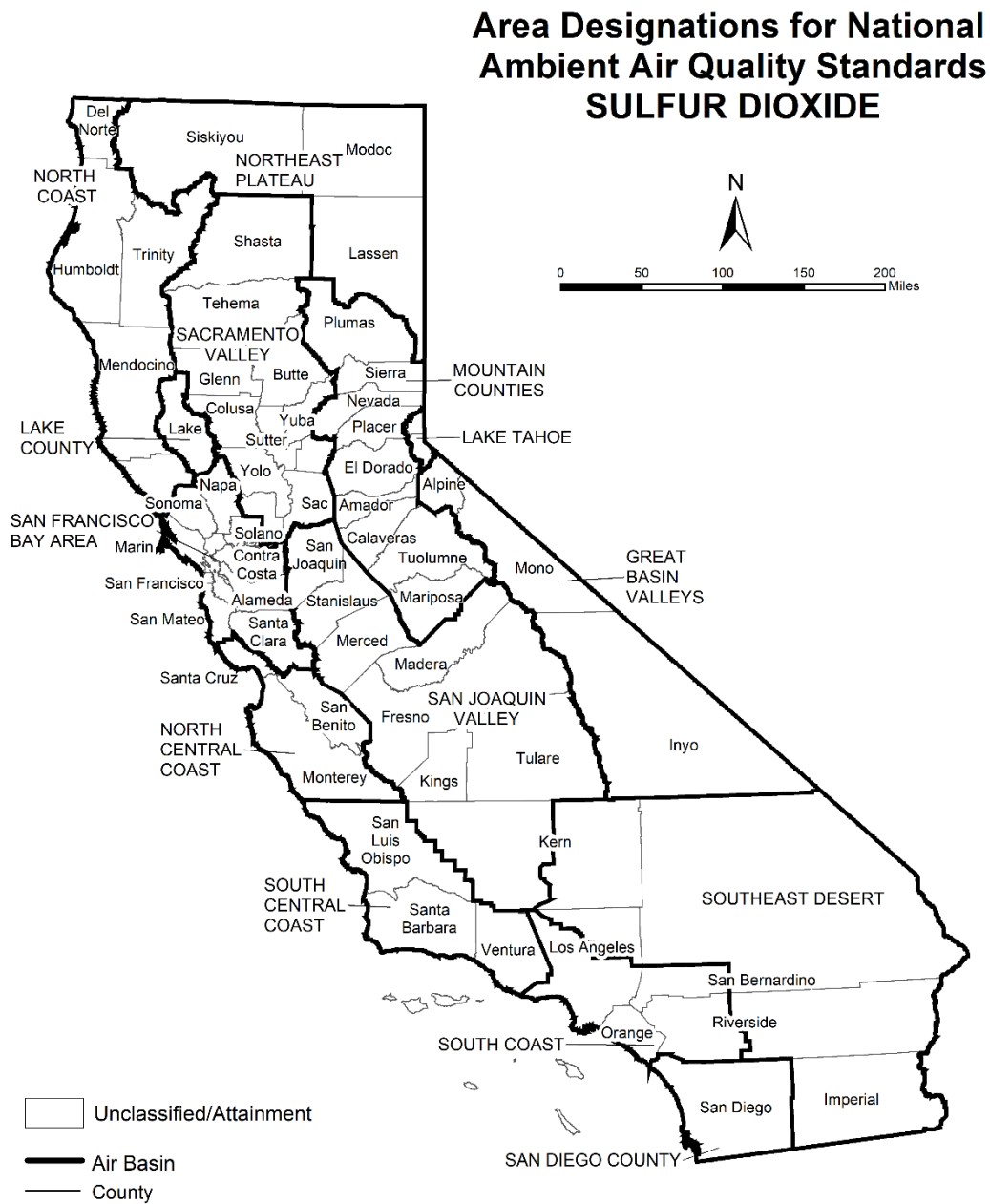
**Table 15**  
**National Ambient Air Quality Standards Area Designations for**  
**Nitrogen Dioxide\***

| Area                          | N | U/A |
|-------------------------------|---|-----|
| GREAT BASIN VALLEYS AIR BASIN |   | U/A |
| LAKE COUNTY AIR BASIN         |   | U/A |
| LAKE TAHOE AIR BASIN          |   | U/A |
| MOUNTAIN COUNTIES AIR BASIN   |   | U/A |
| NORTH CENTRAL COAST AIR BASIN |   | U/A |
| NORTH COAST AIR BASIN         |   | U/A |
| NORTHEAST PLATEAU AIR BASIN   |   | U/A |

| Area                             | N | U/A |
|----------------------------------|---|-----|
| SACRAMENTO VALLEY AIR BASIN      |   | U/A |
| SAN DIEGO COUNTY                 |   | U/A |
| SAN FRANCISCO BAY AREA AIR BASIN |   | U/A |
| SAN JOAQUIN VALLEY AIR BASIN     |   | U/A |
| SOUTH CENTRAL COAST AIR BASIN    |   | U/A |
| SOUTH COAST AIR BASIN            |   | U/A |
| SOUTHEAST DESERT AIR BASIN       |   | U/A |

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

**Figure 16**



Last Updated: November 2023  
Air Quality Planning and Science Division

**Table 16**  
**National Ambient Air Quality Standards Area Designations for Sulfur Dioxide\***

| Area                                       | N | U/A |
|--------------------------------------------|---|-----|
| GREAT BASIN VALLEYS AIR BASIN              |   | U/A |
| LAKE COUNTY AIR BASIN                      |   | U/A |
| LAKE TAHOE AIR BASIN                       |   | U/A |
| MOUNTAIN COUNTIES AIR BASIN                |   | U/A |
| NORTH CENTRAL COAST AIR BASIN              |   | U/A |
| NORTH COAST AIR BASIN                      |   | U/A |
| NORTHEAST PLATEAU AIR BASIN                |   | U/A |
| SACRAMENTO VALLEY AIR BASIN                |   | U/A |
| SAN DIEGO COUNTY                           |   | U/A |
| SAN FRANCISCO BAY AREA AIR BASIN           |   | U/A |
| SAN JOAQUIN VALLEY AIR BASIN               |   | U/A |
| SOUTH CENTRAL COAST AIR BASIN <sup>1</sup> |   | U/A |
| SOUTH COAST AIR BASIN                      |   | U/A |
| SOUTHEAST DESERT AIR BASIN                 |   | U/A |

\* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.  
 NOTE: This map and table reflect the 2010 1-hour SO<sub>2</sub> standard of 75 ppb.

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<sup>1</sup> South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.  
 Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

**Figure 17**



Last Updated: November 2023  
Air Quality Planning and Science Division

**Table 17**  
**National Ambient Air Quality Standards Area Designations for**  
**Lead (particulate)**

| Area                          | N | U/A |
|-------------------------------|---|-----|
| GREAT BASIN VALLEYS AIR BASIN |   | U/A |
| LAKE COUNTY AIR BASIN         |   | U/A |
| LAKE TAHOE AIR BASIN          |   | U/A |
| MOUNTAIN COUNTIES AIR BASIN   |   | U/A |
| NORTH CENTRAL COAST AIR BASIN |   | U/A |
| NORTH COAST AIR BASIN         |   | U/A |
| NORTHEAST PLATEAU AIR BASIN   |   | U/A |
| SACRAMENTO VALLEY AIR BASIN   |   | U/A |

| Area                                      | N | U/A |
|-------------------------------------------|---|-----|
| SAN DIEGO COUNTY                          |   | U/A |
| SAN FRANCISCO BAY AREA AIR BASIN          |   | U/A |
| SAN JOAQUIN VALLEY AIR BASIN              |   | U/A |
| SOUTH CENTRAL COAST AIR BASIN             |   | U/A |
| SOUTH COAST AIR BASIN                     |   |     |
| Los Angeles County (portion) <sup>1</sup> | N |     |
| Remainder of Air Basin                    |   | U/A |
| SOUTHEAST DESERT AIR BASIN                |   | U/A |

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<sup>1</sup> Portion of County in Air Basin, not including Channel Islands



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## **APPENDIX 3.1:**

### **CALEEMOD PROPOSED PROJECT EMISSIONS MODEL OUTPUTS**

# 15795 - Sequoia Commerce Center (Proposed) Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                      |
|-----------------------------|--------------------------------------------|
| Project Name                | 15795 - Sequoia Commerce Center (Proposed) |
| Construction Start Date     | 5/3/2027                                   |
| Operational Year            | 2028                                       |
| Lead Agency                 | —                                          |
| Land Use Scale              | Project/site                               |
| Analysis Level for Defaults | County                                     |
| Windspeed (m/s)             | 3.50                                       |
| Precipitation (days)        | 17.4                                       |
| Location                    | 2172 W 190th St, Torrance, CA 90501, USA   |
| County                      | Los Angeles-South Coast                    |
| City                        | Torrance                                   |
| Air District                | South Coast AQMD                           |
| Air Basin                   | South Coast                                |
| TAZ                         | 4669                                       |
| EDFZ                        | 7                                          |
| Electric Utility            | Southern California Edison                 |
| Gas Utility                 | Southern California Gas                    |
| App Version                 | 2022.1.1.28                                |

## 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 |
|------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Manufacturing    | 179  | 1000sqft | 4.11        | 179,000               | 53,300                 | —                              | —          | Trucks      |

|                                  |      |                   |      |        |        |   |   |        |
|----------------------------------|------|-------------------|------|--------|--------|---|---|--------|
| Unrefrigerated Warehouse-No Rail | 97.3 | 1000sqft          | 2.23 | 97,300 | 28,700 | — | — | Trucks |
| Other Asphalt Surfaces           | 4.03 | Acre              | 4.03 | 0.00   | 0.00   | — | — | —      |
| Parking Lot                      | 584  | Space             | 3.64 | 0.00   | 0.00   | — | — | —      |
| User Defined Industrial          | 276  | User Defined Unit | 0.00 | 0.00   | 0.00   | — | — | PC     |

### 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.              | 49.7 | 49.3 | 32.9 | 34.7 | 0.10    | 1.62  | 6.52  | 7.53  | 1.49   | 2.74   | 4.24   | —    | 13,791 | 13,791 | 0.65 | 1.69 | 22.3 | 14,331 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 47.9 | 47.5 | 12.4 | 22.7 | 0.04    | 0.37  | 2.11  | 2.46  | 0.34   | 0.51   | 0.83   | —    | 5,547  | 5,547  | 0.17 | 0.23 | 0.20 | 5,621  |
| Average Daily (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.31 | 4.22 | 8.88 | 11.2 | 0.02    | 0.32  | 1.35  | 1.67  | 0.30   | 0.38   | 0.68   | —    | 3,147  | 3,147  | 0.12 | 0.17 | 1.60 | 3,203  |
| Annual (Max)        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.79 | 0.77 | 1.62 | 2.04 | < 0.005 | 0.06  | 0.25  | 0.31  | 0.05   | 0.07   | 0.12   | —    | 521    | 521    | 0.02 | 0.03 | 0.26 | 530    |

## 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) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2027                 | 4.41 | 3.71 | 32.9 | 31.5 | 0.10    | 1.62  | 6.52  | 7.53  | 1.49   | 2.74   | 4.24   | —    | 13,791 | 13,791 | 0.65 | 1.69 | 22.3 | 14,331 |
| 2028                 | 49.7 | 49.3 | 19.0 | 34.7 | 0.05    | 0.61  | 2.31  | 2.92  | 0.56   | 0.55   | 1.11   | —    | 7,348  | 7,348  | 0.23 | 0.25 | 8.31 | 7,437  |
| Daily - Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2027                 | 1.86 | 1.55 | 11.8 | 20.5 | 0.03    | 0.37  | 1.81  | 2.18  | 0.34   | 0.44   | 0.78   | —    | 5,132  | 5,132  | 0.17 | 0.22 | 0.19 | 5,202  |
| 2028                 | 47.9 | 47.5 | 12.4 | 22.7 | 0.04    | 0.35  | 2.11  | 2.46  | 0.33   | 0.51   | 0.83   | —    | 5,547  | 5,547  | 0.17 | 0.23 | 0.20 | 5,621  |
| Average Daily        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2027                 | 1.23 | 1.01 | 8.88 | 11.2 | 0.02    | 0.32  | 1.35  | 1.67  | 0.30   | 0.38   | 0.68   | —    | 3,147  | 3,147  | 0.12 | 0.17 | 1.60 | 3,203  |
| 2028                 | 4.31 | 4.22 | 3.08 | 5.55 | 0.01    | 0.09  | 0.45  | 0.54  | 0.09   | 0.11   | 0.19   | —    | 1,320  | 1,320  | 0.04 | 0.05 | 0.74 | 1,338  |
| Annual               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2027                 | 0.23 | 0.18 | 1.62 | 2.04 | < 0.005 | 0.06  | 0.25  | 0.31  | 0.05   | 0.07   | 0.12   | —    | 521    | 521    | 0.02 | 0.03 | 0.26 | 530    |
| 2028                 | 0.79 | 0.77 | 0.56 | 1.01 | < 0.005 | 0.02  | 0.08  | 0.10  | 0.02   | 0.02   | 0.04   | —    | 219    | 219    | 0.01 | 0.01 | 0.12 | 221    |

## 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.              | 15.7 | 14.5 | 22.4 | 51.6 | 0.19 | 0.71  | 10.1  | 10.8  | 0.69   | 2.61   | 3.30   | 291  | 22,577 | 22,868 | 30.5 | 2.22 | 62.7 | 24,355 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |      |      |      |      |      |      |      |      |      |      |      |      |        |        |      |      |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|
| Unmit.              | 13.6 | 12.5 | 22.9 | 37.3 | 0.18 | 0.69 | 10.1 | 10.7 | 0.68 | 2.61 | 3.28 | 291  | 22,235 | 22,526 | 30.5 | 2.24 | 17.9 | 23,972 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 11.1 | 10.4 | 12.1 | 32.4 | 0.13 | 0.24 | 7.70 | 7.94 | 0.23 | 1.99 | 2.23 | 291  | 16,797 | 17,089 | 30.2 | 1.78 | 32.0 | 18,409 |
| Annual (Max)        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 2.02 | 1.89 | 2.20 | 5.91 | 0.02 | 0.04 | 1.41 | 1.45 | 0.04 | 0.36 | 0.41 | 48.2 | 2,781  | 2,829  | 5.01 | 0.30 | 5.30 | 3,048  |

## 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              | 3.63 | 2.91 | 12.9 | 31.1 | 0.17    | 0.19  | 10.1  | 10.2  | 0.18   | 2.61   | 2.79   | —    | 17,994 | 17,994 | 0.68    | 1.88    | 45.9 | 18,618 |
| Area                | 8.45 | 8.29 | 0.10 | 12.0 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 49.4   | 49.4   | < 0.005 | < 0.005 | —    | 49.6   |
| Energy              | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 2,436  | 2,436  | 0.23    | 0.03    | —    | 2,449  |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 122  | 418    | 541    | 12.6    | 0.30    | —    | 946    |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 169  | 0.00   | 169    | 16.9    | 0.00    | —    | 591    |
| Refrig.             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | 16.7 | 16.7   |
| Stationary          | 3.61 | 3.28 | 9.17 | 8.37 | 0.02    | 0.48  | 0.00  | 0.48  | 0.48   | 0.00   | 0.48   | 0.00 | 1,679  | 1,679  | 0.07    | 0.01    | 0.00 | 1,685  |
| Total               | 15.7 | 14.5 | 22.4 | 51.6 | 0.19    | 0.71  | 10.1  | 10.8  | 0.69   | 2.61   | 3.30   | 291  | 22,577 | 22,868 | 30.5    | 2.22    | 62.7 | 24,355 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 3.61 | 2.89 | 13.6 | 28.7 | 0.17    | 0.19  | 10.1  | 10.2  | 0.18   | 2.61   | 2.79   | —    | 17,701 | 17,701 | 0.69    | 1.90    | 1.19 | 18,285 |
| Area                | 6.32 | 6.32 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| Energy              | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 2,436  | 2,436  | 0.23    | 0.03    | —    | 2,449  |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 122  | 418    | 541    | 12.6    | 0.30    | —    | 946    |

|               |         |         |      |      |         |         |      |         |         |      |         |      |        |        |         |         |      |        |
|---------------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|--------|--------|---------|---------|------|--------|
| Waste         | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 169  | 0.00   | 169    | 16.9    | 0.00    | —    | 591    |
| Refrig.       | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 16.7 | 16.7   |
| Stationary    | 3.61    | 3.28    | 9.17 | 8.37 | 0.02    | 0.48    | 0.00 | 0.48    | 0.48    | 0.00 | 0.48    | 0.00 | 1,679  | 1,679  | 0.07    | 0.01    | 0.00 | 1,685  |
| Total         | 13.6    | 12.5    | 22.9 | 37.3 | 0.18    | 0.69    | 10.1 | 10.7    | 0.68    | 2.61 | 3.28    | 291  | 22,235 | 22,526 | 30.5    | 2.24    | 17.9 | 23,972 |
| Average Daily | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile        | 2.79    | 2.24    | 10.5 | 22.8 | 0.13    | 0.14    | 7.70 | 7.85    | 0.14    | 1.99 | 2.13    | —    | 13,679 | 13,679 | 0.53    | 1.45    | 15.3 | 14,141 |
| Area          | 7.78    | 7.67    | 0.07 | 8.23 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 33.8   | 33.8   | < 0.005 | < 0.005 | —    | 34.0   |
| Energy        | 0.02    | 0.01    | 0.20 | 0.17 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | —    | 2,436  | 2,436  | 0.23    | 0.03    | —    | 2,449  |
| Water         | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 122  | 418    | 541    | 12.6    | 0.30    | —    | 946    |
| Waste         | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 169  | 0.00   | 169    | 16.9    | 0.00    | —    | 591    |
| Refrig.       | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 16.7 | 16.7   |
| Stationary    | 0.49    | 0.45    | 1.26 | 1.15 | < 0.005 | 0.07    | 0.00 | 0.07    | 0.07    | 0.00 | 0.07    | 0.00 | 230    | 230    | 0.01    | < 0.005 | 0.00 | 231    |
| Total         | 11.1    | 10.4    | 12.1 | 32.4 | 0.13    | 0.24    | 7.70 | 7.94    | 0.23    | 1.99 | 2.23    | 291  | 16,797 | 17,089 | 30.2    | 1.78    | 32.0 | 18,409 |
| Annual        | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile        | 0.51    | 0.41    | 1.92 | 4.17 | 0.02    | 0.03    | 1.41 | 1.43    | 0.03    | 0.36 | 0.39    | —    | 2,265  | 2,265  | 0.09    | 0.24    | 2.53 | 2,341  |
| Area          | 1.42    | 1.40    | 0.01 | 1.50 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 5.60   | 5.60   | < 0.005 | < 0.005 | —    | 5.62   |
| Energy        | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 403    | 403    | 0.04    | < 0.005 | —    | 406    |
| Water         | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 20.3 | 69.3   | 89.5   | 2.09    | 0.05    | —    | 157    |
| Waste         | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 28.0 | 0.00   | 28.0   | 2.80    | 0.00    | —    | 97.8   |
| Refrig.       | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 2.77 | 2.77   |
| Stationary    | 0.09    | 0.08    | 0.23 | 0.21 | < 0.005 | 0.01    | 0.00 | 0.01    | 0.01    | 0.00 | 0.01    | 0.00 | 38.1   | 38.1   | < 0.005 | < 0.005 | 0.00 | 38.2   |
| Total         | 2.02    | 1.89    | 2.20 | 5.91 | 0.02    | 0.04    | 1.41 | 1.45    | 0.04    | 0.36 | 0.41    | 48.2 | 2,781  | 2,829  | 5.01    | 0.30    | 5.30 | 3,048  |

### 3. Construction Emissions Details

## 3.1. Demolition (2027) - 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  | 2.64 | 2.21 | 19.9 | 18.6 | 0.03    | 0.80  | —     | 0.80  | 0.73   | —      | 0.73   | —    | 3,427 | 3,427 | 0.14    | 0.03    | —    | 3,439 |
| Demolition          | —    | —    | —    | —    | —       | —     | 3.49  | 3.49  | —      | 0.53   | 0.53   | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.15 | 0.13 | 1.14 | 1.07 | < 0.005 | 0.05  | —     | 0.05  | 0.04   | —      | 0.04   | —    | 197   | 197   | 0.01    | < 0.005 | —    | 198   |
| Demolition          | —    | —    | —    | —    | —       | —     | 0.20  | 0.20  | —      | 0.03   | 0.03   | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.03 | 0.02 | 0.21 | 0.20 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 32.6  | 32.6  | < 0.005 | < 0.005 | —    | 32.8  |
| Demolition          | —    | —    | —    | —    | —       | —     | 0.04  | 0.04  | —      | 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) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker              | 0.06    | 0.05    | 0.05    | 0.90    | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 199    | 199    | 0.01    | 0.01    | 0.62    | 202    |
| Vendor              | 0.01    | < 0.005 | 0.13    | 0.06    | < 0.005 | < 0.005 | 0.03    | 0.04    | < 0.005 | 0.01    | 0.01    | — | 122    | 122    | 0.01    | 0.02    | 0.32    | 128    |
| Hauling             | 0.74    | 0.16    | 11.9    | 4.72    | 0.07    | 0.13    | 2.79    | 2.93    | 0.13    | 0.76    | 0.90    | — | 10,042 | 10,042 | 0.50    | 1.63    | 21.4    | 10,563 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.05    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 11.0   | 11.0   | < 0.005 | < 0.005 | 0.02    | 11.2   |
| Vendor              | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 7.04   | 7.04   | < 0.005 | < 0.005 | 0.01    | 7.34   |
| Hauling             | 0.04    | 0.01    | 0.72    | 0.27    | < 0.005 | 0.01    | 0.16    | 0.17    | 0.01    | 0.04    | 0.05    | — | 578    | 578    | 0.03    | 0.09    | 0.53    | 607    |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.83   | 1.83   | < 0.005 | < 0.005 | < 0.005 | 1.85   |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.17   | 1.17   | < 0.005 | < 0.005 | < 0.005 | 1.22   |
| Hauling             | 0.01    | < 0.005 | 0.13    | 0.05    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 95.7   | 95.7   | < 0.005 | 0.02    | 0.09    | 101    |

### 3.3. Site Preparation (2027) - 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 Equipm ent         | 4.34 | 3.65 | 32.7 | 30.4 | 0.05    | 1.62 | —    | 1.62 | 1.49 | —    | 1.49 | — | 5,533 | 5,533 | 0.22    | 0.04    | —    | 5,552 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 5.66 | 5.66 | —    | 2.69 | 2.69 | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipm ent         | 0.13 | 0.11 | 0.99 | 0.92 | < 0.005 | 0.05 | —    | 0.05 | 0.04 | —    | 0.04 | — | 167   | 167   | 0.01    | < 0.005 | —    | 167   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.17 | 0.17 | —    | 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 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipm ent         | 0.02 | 0.02 | 0.18 | 0.17 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 27.6  | 27.6  | < 0.005 | < 0.005 | —    | 27.7  |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.03 | 0.03 | —    | 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) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.07    | 0.06    | 0.06    | 1.05    | 0.00    | 0.00    | 0.23    | 0.23    | 0.00    | 0.05    | 0.05    | — | 233  | 233  | 0.01    | 0.01    | 0.72    | 236  |
| Vendor              | < 0.005 | < 0.005 | 0.07    | 0.03    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 61.1 | 61.1 | < 0.005 | 0.01    | 0.16    | 63.9 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 6.74 | 6.74 | < 0.005 | < 0.005 | 0.01    | 6.83 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.84 | 1.84 | < 0.005 | < 0.005 | < 0.005 | 1.92 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.12 | 1.12 | < 0.005 | < 0.005 | < 0.005 | 1.13 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.31 | 0.31 | < 0.005 | < 0.005 | < 0.005 | 0.32 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.5. Grading (2027) - 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  | 3.86 | 3.24 | 28.0 | 28.3 | 0.06 | 1.27  | —     | 1.27  | 1.17   | —      | 1.17   | —    | 6,716 | 6,716 | 0.27 | 0.05 | — | 6,739 |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |      |      |         |         |      |      |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|------|------|---------|---------|------|------|
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 2.67 | 2.67 | —    | 0.98 | 0.98 | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.33 | 0.28 | 2.38 | 2.41 | 0.01    | 0.11 | —    | 0.11 | 0.10 | —    | 0.10 | — | 570  | 570  | 0.02    | < 0.005 | —    | 572  |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.23 | 0.23 | —    | 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 | 0.00 |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.06 | 0.05 | 0.43 | 0.44 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 94.4 | 94.4 | < 0.005 | < 0.005 | —    | 94.8 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.04 | 0.04 | —    | 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                      | 0.08 | 0.07 | 0.07 | 1.20 | 0.00    | 0.00 | 0.26 | 0.26 | 0.00 | 0.06 | 0.06 | — | 266  | 266  | 0.01    | 0.01    | 0.83 | 270  |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor              | 0.01    | < 0.005 | 0.16    | 0.08    | < 0.005 | < 0.005 | 0.04    | 0.04    | < 0.005 | 0.01    | 0.01    | — | 153  | 153  | 0.01    | 0.02    | 0.40    | 160  |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.01    | 0.09    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 21.7 | 21.7 | < 0.005 | < 0.005 | 0.03    | 22.0 |
| Vendor              | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 13.0 | 13.0 | < 0.005 | < 0.005 | 0.01    | 13.5 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.60 | 3.60 | < 0.005 | < 0.005 | 0.01    | 3.64 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.15 | 2.15 | < 0.005 | < 0.005 | < 0.005 | 2.24 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.7. Building Construction (2027) - 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  | 1.33 | 1.11 | 10.2 | 14.0 | 0.03 | 0.36  | —     | 0.36  | 0.34   | —      | 0.34   | —    | 2,630 | 2,630 | 0.11 | 0.02 | —    | 2,639 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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            | 1.33 | 1.11 | 10.2 | 14.0 | 0.03    | 0.36 | —    | 0.36 | 0.34 | —    | 0.34 | — | 2,630 | 2,630 | 0.11 | 0.02    | —    | 2,639 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 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  | 0.41 | 0.34 | 3.11 | 4.29 | 0.01    | 0.11 | —    | 0.11 | 0.10 | —    | 0.10 | — | 803   | 803   | 0.03 | 0.01    | —    | 806   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 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  | 0.07 | 0.06 | 0.57 | 0.78 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 133   | 133   | 0.01 | < 0.005 | —    | 133   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 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              | 0.47 | 0.41 | 0.40 | 6.97 | 0.00    | 0.00 | 1.52 | 1.52 | 0.00 | 0.36 | 0.36 | — | 1,542 | 1,542 | 0.07 | 0.06    | 4.81 | 1,565 |
| Vendor              | 0.07 | 0.03 | 1.12 | 0.53 | 0.01    | 0.01 | 0.29 | 0.30 | 0.01 | 0.08 | 0.09 | — | 1,040 | 1,040 | 0.04 | 0.14    | 2.71 | 1,086 |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 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              | 0.46 | 0.40 | 0.50 | 5.91 | 0.00    | 0.00 | 1.52 | 1.52 | 0.00 | 0.36 | 0.36 | — | 1,462 | 1,462 | 0.02 | 0.06    | 0.12 | 1,479 |
| Vendor              | 0.07 | 0.03 | 1.16 | 0.55 | 0.01    | 0.01 | 0.29 | 0.30 | 0.01 | 0.08 | 0.09 | — | 1,040 | 1,040 | 0.04 | 0.14    | 0.07 | 1,084 |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 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  | 0.14    | 0.12    | 0.15 | 1.89 | 0.00    | 0.00    | 0.46 | 0.46 | 0.00    | 0.11    | 0.11    | — | 453  | 453  | 0.01    | 0.02    | 0.63 | 459  |
| Vendor  | 0.02    | 0.01    | 0.36 | 0.16 | < 0.005 | < 0.005 | 0.09 | 0.09 | < 0.005 | 0.02    | 0.03    | — | 317  | 317  | 0.01    | 0.04    | 0.36 | 331  |
| Hauling | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual  | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker  | 0.03    | 0.02    | 0.03 | 0.35 | 0.00    | 0.00    | 0.08 | 0.08 | 0.00    | 0.02    | 0.02    | — | 75.0 | 75.0 | < 0.005 | < 0.005 | 0.10 | 75.9 |
| Vendor  | < 0.005 | < 0.005 | 0.07 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 52.6 | 52.6 | < 0.005 | 0.01    | 0.06 | 54.8 |
| Hauling | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.9. Building Construction (2028) - Unmitigated

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

| Location            | 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  | 1.28 | 1.07 | 9.66 | 14.0 | 0.03 | 0.33  | —     | 0.33  | 0.30   | —      | 0.30   | —    | 2,630 | 2,630 | 0.11 | 0.02 | —    | 2,639 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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  | 1.28 | 1.07 | 9.66 | 14.0 | 0.03 | 0.33  | —     | 0.33  | 0.30   | —      | 0.30   | —    | 2,630 | 2,630 | 0.11 | 0.02 | —    | 2,639 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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            | 0.30    | 0.25    | 2.25 | 3.27 | 0.01    | 0.08    | —    | 0.08 | 0.07    | —       | 0.07    | — | 612   | 612   | 0.02    | < 0.005 | —    | 615   |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 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    | 0.05    | 0.41 | 0.60 | < 0.005 | 0.01    | —    | 0.01 | 0.01    | —       | 0.01    | — | 101   | 101   | < 0.005 | < 0.005 | —    | 102   |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 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              | 0.45    | 0.40    | 0.40 | 6.55 | 0.00    | 0.00    | 1.52 | 1.52 | 0.00    | 0.36    | 0.36    | — | 1,515 | 1,515 | 0.02    | 0.06    | 4.32 | 1,536 |
| Vendor              | 0.07    | 0.02    | 1.07 | 0.51 | 0.01    | 0.01    | 0.29 | 0.30 | 0.01    | 0.08    | 0.09    | — | 1,015 | 1,015 | 0.04    | 0.14    | 2.57 | 1,061 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.45    | 0.39    | 0.45 | 5.57 | 0.00    | 0.00    | 1.52 | 1.52 | 0.00    | 0.36    | 0.36    | — | 1,436 | 1,436 | 0.02    | 0.06    | 0.11 | 1,453 |
| Vendor              | 0.07    | 0.02    | 1.11 | 0.52 | 0.01    | 0.01    | 0.29 | 0.30 | 0.01    | 0.08    | 0.09    | — | 1,016 | 1,016 | 0.04    | 0.14    | 0.07 | 1,060 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 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              | 0.10    | 0.09    | 0.10 | 1.36 | 0.00    | 0.00    | 0.35 | 0.35 | 0.00    | 0.08    | 0.08    | — | 339   | 339   | < 0.005 | 0.01    | 0.44 | 344   |
| Vendor              | 0.02    | 0.01    | 0.26 | 0.12 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02    | 0.02    | — | 236   | 236   | 0.01    | 0.03    | 0.26 | 247   |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.02    | 0.02    | 0.02 | 0.25 | 0.00    | 0.00    | 0.06 | 0.06 | 0.00    | 0.01    | 0.01    | — | 56.2  | 56.2  | < 0.005 | < 0.005 | 0.07 | 56.9  |
| Vendor              | < 0.005 | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 39.2  | 39.2  | < 0.005 | 0.01    | 0.04 | 40.9  |

|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|

### 3.11. Paving (2028) - 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  | 0.82 | 0.69 | 6.63 | 9.91 | 0.01    | 0.26    | —     | 0.26    | 0.24    | —      | 0.24    | —    | 1,511 | 1,511 | 0.06    | 0.01    | —    | 1,516 |
| Paving              | 1.00 | 1.00 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04 | 0.04 | 0.36 | 0.54 | < 0.005 | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 82.8  | 82.8  | < 0.005 | < 0.005 | —    | 83.1  |
| Paving              | 0.06 | 0.06 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01 | 0.01 | 0.07 | 0.10 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 13.7  | 13.7  | < 0.005 | < 0.005 | —    | 13.8  |
| Paving              | 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) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.06    | 0.05    | 0.05    | 0.85 | 0.00 | 0.00 | 0.20    | 0.20    | 0.00 | 0.05    | 0.05    | — | 196  | 196  | < 0.005 | 0.01    | 0.56    | 198  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01    | 0.01    | 0.00 | < 0.005 | < 0.005 | — | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.01    | 10.5 |
| 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 | — | 1.71 | 1.71 | < 0.005 | < 0.005 | < 0.005 | 1.73 |
| 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 (2028) - 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 | 1.08 | 1.49 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 178  | 178  | 0.01    | < 0.005 | —    | 179  |
| Architectural Coatings | 45.8 | 45.8 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| 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 | 1.08 | 1.49 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 178  | 178  | 0.01    | < 0.005 | —    | 179  |
| Architectural Coatings | 45.8 | 45.8 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| 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     | 0.01 | 0.01 | 0.09 | 0.12 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 14.6 | 14.6 | < 0.005 | < 0.005 | —    | 14.7 |
| Architectural Coatings | 3.76 | 3.76 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                 | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |

|                        |         |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|------------------------|---------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Off-Road Equipm        | < 0.005 | < 0.005 | 0.02    | 0.02 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 2.42 | 2.42 | < 0.005 | < 0.005 | —    | 2.43 |
| Architectural Coatings | 0.69    | 0.69    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| 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 |
| Offsite                | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)    | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | 0.09    | 0.08    | 0.08    | 1.31 | 0.00    | 0.00    | 0.30    | 0.30    | 0.00    | 0.07    | 0.07    | — | 303  | 303  | < 0.005 | 0.01    | 0.86 | 307  |
| 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                 | 0.09    | 0.08    | 0.09    | 1.11 | 0.00    | 0.00    | 0.30    | 0.30    | 0.00    | 0.07    | 0.07    | — | 287  | 287  | < 0.005 | 0.01    | 0.02 | 291  |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily          | —       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                 | 0.01    | 0.01    | 0.01    | 0.10 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 24.0 | 24.0 | < 0.005 | < 0.005 | 0.03 | 24.3 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 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 | — | 3.97 | 3.97 | < 0.005 | < 0.005 | 0.01 | 4.02 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 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)              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Manufacturing                    | 0.42 | 0.15 | 6.69 | 3.01 | 0.06 | 0.09  | 2.25  | 2.34  | 0.09   | 0.60   | 0.69   | —    | 6,935  | 6,935  | 0.26 | 1.00 | 17.6 | 7,257  |
| Unrefrigerated Warehouse-No Rail | 0.31 | 0.10 | 4.90 | 2.19 | 0.05 | 0.07  | 1.63  | 1.70  | 0.06   | 0.44   | 0.50   | —    | 5,038  | 5,038  | 0.19 | 0.73 | 12.7 | 5,274  |
| Other Asphalt Surfaces           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| 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   |
| User Defined Industrial          | 2.90 | 2.66 | 1.34 | 25.9 | 0.06 | 0.03  | 6.18  | 6.21  | 0.03   | 1.56   | 1.59   | —    | 6,021  | 6,021  | 0.23 | 0.15 | 15.6 | 6,087  |
| Total                            | 3.63 | 2.91 | 12.9 | 31.1 | 0.17 | 0.19  | 10.1  | 10.2  | 0.18   | 2.61   | 2.79   | —    | 17,994 | 17,994 | 0.68 | 1.88 | 45.9 | 18,618 |
| Daily, Winter (Max)              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Manufacturing                    | 0.41 | 0.14 | 6.96 | 3.03 | 0.06 | 0.09  | 2.25  | 2.34  | 0.09   | 0.60   | 0.69   | —    | 6,936  | 6,936  | 0.26 | 1.00 | 0.46 | 7,242  |

|                                                |      |      |      |      |      |         |      |      |         |      |      |   |        |        |      |      |      |        |
|------------------------------------------------|------|------|------|------|------|---------|------|------|---------|------|------|---|--------|--------|------|------|------|--------|
| Unrefrig<br>erated<br>Wareho<br>use-No         | 0.30 | 0.10 | 5.09 | 2.20 | 0.05 | 0.07    | 1.63 | 1.70 | 0.06    | 0.44 | 0.50 | — | 5,040  | 5,040  | 0.19 | 0.73 | 0.33 | 5,263  |
| Other<br>Asphalt<br>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   |
| Parking<br>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   |
| User<br>Defined<br>Industrial                  | 2.89 | 2.65 | 1.52 | 23.5 | 0.06 | 0.03    | 6.18 | 6.21 | 0.03    | 1.56 | 1.59 | — | 5,725  | 5,725  | 0.24 | 0.16 | 0.41 | 5,780  |
| Total                                          | 3.61 | 2.89 | 13.6 | 28.7 | 0.17 | 0.19    | 10.1 | 10.2 | 0.18    | 2.61 | 2.79 | — | 17,701 | 17,701 | 0.69 | 1.90 | 1.19 | 18,285 |
| Annual                                         | —    | —    | —    | —    | —    | —       | —    | —    | —       | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Manufac<br>turing                              | 0.06 | 0.02 | 1.01 | 0.43 | 0.01 | 0.01    | 0.32 | 0.33 | 0.01    | 0.09 | 0.10 | — | 906    | 906    | 0.03 | 0.13 | 0.99 | 946    |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail | 0.04 | 0.01 | 0.69 | 0.29 | 0.01 | 0.01    | 0.22 | 0.23 | 0.01    | 0.06 | 0.07 | — | 610    | 610    | 0.02 | 0.09 | 0.67 | 638    |
| Other<br>Asphalt<br>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   |
| Parking<br>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   |
| User<br>Defined<br>Industrial                  | 0.41 | 0.37 | 0.22 | 3.44 | 0.01 | < 0.005 | 0.87 | 0.87 | < 0.005 | 0.22 | 0.22 | — | 749    | 749    | 0.03 | 0.02 | 0.87 | 757    |
| Total                                          | 0.51 | 0.41 | 1.92 | 4.17 | 0.02 | 0.03    | 1.41 | 1.43 | 0.03    | 0.36 | 0.39 | — | 2,265  | 2,265  | 0.09 | 0.24 | 2.53 | 2,341  |

## 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)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |
| Manufacturing                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1,629 | 1,629 | 0.16 | 0.02    | — | 1,638 |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 432   | 432   | 0.04 | < 0.005 | — | 434   |
| Other Asphalt Surfaces           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 132   | 132   | 0.01 | < 0.005 | — | 133   |
| User Defined Industrial          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,192 | 2,192 | 0.21 | 0.03    | — | 2,205 |
| Daily, Winter (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |
| Manufacturing                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1,629 | 1,629 | 0.16 | 0.02    | — | 1,638 |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 432   | 432   | 0.04 | < 0.005 | — | 434   |
| Other Asphalt Surfaces           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 132   | 132   | 0.01 | < 0.005 | — | 133   |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |       |       |         |         |   |       |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|---------|---------|---|-------|
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00    | 0.00    | — | 0.00  |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | — | 2,192 | 2,192 | 0.21    | 0.03    | — | 2,205 |
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —       | —       | — | —     |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | — | 270   | 270   | 0.03    | < 0.005 | — | 271   |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 71.5  | 71.5  | 0.01    | < 0.005 | — | 71.9  |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00    | 0.00    | — | 0.00  |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | — | 21.8  | 21.8  | < 0.005 | < 0.005 | — | 21.9  |
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00    | 0.00    | — | 0.00  |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | — | 363   | 363   | 0.03    | < 0.005 | — | 365   |

#### 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)              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Manufacturing                    | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 244   | 244  | 0.02 | < 0.005 | — | 244  |
| Unrefrigerated Warehouse-No Rail | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | — | 0.00 |

|                                  |         |         |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|----------------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Other Asphalt Surfaces           | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| 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 |
| User Defined Industrial          | 0.00    | 0.00    | 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                            | 0.02    | 0.01    | 0.20 | 0.17 | < 0.005 | 0.02    | — | 0.02    | 0.02    | — | 0.02    | — | 244  | 244  | 0.02    | < 0.005 | — | 244  |
| Daily, Winter (Max)              | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Manufacturing                    | 0.02    | 0.01    | 0.20 | 0.17 | < 0.005 | 0.02    | — | 0.02    | 0.02    | — | 0.02    | — | 244  | 244  | 0.02    | < 0.005 | — | 244  |
| Unrefrigerated Warehouse-No Rail | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| Other Asphalt Surfaces           | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| 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 |
| User Defined Industrial          | 0.00    | 0.00    | 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                            | 0.02    | 0.01    | 0.20 | 0.17 | < 0.005 | 0.02    | — | 0.02    | 0.02    | — | 0.02    | — | 244  | 244  | 0.02    | < 0.005 | — | 244  |
| Annual                           | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Manufacturing                    | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 40.3 | 40.3 | < 0.005 | < 0.005 | — | 40.5 |
| Unrefrigerated Warehouse-No Rail | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |

|                         |         |         |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|-------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Other Asphalt Surfaces  | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 |
| 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 |
| User Defined Industrial | 0.00    | 0.00    | 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                   | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 40.3 | 40.3 | < 0.005 | < 0.005 | — | 40.5 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

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

| Source                 | 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      | 5.94 | 5.94 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Architectural Coatings | 0.38 | 0.38 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Landscape Equipment    | 2.14 | 1.97 | 0.10 | 12.0 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 49.4  | 49.4 | < 0.005 | < 0.005 | — | 49.6 |
| Total                  | 8.45 | 8.29 | 0.10 | 12.0 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 49.4  | 49.4 | < 0.005 | < 0.005 | — | 49.6 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |



|                        |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Consumer               | 5.94 | 5.94 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 0.38 | 0.38 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                  | 6.32 | 6.32 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | 1.08 | 1.08 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 0.07 | 0.07 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.27 | 0.25 | 0.01 | 1.50 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.60 | 5.60 | < 0.005 | < 0.005 | — | 5.62 |
| Total                  | 1.42 | 1.40 | 0.01 | 1.50 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.60 | 5.60 | < 0.005 | < 0.005 | — | 5.62 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

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

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Manufacturing       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 79.3 | 271   | 350  | 8.16 | 0.20 | — | 613  |

|                                                |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Unrefrig<br>erated<br>Wareho<br>Rail           | — | — | — | — | — | — | — | — | — | — | — | 43.1 | 147  | 190  | 4.44 | 0.11 | — | 333  |
| Other<br>Asphalt<br>Surfaces                   | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                                 | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User<br>Defined<br>Industrial                  | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                          | — | — | — | — | — | — | — | — | — | — | — | 122  | 418  | 541  | 12.6 | 0.30 | — | 946  |
| Daily,<br>Winter<br>(Max)                      | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufac<br>turing                              | — | — | — | — | — | — | — | — | — | — | — | 79.3 | 271  | 350  | 8.16 | 0.20 | — | 613  |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail | — | — | — | — | — | — | — | — | — | — | — | 43.1 | 147  | 190  | 4.44 | 0.11 | — | 333  |
| Other<br>Asphalt<br>Surfaces                   | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                                 | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User<br>Defined<br>Industrial                  | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                          | — | — | — | — | — | — | — | — | — | — | — | 122  | 418  | 541  | 12.6 | 0.30 | — | 946  |
| Annual                                         | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufac<br>turing                              | — | — | — | — | — | — | — | — | — | — | — | 13.1 | 44.9 | 58.0 | 1.35 | 0.03 | — | 101  |

|                               |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Unrefrigerated Warehouse Rail | — | — | — | — | — | — | — | — | — | — | — | 7.14 | 24.4 | 31.5 | 0.73 | 0.02 | — | 55.2 |
| Other Asphalt Surfaces        | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                   | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial       | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                         | — | — | — | — | — | — | — | — | — | — | — | 20.3 | 69.3 | 89.5 | 2.09 | 0.05 | — | 157  |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Manufacturing                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 120  | 0.00  | 120  | 12.0 | 0.00 | — | 419  |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 49.3 | 0.00  | 49.3 | 4.93 | 0.00 | — | 172  |
| Other Asphalt Surfaces           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                                  |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 169  | 0.00 | 169  | 16.9 | 0.00 | — | 591  |
| Daily, Winter (Max)              | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | 120  | 0.00 | 120  | 12.0 | 0.00 | — | 419  |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 49.3 | 0.00 | 49.3 | 4.93 | 0.00 | — | 172  |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 169  | 0.00 | 169  | 16.9 | 0.00 | — | 591  |
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | 19.8 | 0.00 | 19.8 | 1.98 | 0.00 | — | 69.3 |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 8.16 | 0.00 | 8.16 | 0.82 | 0.00 | — | 28.6 |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                         |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 28.0 | 0.00 | 28.0 | 2.80 | 0.00 | — | 97.8 |

## 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) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Manufacturing       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 16.7 | 16.7 |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 16.7 | 16.7 |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Manufacturing       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 16.7 | 16.7 |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 16.7 | 16.7 |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Manufacturing       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 2.77 | 2.77 |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 2.77 | 2.77 |

## 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)

| Equipm<br>Type            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(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)

| Equipm<br>ent<br>Type          | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|--------------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Daily,<br>Summer<br>(Max)      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Emerge<br>ncy<br>Generat<br>or | 2.52 | 2.30 | 6.42 | 5.86 | 0.01    | 0.34  | 0.00  | 0.34  | 0.34   | 0.00   | 0.34   | 0.00 | 1,175 | 1,175 | 0.05 | 0.01    | 0.00 | 1,179 |
| Fire<br>Pump                   | 1.08 | 0.98 | 2.75 | 2.51 | < 0.005 | 0.14  | 0.00  | 0.14  | 0.14   | 0.00   | 0.14   | 0.00 | 504   | 504   | 0.02 | < 0.005 | 0.00 | 505   |
| Total                          | 3.61 | 3.28 | 9.17 | 8.37 | 0.02    | 0.48  | 0.00  | 0.48  | 0.48   | 0.00   | 0.48   | 0.00 | 1,679 | 1,679 | 0.07 | 0.01    | 0.00 | 1,685 |
| Daily,<br>Winter<br>(Max)      | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |

|                     |      |      |      |      |         |         |      |         |         |      |         |      |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|------|-------|
| Emergency           | 2.52 | 2.30 | 6.42 | 5.86 | 0.01    | 0.34    | 0.00 | 0.34    | 0.34    | 0.00 | 0.34    | 0.00 | 1,175 | 1,175 | 0.05    | 0.01    | 0.00 | 1,179 |
| Fire Pump           | 1.08 | 0.98 | 2.75 | 2.51 | < 0.005 | 0.14    | 0.00 | 0.14    | 0.14    | 0.00 | 0.14    | 0.00 | 504   | 504   | 0.02    | < 0.005 | 0.00 | 505   |
| Total               | 3.61 | 3.28 | 9.17 | 8.37 | 0.02    | 0.48    | 0.00 | 0.48    | 0.48    | 0.00 | 0.48    | 0.00 | 1,679 | 1,679 | 0.07    | 0.01    | 0.00 | 1,685 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Emergency Generator | 0.06 | 0.06 | 0.16 | 0.15 | < 0.005 | 0.01    | 0.00 | 0.01    | 0.01    | 0.00 | 0.01    | 0.00 | 26.7  | 26.7  | < 0.005 | < 0.005 | 0.00 | 26.7  |
| Fire Pump           | 0.03 | 0.02 | 0.07 | 0.06 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 11.4  | 11.4  | < 0.005 | < 0.005 | 0.00 | 11.5  |
| Total               | 0.09 | 0.08 | 0.23 | 0.21 | < 0.005 | 0.01    | 0.00 | 0.01    | 0.01    | 0.00 | 0.01    | 0.00 | 38.1  | 38.1  | < 0.005 | < 0.005 | 0.00 | 38.2  |

## 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            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date  | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|-----------|---------------|---------------------|-------------------|
| Demolition            | Demolition            | 5/3/2027   | 5/31/2027 | 5.00          | 21.0                | 20                |
| Site Preparation      | Site Preparation      | 6/1/2027   | 6/15/2027 | 5.00          | 11.0                | 10                |
| Grading               | Grading               | 6/16/2027  | 7/28/2027 | 5.00          | 31.0                | 30                |
| Building Construction | Building Construction | 7/29/2027  | 4/28/2028 | 5.00          | 197                 | 300               |
| Paving                | Paving                | 4/3/2028   | 4/28/2028 | 5.00          | 20.0                | 20                |
| Architectural Coating | Architectural Coating | 3/20/2028  | 4/28/2028 | 5.00          | 30.0                | 20                |

### 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       | Rubber Tired Dozers      | Diesel    | Average     | 2.00           | 8.00          | 367        | 0.40        |
| Demolition       | Excavators               | Diesel    | Average     | 3.00           | 8.00          | 36.0       | 0.38        |
| Demolition       | Concrete/Industrial Saws | Diesel    | Average     | 1.00           | 8.00          | 33.0       | 0.73        |
| Site Preparation | Rubber Tired Dozers      | Diesel    | Average     | 3.00           | 8.00          | 367        | 0.40        |
| Site Preparation | Crawler Tractors         | Diesel    | Average     | 4.00           | 8.00          | 87.0       | 0.43        |

|                       |                            |        |         |      |      |      |      |
|-----------------------|----------------------------|--------|---------|------|------|------|------|
| Grading               | Graders                    | Diesel | Average | 1.00 | 8.00 | 148  | 0.41 |
| Grading               | Excavators                 | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading               | Crawler Tractors           | Diesel | Average | 2.00 | 8.00 | 87.0 | 0.43 |
| Grading               | Scrapers                   | Diesel | Average | 2.00 | 8.00 | 423  | 0.48 |
| Grading               | Rubber Tired Dozers        | Diesel | Average | 1.00 | 8.00 | 367  | 0.40 |
| Building Construction | Forklifts                  | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets             | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Cranes                     | Diesel | Average | 1.00 | 8.00 | 367  | 0.29 |
| Building Construction | Welders                    | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Building Construction | Tractors/Loaders/Back hoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Paving                | Pavers                     | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment           | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving                | Rollers                    | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors            | Diesel | Average | 1.00 | 8.00 | 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       | 4.00                  | 10.2           | HHDT,MHDT     |
| Demolition       | Hauling      | 151                   | 20.0           | HHDT          |
| Demolition       | Onsite truck | —                     | —              | HHDT          |
| Site Preparation | —            | —                     | —              | —             |
| Site Preparation | Worker       | 17.5                  | 18.5           | LDA,LDT1,LDT2 |
| Site Preparation | Vendor       | 2.00                  | 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       | 5.00 | 10.2 | HHDT,MHDT     |
| Grading               | Hauling      | 0.00 | 20.0 | HHDT          |
| Grading               | Onsite truck | —    | —    | HHDT          |
| Building Construction | —            | —    | —    | —             |
| Building Construction | Worker       | 116  | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 34.0 | 10.2 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 15.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 23.2 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —    | 10.2 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating | Onsite truck | —    | —    | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| Architectural Coating | 0.00                                     | 0.00                                     | 414,450                                      | 138,150                                      | 20,046                      |

## 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                 | 275,000                                       | —                   |
| Site Preparation | —                      | —                      | 38.5                 | 0.00                                          | —                   |
| Grading          | —                      | —                      | 124                  | 0.00                                          | —                   |
| Paving           | 0.00                   | 0.00                   | 0.00                 | 0.00                                          | 7.67                |

### 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      | Other               | 74%            | 74%             |

## 5.7. Construction Paving

| Land Use                         | Area Paved (acres) | % Asphalt |
|----------------------------------|--------------------|-----------|
| Manufacturing                    | 0.00               | 0%        |
| Unrefrigerated Warehouse-No Rail | 0.00               | 0%        |
| Other Asphalt Surfaces           | 4.03               | 100%      |
| Parking Lot                      | 3.64               | 100%      |
| User Defined Industrial          | 0.00               | 0%        |

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2027 | 0.00         | 346 | 0.03 | < 0.005 |
| 2028 | 0.00         | 346 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type                    | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMt/Weekday | VMt/Saturday | VMt/Sunday | VMt/Year  |
|----------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Manufacturing                    | 84.0          | 26.3           | 17.4         | 24,165     | 2,543       | 797          | 526        | 731,946   |
| Unrefrigerated Warehouse-No Rail | 60.0          | 5.25           | 2.04         | 16,032     | 1,841       | 161          | 62.6       | 491,549   |
| Other Asphalt Surfaces           | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00      |
| Parking Lot                      | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00      |
| User Defined Industrial          | 878           | 242            | 157          | 249,732    | 8,824       | 2,429        | 1,580      | 2,509,471 |

## 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                                     | 414,450                                      | 138,150                                      | 20,046                      |

### 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) |
|----------------------------------|----------------------|-----|--------|--------|-----------------------|
| Manufacturing                    | 1,717,100            | 346 | 0.0330 | 0.0040 | 760,394               |
| Unrefrigerated Warehouse-No Rail | 455,399              | 346 | 0.0330 | 0.0040 | 0.00                  |
| Other Asphalt Surfaces           | 0.00                 | 346 | 0.0330 | 0.0040 | 0.00                  |
| Parking Lot                      | 138,897              | 346 | 0.0330 | 0.0040 | 0.00                  |
| User Defined Industrial          | 0.00                 | 346 | 0.0330 | 0.0040 | 0.00                  |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use                         | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|----------------------------------|-------------------------|--------------------------|
| Manufacturing                    | 41,393,750              | 747,510                  |
| Unrefrigerated Warehouse-No Rail | 22,500,625              | 402,506                  |
| Other Asphalt Surfaces           | 0.00                    | 0.00                     |
| Parking Lot                      | 0.00                    | 0.00                     |
| User Defined Industrial          | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use                         | Waste (ton/year) | Cogeneration (kWh/year) |
|----------------------------------|------------------|-------------------------|
| Manufacturing                    | 222              | —                       |
| Unrefrigerated Warehouse-No Rail | 91.5             | —                       |
| Other Asphalt Surfaces           | 0.00             | —                       |
| Parking Lot                      | 0.00             | —                       |
| User Defined Industrial          | 0.00             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type   | Equipment Type                      | Refrigerant  | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-----------------|-------------------------------------|--------------|-----|---------------|----------------------|-------------------|----------------|
| Industrial Park | Other commercial A/C and heat pumps | User Defined | 750 | 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 |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|----------------|-----------|-------------|----------------|---------------|------------|-------------|

## 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 |
|---------------------|-----------|----------------|---------------|----------------|------------|-------------|
| Emergency Generator | Diesel    | 1.00           | 1.00          | 50.0           | 700        | 0.73        |
| Fire Pump           | Diesel    | 1.00           | 1.00          | 50.0           | 300        | 0.73        |



|                     |        |      |      |      |     |      |
|---------------------|--------|------|------|------|-----|------|
| Emergency Generator | Diesel | 1.00 | 1.00 | 50.0 | 700 | 0.73 |
| Fire Pump           | Diesel | 1.00 | 1.00 | 50.0 | 300 | 0.73 |

5.16.2. Process Boilers

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

5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
|----------------|-----------|

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

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

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 4.89                        | annual days of extreme heat                |
| Extreme Precipitation        | 4.25                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00                        | 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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 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            | 24.9                            |
| AQ-PM               | 81.5                            |

|                                 |      |
|---------------------------------|------|
| AQ-DPM                          | 48.7 |
| Drinking Water                  | —    |
| Lead Risk Housing               | —    |
| Pesticides                      | 54.7 |
| Toxic Releases                  | 99.7 |
| Traffic                         | 68.1 |
| Effect Indicators               | —    |
| CleanUp Sites                   | 97.1 |
| Groundwater                     | 96.2 |
| Haz Waste Facilities/Generators | 99.8 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 39.3 |
| Sensitive Population            | —    |
| Asthma                          | —    |
| Cardio-vascular                 | —    |
| Low Birth Weights               | —    |
| Socioeconomic Factor Indicators | —    |
| Education                       | —    |
| Housing                         | —    |
| Linguistic                      | —    |
| Poverty                         | —    |
| Unemployment                    | —    |

## 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 | —                               |

|                                              |      |
|----------------------------------------------|------|
| Employed                                     | —    |
| Median HI                                    | —    |
| Education                                    | —    |
| Bachelor's or higher                         | —    |
| High school enrollment                       | —    |
| Preschool enrollment                         | —    |
| Transportation                               | —    |
| Auto Access                                  | —    |
| Active commuting                             | —    |
| Social                                       | —    |
| 2-parent households                          | —    |
| Voting                                       | —    |
| Neighborhood                                 | —    |
| Alcohol availability                         | —    |
| Park access                                  | —    |
| Retail density                               | —    |
| Supermarket access                           | —    |
| Tree canopy                                  | —    |
| Housing                                      | —    |
| Homeownership                                | —    |
| Housing habitability                         | —    |
| Low-inc homeowner severe housing cost burden | —    |
| Low-inc renter severe housing cost burden    | —    |
| Uncrowded housing                            | —    |
| Health Outcomes                              | —    |
| Insured adults                               | —    |
| Arthritis                                    | 0.0  |
| Asthma ER Admissions                         | 99.9 |

|                                       |      |
|---------------------------------------|------|
| High Blood Pressure                   | 0.0  |
| Cancer (excluding skin)               | 0.0  |
| Asthma                                | 0.0  |
| Coronary Heart Disease                | 0.0  |
| Chronic Obstructive Pulmonary Disease | 0.0  |
| Diagnosed Diabetes                    | 0.0  |
| Life Expectancy at Birth              | 0.0  |
| Cognitively Disabled                  | 0.0  |
| Physically Disabled                   | 0.0  |
| Heart Attack ER Admissions            | 99.9 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 0.0  |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 0.0  |
| Elderly                               | 0.0  |
| English Speaking                      | 0.0  |
| Foreign-born                          | 0.0  |
| Outdoor Workers                       | 0.0  |

|                                  |     |
|----------------------------------|-----|
| Climate Change Adaptive Capacity | —   |
| Impervious Surface Cover         | 0.0 |
| Traffic Density                  | 0.0 |
| Traffic Access                   | 0.0 |
| Other Indices                    | —   |
| Hardship                         | 0.0 |
| Other Decision Support           | —   |
| 2016 Voting                      | 0.0 |

7.3. Overall Health & Equity Scores

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen | Justification |
|--------|---------------|
|--------|---------------|

|                                      |                                                                                                                                                                                                                                                                      |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction: Construction Phases    | Schedule based information provided by Project Applicant                                                                                                                                                                                                             |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the Trip Generation.                                                                                                                                                                                           |
| Operations: Fleet Mix                | Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks                                                                                    |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                                                                                                     |
| Operations: Refrigerants             | Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.                                                                                                                                                  |
| Operations: Energy Use               | Project will not utilize natural gas for warehouse and manufacturing portion of the building. Natural Gas will be utilized for small office portion of the building (30,000 SF), as such NG estimates based on CalEEMod default NG usage for General Office Building |
| Land Use                             | Based on site plan and split between manufacturing and warehousing use                                                                                                                                                                                               |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases<br>Standard 8-hour work days                                                                                                                         |
| Construction: Trips and VMT          | Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction                                                                                                   |
| Construction: Architectural Coatings | SCAQMD Rule 1113                                                                                                                                                                                                                                                     |



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## **APPENDIX 3.2:**

### **CALEEMOD EXISTING EMISSIONS MODEL OUTPUTS**

# 15795 - Sequoia Commerce Center (Existing) Detailed Report

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8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                      |
|-----------------------------|--------------------------------------------|
| Project Name                | 15795 - Sequoia Commerce Center (Existing) |
| Operational Year            | 2024                                       |
| Lead Agency                 | —                                          |
| Land Use Scale              | Project/site                               |
| Analysis Level for Defaults | County                                     |
| Windspeed (m/s)             | 3.50                                       |
| Precipitation (days)        | 17.4                                       |
| Location                    | 2172 W 190th St, Torrance, CA 90501, USA   |
| County                      | Los Angeles-South Coast                    |
| City                        | Torrance                                   |
| Air District                | South Coast AQMD                           |
| Air Basin                   | South Coast                                |
| TAZ                         | 4669                                       |
| EDFZ                        | 7                                          |
| Electric Utility            | Southern California Edison                 |
| Gas Utility                 | Southern California Gas                    |
| App Version                 | 2022.1.1.26                                |

## 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 |
|----------------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Unrefrigerated Warehouse-No Rail | 275  | 1000sqft | 6.31        | 275,000               | 0.00                   | —                              | —          | Trucks      |



|                         |      |                   |      |      |      |   |   |    |
|-------------------------|------|-------------------|------|------|------|---|---|----|
| Other Asphalt Surfaces  | 7.70 | Acre              | 7.70 | 0.00 | 0.00 | — | — | —  |
| User Defined Industrial | 275  | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | PC |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 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.              | 13.7 | 12.9 | 7.30 | 57.2 | 0.13 | 0.22  | 9.71  | 9.94  | 0.21   | 2.49   | 2.70   | 261  | 15,294 | 15,555 | 27.2 | 0.89 | 55.9 | 16,557 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 11.5 | 10.9 | 7.66 | 41.5 | 0.12 | 0.20  | 9.71  | 9.92  | 0.20   | 2.49   | 2.69   | 261  | 14,830 | 15,092 | 27.2 | 0.91 | 1.45 | 16,045 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 11.6 | 11.1 | 6.05 | 39.2 | 0.09 | 0.19  | 6.93  | 7.12  | 0.18   | 1.78   | 1.96   | 261  | 11,739 | 12,001 | 27.1 | 0.75 | 17.4 | 12,918 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 2.12 | 2.02 | 1.10 | 7.16 | 0.02 | 0.03  | 1.26  | 1.30  | 0.03   | 0.32   | 0.36   | 43.2 | 1,944  | 1,987  | 4.48 | 0.12 | 2.88 | 2,139  |

### 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              | 4.75 | 4.26 | 5.78 | 44.0 | 0.12    | 0.09    | 9.71 | 9.81    | 0.09    | 2.49 | 2.58    | —   | 11,903 | 11,903 | 0.44    | 0.57    | 55.9 | 12,141 |
| Area                | 8.76 | 8.60 | 0.10 | 12.0 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | —   | 49.2   | 49.2   | < 0.005 | < 0.005 | —    | 49.4   |
| Energy              | 0.16 | 0.08 | 1.42 | 1.20 | 0.01    | 0.11    | —    | 0.11    | 0.11    | —    | 0.11    | —   | 2,928  | 2,928  | 0.27    | 0.02    | —    | 2,940  |
| Water               | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 122 | 413    | 535    | 12.5    | 0.30    | —    | 939    |
| Waste               | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 139 | 0.00   | 139    | 13.9    | 0.00    | —    | 487    |
| Total               | 13.7 | 12.9 | 7.30 | 57.2 | 0.13    | 0.22    | 9.71 | 9.94    | 0.21    | 2.49 | 2.70    | 261 | 15,294 | 15,555 | 27.2    | 0.89    | 55.9 | 16,557 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —   | —      | —      | —       | —       | —    | —      |
| Mobile              | 4.73 | 4.23 | 6.23 | 40.3 | 0.11    | 0.10    | 9.71 | 9.81    | 0.09    | 2.49 | 2.58    | —   | 11,489 | 11,489 | 0.46    | 0.59    | 1.45 | 11,679 |
| Area                | 6.64 | 6.64 | —    | —    | —       | —       | —    | —       | —       | —    | —       | —   | —      | —      | —       | —       | —    | —      |
| Energy              | 0.16 | 0.08 | 1.42 | 1.20 | 0.01    | 0.11    | —    | 0.11    | 0.11    | —    | 0.11    | —   | 2,928  | 2,928  | 0.27    | 0.02    | —    | 2,940  |
| Water               | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 122 | 413    | 535    | 12.5    | 0.30    | —    | 939    |
| Waste               | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 139 | 0.00   | 139    | 13.9    | 0.00    | —    | 487    |
| Total               | 11.5 | 10.9 | 7.66 | 41.5 | 0.12    | 0.20    | 9.71 | 9.92    | 0.20    | 2.49 | 2.69    | 261 | 14,830 | 15,092 | 27.2    | 0.91    | 1.45 | 16,045 |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —   | —      | —      | —       | —       | —    | —      |
| Mobile              | 3.38 | 3.03 | 4.55 | 29.8 | 0.08    | 0.07    | 6.93 | 7.00    | 0.06    | 1.78 | 1.84    | —   | 8,364  | 8,364  | 0.33    | 0.43    | 17.4 | 8,518  |
| Area                | 8.09 | 7.98 | 0.07 | 8.19 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —   | 33.7   | 33.7   | < 0.005 | < 0.005 | —    | 33.8   |
| Energy              | 0.16 | 0.08 | 1.42 | 1.20 | 0.01    | 0.11    | —    | 0.11    | 0.11    | —    | 0.11    | —   | 2,928  | 2,928  | 0.27    | 0.02    | —    | 2,940  |
| Water               | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 122 | 413    | 535    | 12.5    | 0.30    | —    | 939    |
| Waste               | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 139 | 0.00   | 139    | 13.9    | 0.00    | —    | 487    |
| Total               | 11.6 | 11.1 | 6.05 | 39.2 | 0.09    | 0.19    | 6.93 | 7.12    | 0.18    | 1.78 | 1.96    | 261 | 11,739 | 12,001 | 27.1    | 0.75    | 17.4 | 12,918 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —   | —      | —      | —       | —       | —    | —      |
| Mobile              | 0.62 | 0.55 | 0.83 | 5.44 | 0.01    | 0.01    | 1.26 | 1.28    | 0.01    | 0.32 | 0.34    | —   | 1,385  | 1,385  | 0.05    | 0.07    | 2.88 | 1,410  |
| Area                | 1.48 | 1.46 | 0.01 | 1.49 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —   | 5.58   | 5.58   | < 0.005 | < 0.005 | —    | 5.60   |
| Energy              | 0.03 | 0.01 | 0.26 | 0.22 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | —   | 485    | 485    | 0.04    | < 0.005 | —    | 487    |

|       |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |      |      |       |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| Water | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 20.2 | 68.5  | 88.6  | 2.08 | 0.05 | —    | 155   |
| Waste | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 23.1 | 0.00  | 23.1  | 2.31 | 0.00 | —    | 80.7  |
| Total | 2.12 | 2.02 | 1.10 | 7.16 | 0.02 | 0.03 | 1.26 | 1.30 | 0.03 | 0.32 | 0.36 | 43.2 | 1,944 | 1,987 | 4.48 | 0.12 | 2.88 | 2,139 |

## 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)              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unrefrigerated Warehouse-No Rail | 0.42 | 0.31 | 3.46 | 3.88 | 0.03 | 0.05  | 1.83  | 1.88  | 0.05   | 0.49   | 0.54   | —    | 3,578  | 3,578  | 0.08 | 0.34 | 24.1 | 3,707  |
| Other Asphalt Surfaces           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| User Defined Industrial          | 4.33 | 3.95 | 2.31 | 40.1 | 0.08 | 0.05  | 7.88  | 7.93  | 0.04   | 1.99   | 2.04   | —    | 8,325  | 8,325  | 0.36 | 0.23 | 31.8 | 8,434  |
| Total                            | 4.75 | 4.26 | 5.78 | 44.0 | 0.12 | 0.09  | 9.71  | 9.81  | 0.09   | 2.49   | 2.58   | —    | 11,903 | 11,903 | 0.44 | 0.57 | 55.9 | 12,141 |
| Daily, Winter (Max)              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unrefrigerated Warehouse-No Rail | 0.42 | 0.30 | 3.62 | 3.85 | 0.03 | 0.05  | 1.83  | 1.88  | 0.05   | 0.49   | 0.54   | —    | 3,579  | 3,579  | 0.08 | 0.35 | 0.63 | 3,685  |

|                                  |      |      |      |      |         |      |      |      |      |      |      |   |        |        |      |      |      |        |
|----------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Other Asphalt Surfaces           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| User Defined Industrial          | 4.31 | 3.93 | 2.61 | 36.4 | 0.08    | 0.05 | 7.88 | 7.93 | 0.04 | 1.99 | 2.04 | — | 7,910  | 7,910  | 0.38 | 0.25 | 0.82 | 7,994  |
| Total                            | 4.73 | 4.23 | 6.23 | 40.3 | 0.11    | 0.10 | 9.71 | 9.81 | 0.09 | 2.49 | 2.58 | — | 11,489 | 11,489 | 0.46 | 0.59 | 1.45 | 11,679 |
| Annual                           | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unrefrigerated Warehouse-No Rail | 0.05 | 0.04 | 0.48 | 0.51 | < 0.005 | 0.01 | 0.24 | 0.25 | 0.01 | 0.06 | 0.07 | — | 427    | 427    | 0.01 | 0.04 | 1.24 | 441    |
| Other Asphalt Surfaces           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| User Defined Industrial          | 0.56 | 0.51 | 0.35 | 4.94 | 0.01    | 0.01 | 1.03 | 1.03 | 0.01 | 0.26 | 0.26 | — | 958    | 958    | 0.04 | 0.03 | 1.64 | 969    |
| Total                            | 0.62 | 0.55 | 0.83 | 5.44 | 0.01    | 0.01 | 1.26 | 1.28 | 0.01 | 0.32 | 0.34 | — | 1,385  | 1,385  | 0.05 | 0.07 | 2.88 | 1,410  |

## 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)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1,229 | 1,229 | 0.12 | 0.01 | — | 1,237 |

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |       |       |      |         |   |       |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|---------|---|-------|
| Other Asphalt Surfaces             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| User Defined Industrial            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | — | 1,229 | 1,229 | 0.12 | 0.01    | — | 1,237 |
| Daily, Winter (Max)                | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —    | —       | — | —     |
| Unrefrig erated Wareho use-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 1,229 | 1,229 | 0.12 | 0.01    | — | 1,237 |
| Other Asphalt Surfaces             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| User Defined Industrial            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | — | 1,229 | 1,229 | 0.12 | 0.01    | — | 1,237 |
| Annual                             | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —    | —       | — | —     |
| Unrefrig erated Wareho use-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 204   | 204   | 0.02 | < 0.005 | — | 205   |
| Other Asphalt Surfaces             | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| User Defined Industrial            | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | — | 204   | 204   | 0.02 | < 0.005 | — | 205   |

## 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)              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |
| Unrefrigerated Warehouse-No Rail | 0.16 | 0.08 | 1.42 | 1.20 | 0.01 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 1,699 | 1,699 | 0.15 | < 0.005 | — | 1,704 |
| Other Asphalt Surfaces           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| User Defined Industrial          | 0.00 | 0.00 | 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                            | 0.16 | 0.08 | 1.42 | 1.20 | 0.01 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 1,699 | 1,699 | 0.15 | < 0.005 | — | 1,704 |
| Daily, Winter (Max)              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |
| Unrefrigerated Warehouse-No Rail | 0.16 | 0.08 | 1.42 | 1.20 | 0.01 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 1,699 | 1,699 | 0.15 | < 0.005 | — | 1,704 |
| Other Asphalt Surfaces           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| User Defined Industrial          | 0.00 | 0.00 | 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                            | 0.16 | 0.08 | 1.42 | 1.20 | 0.01 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 1,699 | 1,699 | 0.15 | < 0.005 | — | 1,704 |
| Annual                           | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |

|                               |      |      |      |      |         |      |   |      |      |   |      |   |      |      |      |         |   |      |
|-------------------------------|------|------|------|------|---------|------|---|------|------|---|------|---|------|------|------|---------|---|------|
| Unrefrig<br>erated            | 0.03 | 0.01 | 0.26 | 0.22 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 281  | 281  | 0.02 | < 0.005 | — | 282  |
| Other<br>Asphalt<br>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 |
| User<br>Defined<br>Industrial | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                         | 0.03 | 0.01 | 0.26 | 0.22 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 281  | 281  | 0.02 | < 0.005 | — | 282  |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

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

| Source                            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R | CO2e |
|-----------------------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|---------|---------|---|------|
| Daily,<br>Summer<br>(Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Consum<br>er<br>Product<br>s      | 5.91 | 5.91 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Architect<br>ural<br>Coating<br>s | 0.72 | 0.72 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Landscape<br>Equipm<br>ent        | 2.13 | 1.96 | 0.10 | 12.0 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 49.2  | 49.2 | < 0.005 | < 0.005 | — | 49.4 |
| Total                             | 8.76 | 8.60 | 0.10 | 12.0 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 49.2  | 49.2 | < 0.005 | < 0.005 | — | 49.4 |
| Daily,<br>Winter<br>(Max)         | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |

|                        |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Consumer               | 5.91 | 5.91 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 0.72 | 0.72 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                  | 6.64 | 6.64 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | 1.08 | 1.08 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 0.13 | 0.13 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.27 | 0.25 | 0.01 | 1.49 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.58 | 5.58 | < 0.005 | < 0.005 | — | 5.60 |
| Total                  | 1.48 | 1.46 | 0.01 | 1.49 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.58 | 5.58 | < 0.005 | < 0.005 | — | 5.60 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

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

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 122  | 413   | 535  | 12.5 | 0.30 | — | 939  |



|                                    |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Other Asphalt Surfaces             | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial            | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | 122  | 413  | 535  | 12.5 | 0.30 | — | 939  |
| Daily, Winter (Max)                | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Unrefrig erated Wareho use-No Rail | — | — | — | — | — | — | — | — | — | — | — | 122  | 413  | 535  | 12.5 | 0.30 | — | 939  |
| Other Asphalt Surfaces             | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial            | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | 122  | 413  | 535  | 12.5 | 0.30 | — | 939  |
| Annual                             | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Unrefrig erated Wareho use-No Rail | — | — | — | — | — | — | — | — | — | — | — | 20.2 | 68.5 | 88.6 | 2.08 | 0.05 | — | 155  |
| Other Asphalt Surfaces             | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial            | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | 20.2 | 68.5 | 88.6 | 2.08 | 0.05 | — | 155  |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 139  | 0.00  | 139  | 13.9 | 0.00 | — | 487  |
| Other Asphalt Surfaces           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 139  | 0.00  | 139  | 13.9 | 0.00 | — | 487  |
| Daily, Winter (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 139  | 0.00  | 139  | 13.9 | 0.00 | — | 487  |
| Other Asphalt Surfaces           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 139  | 0.00  | 139  | 13.9 | 0.00 | — | 487  |

|                                  |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 23.1 | 0.00 | 23.1 | 2.31 | 0.00 | — | 80.7 |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 23.1 | 0.00 | 23.1 | 2.31 | 0.00 | — | 80.7 |

## 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) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 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)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(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)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(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)

| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(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)

| Vegetati<br>on            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(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            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily,<br>Winter<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type                    | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year  |
|----------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Unrefrigerated Warehouse-No Rail | 115           | 3.85           | 1.65         | 30,256     | 2,119       | 71.0         | 30.4       | 557,616   |
| Other Asphalt Surfaces           | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00      |
| User Defined Industrial          | 1,120         | 37.4           | 14.9         | 294,744    | 11,255      | 376          | 149        | 2,961,779 |

## 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                                     | 412,500                                      | 137,500                                      | 20,125                      |

### 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) |
|----------------------------------|----------------------|-----|--------|--------|-----------------------|
| Unrefrigerated Warehouse-No Rail | 1,287,100            | 349 | 0.0330 | 0.0040 | 5,300,940             |
| Other Asphalt Surfaces           | 0.00                 | 349 | 0.0330 | 0.0040 | 0.00                  |
| User Defined Industrial          | 0.00                 | 349 | 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) |
|----------------------------------|-------------------------|--------------------------|
| Unrefrigerated Warehouse-No Rail | 63,593,750              | 0.00                     |
| Other Asphalt Surfaces           | 0.00                    | 0.00                     |
| User Defined Industrial          | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use                         | Waste (ton/year) | Cogeneration (kWh/year) |
|----------------------------------|------------------|-------------------------|
| Unrefrigerated Warehouse-No Rail | 259              | —                       |
| Other Asphalt Surfaces           | 0.00             | —                       |
| User Defined Industrial          | 0.00             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

## 5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
|----------------|-----------|

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 4.89                        | annual days of extreme heat                |
| Extreme Precipitation        | 4.25                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 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                        | 24.9                            |
| AQ-PM                           | 81.5                            |
| AQ-DPM                          | 48.7                            |
| Drinking Water                  | —                               |
| Lead Risk Housing               | —                               |
| Pesticides                      | 54.7                            |
| Toxic Releases                  | 99.7                            |
| Traffic                         | 68.1                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 97.1                            |
| Groundwater                     | 96.2                            |
| Haz Waste Facilities/Generators | 99.8                            |
| Impaired Water Bodies           | 0.00                            |
| Solid Waste                     | 39.3                            |
| Sensitive Population            | —                               |
| Asthma                          | —                               |
| Cardio-vascular                 | —                               |
| Low Birth Weights               | —                               |
| Socioeconomic Factor Indicators | —                               |
| Education                       | —                               |
| Housing                         | —                               |
| Linguistic                      | —                               |
| Poverty                         | —                               |
| Unemployment                    | —                               |

## 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                                | —                               |
| Employed                                     | —                               |
| Median HI                                    | —                               |
| Education                                    | —                               |
| Bachelor's or higher                         | —                               |
| High school enrollment                       | —                               |
| Preschool enrollment                         | —                               |
| Transportation                               | —                               |
| Auto Access                                  | —                               |
| Active commuting                             | —                               |
| Social                                       | —                               |
| 2-parent households                          | —                               |
| Voting                                       | —                               |
| Neighborhood                                 | —                               |
| Alcohol availability                         | —                               |
| Park access                                  | —                               |
| Retail density                               | —                               |
| Supermarket access                           | —                               |
| Tree canopy                                  | —                               |
| Housing                                      | —                               |
| Homeownership                                | —                               |
| Housing habitability                         | —                               |
| Low-inc homeowner severe housing cost burden | —                               |
| Low-inc renter severe housing cost burden    | —                               |

|                                       |      |
|---------------------------------------|------|
| Uncrowded housing                     | —    |
| Health Outcomes                       | —    |
| Insured adults                        | —    |
| Arthritis                             | 0.0  |
| Asthma ER Admissions                  | 99.9 |
| High Blood Pressure                   | 0.0  |
| Cancer (excluding skin)               | 0.0  |
| Asthma                                | 0.0  |
| Coronary Heart Disease                | 0.0  |
| Chronic Obstructive Pulmonary Disease | 0.0  |
| Diagnosed Diabetes                    | 0.0  |
| Life Expectancy at Birth              | 0.0  |
| Cognitively Disabled                  | 0.0  |
| Physically Disabled                   | 0.0  |
| Heart Attack ER Admissions            | 99.9 |
| Mental Health Not Good                | 0.0  |
| Chronic Kidney Disease                | 0.0  |
| Obesity                               | 0.0  |
| Pedestrian Injuries                   | 0.0  |
| Physical Health Not Good              | 0.0  |
| Stroke                                | 0.0  |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 0.0  |
| Current Smoker                        | 0.0  |
| No Leisure Time for Physical Activity | 0.0  |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |

|                                  |     |
|----------------------------------|-----|
| Children                         | 0.0 |
| Elderly                          | 0.0 |
| English Speaking                 | 0.0 |
| Foreign-born                     | 0.0 |
| Outdoor Workers                  | 0.0 |
| Climate Change Adaptive Capacity | —   |
| Impervious Surface Cover         | 0.0 |
| Traffic Density                  | 0.0 |
| Traffic Access                   | 0.0 |
| Other Indices                    | —   |
| Hardship                         | 0.0 |
| Other Decision Support           | —   |
| 2016 Voting                      | 0.0 |

### 7.3. Overall Health & Equity Scores

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

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.



### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                             | Justification                                                                                                                                                                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction: Construction Phases  | Schedule based information provided on existing tenant leases ending in 2024/2025.                                                                                                |
| Operations: Vehicle Data           | Trip characteristics based on information provided in the Trip Generation.                                                                                                        |
| Operations: Fleet Mix              | Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks |
| Operations: Architectural Coatings | SCAQMD Rule 1113                                                                                                                                                                  |
| Operations: Refrigerants           | Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.                                                               |
| Operations: Energy Use             | Project will not utilize natural gas                                                                                                                                              |

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## **APPENDIX 3.3:**

### **LST MODELING**

# 15795 - Sequoia Commerce Center (Operational LSTs) Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                              |
|-----------------------------|----------------------------------------------------|
| Project Name                | 15795 - Sequoia Commerce Center (Operational LSTs) |
| Operational Year            | 2028                                               |
| Lead Agency                 | —                                                  |
| Land Use Scale              | Project/site                                       |
| Analysis Level for Defaults | County                                             |
| Windspeed (m/s)             | 3.50                                               |
| Precipitation (days)        | 17.4                                               |
| Location                    | 2172 W 190th St, Torrance, CA 90501, USA           |
| County                      | Los Angeles-South Coast                            |
| City                        | Torrance                                           |
| Air District                | South Coast AQMD                                   |
| Air Basin                   | South Coast                                        |
| TAZ                         | 4669                                               |
| EDFZ                        | 7                                                  |
| Electric Utility            | Southern California Edison                         |
| Gas Utility                 | Southern California Gas                            |
| App Version                 | 2022.1.1.28                                        |

## 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 |
|----------------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Manufacturing                    | 179  | 1000sqft | 4.11        | 179,000               | 53,300                 | —                              | —          | Trucks      |
| Unrefrigerated Warehouse-No Rail | 97.3 | 1000sqft | 2.23        | 97,300                | 28,700                 | —                              | —          | Trucks      |

|                         |      |                   |      |      |      |   |   |    |
|-------------------------|------|-------------------|------|------|------|---|---|----|
| Other Asphalt Surfaces  | 4.03 | Acre              | 4.03 | 0.00 | 0.00 | — | — | —  |
| Parking Lot             | 584  | Space             | 3.64 | 0.00 | 0.00 | — | — | —  |
| User Defined Industrial | 276  | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | PC |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 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.              | 14.3 | 13.7 | 11.4 | 26.8 | 0.02    | 0.53  | 0.21  | 0.73  | 0.52   | 0.05   | 0.57   | 291  | 5,151 | 5,442 | 30.0 | 0.44 | 17.5 | 6,340 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 12.2 | 11.7 | 11.4 | 15.6 | 0.02    | 0.50  | 0.21  | 0.71  | 0.50   | 0.05   | 0.56   | 291  | 5,097 | 5,389 | 30.0 | 0.45 | 16.8 | 6,288 |
| Average Daily (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 10.0 | 9.74 | 3.05 | 14.9 | 0.01    | 0.10  | 0.16  | 0.26  | 0.10   | 0.04   | 0.14   | 291  | 3,554 | 3,845 | 29.9 | 0.41 | 17.0 | 4,731 |
| Annual (Max)        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 1.83 | 1.78 | 0.56 | 2.72 | < 0.005 | 0.02  | 0.03  | 0.05  | 0.02   | 0.01   | 0.03   | 48.2 | 588   | 637   | 4.94 | 0.07 | 2.81 | 783   |

### 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)

15795 - Sequoia Commerce Center (Operational LSTs) Detailed Report, 9/11/2024

| 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              | 2.23 | 2.11 | 1.91 | 6.21 | 0.01    | 0.01    | 0.21  | 0.21  | 0.01    | 0.05   | 0.06   | —    | 568   | 568   | 0.18    | 0.10    | 0.71 | 603   |
| Area                | 8.45 | 8.29 | 0.10 | 12.0 | < 0.005 | 0.02    | —     | 0.02  | 0.02    | —      | 0.02   | —    | 49.4  | 49.4  | < 0.005 | < 0.005 | —    | 49.6  |
| Energy              | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02    | —     | 0.02  | 0.02    | —      | 0.02   | —    | 2,436 | 2,436 | 0.23    | 0.03    | —    | 2,449 |
| Water               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 122  | 418   | 541   | 12.6    | 0.30    | —    | 946   |
| Waste               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 169  | 0.00  | 169   | 16.9    | 0.00    | —    | 591   |
| Refrig.             | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | 16.7 | 16.7  |
| Stationary          | 3.61 | 3.28 | 9.17 | 8.37 | 0.02    | 0.48    | 0.00  | 0.48  | 0.48    | 0.00   | 0.48   | 0.00 | 1,679 | 1,679 | 0.07    | 0.01    | 0.00 | 1,685 |
| Total               | 14.3 | 13.7 | 11.4 | 26.8 | 0.02    | 0.53    | 0.21  | 0.73  | 0.52    | 0.05   | 0.57   | 291  | 5,151 | 5,442 | 30.0    | 0.44    | 17.5 | 6,340 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 2.22 | 2.09 | 2.02 | 7.08 | 0.01    | 0.01    | 0.21  | 0.21  | 0.01    | 0.05   | 0.06   | —    | 564   | 564   | 0.19    | 0.10    | 0.02 | 600   |
| Area                | 6.32 | 6.32 | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Energy              | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02    | —     | 0.02  | 0.02    | —      | 0.02   | —    | 2,436 | 2,436 | 0.23    | 0.03    | —    | 2,449 |
| Water               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 122  | 418   | 541   | 12.6    | 0.30    | —    | 946   |
| Waste               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 169  | 0.00  | 169   | 16.9    | 0.00    | —    | 591   |
| Refrig.             | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | 16.7 | 16.7  |
| Stationary          | 3.61 | 3.28 | 9.17 | 8.37 | 0.02    | 0.48    | 0.00  | 0.48  | 0.48    | 0.00   | 0.48   | 0.00 | 1,679 | 1,679 | 0.07    | 0.01    | 0.00 | 1,685 |
| Total               | 12.2 | 11.7 | 11.4 | 15.6 | 0.02    | 0.50    | 0.21  | 0.71  | 0.50    | 0.05   | 0.56   | 291  | 5,097 | 5,389 | 30.0    | 0.45    | 16.8 | 6,288 |
| Average Daily       | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 1.71 | 1.61 | 1.52 | 5.37 | < 0.005 | < 0.005 | 0.16  | 0.16  | < 0.005 | 0.04   | 0.05   | —    | 436   | 436   | 0.15    | 0.08    | 0.24 | 463   |
| Area                | 7.78 | 7.67 | 0.07 | 8.23 | < 0.005 | 0.01    | —     | 0.01  | 0.01    | —      | 0.01   | —    | 33.8  | 33.8  | < 0.005 | < 0.005 | —    | 34.0  |
| Energy              | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02    | —     | 0.02  | 0.02    | —      | 0.02   | —    | 2,436 | 2,436 | 0.23    | 0.03    | —    | 2,449 |
| Water               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 122  | 418   | 541   | 12.6    | 0.30    | —    | 946   |

|            |         |         |      |      |         |         |      |         |         |      |         |      |       |       |         |         |      |       |
|------------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|------|-------|
| Waste      | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 169  | 0.00  | 169   | 16.9    | 0.00    | —    | 591   |
| Refrig.    | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 16.7 | 16.7  |
| Stationary | 0.49    | 0.45    | 1.26 | 1.15 | < 0.005 | 0.07    | 0.00 | 0.07    | 0.07    | 0.00 | 0.07    | 0.00 | 230   | 230   | 0.01    | < 0.005 | 0.00 | 231   |
| Total      | 10.0    | 9.74    | 3.05 | 14.9 | 0.01    | 0.10    | 0.16 | 0.26    | 0.10    | 0.04 | 0.14    | 291  | 3,554 | 3,845 | 29.9    | 0.41    | 17.0 | 4,731 |
| Annual     | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile     | 0.31    | 0.29    | 0.28 | 0.98 | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01 | 0.01    | —    | 72.1  | 72.1  | 0.02    | 0.01    | 0.04 | 76.7  |
| Area       | 1.42    | 1.40    | 0.01 | 1.50 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 5.60  | 5.60  | < 0.005 | < 0.005 | —    | 5.62  |
| Energy     | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 403   | 403   | 0.04    | < 0.005 | —    | 406   |
| Water      | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 20.3 | 69.3  | 89.5  | 2.09    | 0.05    | —    | 157   |
| Waste      | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 28.0 | 0.00  | 28.0  | 2.80    | 0.00    | —    | 97.8  |
| Refrig.    | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 2.77 | 2.77  |
| Stationary | 0.09    | 0.08    | 0.23 | 0.21 | < 0.005 | 0.01    | 0.00 | 0.01    | 0.01    | 0.00 | 0.01    | 0.00 | 38.1  | 38.1  | < 0.005 | < 0.005 | 0.00 | 38.2  |
| Total      | 1.83    | 1.78    | 0.56 | 2.72 | < 0.005 | 0.02    | 0.03 | 0.05    | 0.02    | 0.01 | 0.03    | 48.2 | 588   | 637   | 4.94    | 0.07    | 2.81 | 783   |

## 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) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —    | —    | —    | —    | —    |
| Manufacturing       | 0.09 | 0.05 | 0.86 | 0.71 | < 0.005 | < 0.005 | 0.02  | 0.02  | < 0.005 | 0.01   | 0.01   | —    | 156   | 156  | 0.04 | 0.03 | 0.16 | 165  |

|                                                |      |      |      |      |         |         |         |         |         |         |         |   |      |      |      |         |         |      |
|------------------------------------------------|------|------|------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|------|---------|---------|------|
| Unrefrig<br>erated<br>Wareho<br>Rail           | 0.07 | 0.04 | 0.62 | 0.51 | < 0.005 | < 0.005 | 0.01    | 0.02    | < 0.005 | < 0.005 | < 0.005 | — | 113  | 113  | 0.03 | 0.02    | 0.12    | 119  |
| Other<br>Asphalt<br>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 |
| Parking<br>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 |
| User<br>Defined<br>Industrial                  | 2.07 | 2.02 | 0.43 | 4.99 | < 0.005 | < 0.005 | 0.17    | 0.18    | < 0.005 | 0.04    | 0.05    | — | 299  | 299  | 0.11 | 0.06    | 0.44    | 319  |
| Total                                          | 2.23 | 2.11 | 1.91 | 6.21 | 0.01    | 0.01    | 0.21    | 0.21    | 0.01    | 0.05    | 0.06    | — | 568  | 568  | 0.18 | 0.10    | 0.71    | 603  |
| Daily,<br>Winter<br>(Max)                      | —    | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —    | —       | —       | —    |
| Manufac<br>turing                              | 0.09 | 0.04 | 0.90 | 0.73 | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | 0.01    | 0.01    | — | 158  | 158  | 0.04 | 0.03    | < 0.005 | 166  |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail | 0.06 | 0.03 | 0.65 | 0.53 | < 0.005 | < 0.005 | 0.01    | 0.02    | < 0.005 | < 0.005 | < 0.005 | — | 114  | 114  | 0.03 | 0.02    | < 0.005 | 120  |
| Other<br>Asphalt<br>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 |
| Parking<br>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 |
| User<br>Defined<br>Industrial                  | 2.07 | 2.02 | 0.47 | 5.81 | < 0.005 | < 0.005 | 0.17    | 0.18    | < 0.005 | 0.04    | 0.05    | — | 293  | 293  | 0.12 | 0.06    | 0.01    | 313  |
| Total                                          | 2.22 | 2.09 | 2.02 | 7.08 | 0.01    | 0.01    | 0.21    | 0.21    | 0.01    | 0.05    | 0.06    | — | 564  | 564  | 0.19 | 0.10    | 0.02    | 600  |
| Annual                                         | —    | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —    | —       | —       | —    |
| Manufac<br>turing                              | 0.01 | 0.01 | 0.13 | 0.10 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 20.4 | 20.4 | 0.01 | < 0.005 | 0.01    | 21.6 |

|                                      |      |         |      |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|--------------------------------------|------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Unrefrig<br>erated<br>Wareho<br>Rail | 0.01 | < 0.005 | 0.08 | 0.07 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 13.7 | 13.7 | < 0.005 | < 0.005 | 0.01 | 14.5 |
| Other<br>Asphalt<br>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 |
| Parking<br>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 |
| User<br>Defined<br>Industrial        | 0.29 | 0.28    | 0.07 | 0.81 | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | 0.01    | 0.01    | — | 38.0 | 38.0 | 0.02    | 0.01    | 0.02 | 40.7 |
| Total                                | 0.31 | 0.29    | 0.28 | 0.98 | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 72.1 | 72.1 | 0.02    | 0.01    | 0.04 | 76.7 |

## 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,<br>Summer<br>(Max)                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |
| Manufac<br>turing                              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1,629 | 1,629 | 0.16 | 0.02    | — | 1,638 |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 432   | 432   | 0.04 | < 0.005 | — | 434   |
| Other<br>Asphalt<br>Surfaces                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00    | — | 0.00  |
| Parking<br>Lot                                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 132   | 132   | 0.01 | < 0.005 | — | 133   |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |       |       |         |         |   |       |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|---------|---------|---|-------|
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00    | 0.00    | — | 0.00  |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | — | 2,192 | 2,192 | 0.21    | 0.03    | — | 2,205 |
| Daily, Winter (Max)              | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —       | —       | — | —     |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | — | 1,629 | 1,629 | 0.16    | 0.02    | — | 1,638 |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 432   | 432   | 0.04    | < 0.005 | — | 434   |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00    | 0.00    | — | 0.00  |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | — | 132   | 132   | 0.01    | < 0.005 | — | 133   |
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00    | 0.00    | — | 0.00  |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | — | 2,192 | 2,192 | 0.21    | 0.03    | — | 2,205 |
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —       | —       | — | —     |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | — | 270   | 270   | 0.03    | < 0.005 | — | 271   |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | — | 71.5  | 71.5  | 0.01    | < 0.005 | — | 71.9  |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00    | 0.00    | — | 0.00  |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | — | 21.8  | 21.8  | < 0.005 | < 0.005 | — | 21.9  |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |         |   |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|---------|---|------|
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 363  | 363  | 0.03 | < 0.005 | — | 365  |

#### 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)              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Manufacturing                    | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 244   | 244  | 0.02 | < 0.005 | — | 244  |
| Unrefrigerated Warehouse-No Rail | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Other Asphalt Surfaces           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | — | 0.00 |
| 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 |
| User Defined Industrial          | 0.00 | 0.00 | 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                            | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 244   | 244  | 0.02 | < 0.005 | — | 244  |
| Daily, Winter (Max)              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Manufacturing                    | 0.02 | 0.01 | 0.20 | 0.17 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 244   | 244  | 0.02 | < 0.005 | — | 244  |



|                                                |         |         |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Unrefrig<br>erated<br>Wareho<br>use-No         | 0.00    | 0.00    | 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<br>Asphalt<br>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 |
| Parking<br>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 |
| User<br>Defined<br>Industrial                  | 0.00    | 0.00    | 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                                          | 0.02    | 0.01    | 0.20 | 0.17 | < 0.005 | 0.02    | — | 0.02    | 0.02    | — | 0.02    | — | 244  | 244  | 0.02    | < 0.005 | — | 244  |
| Annual                                         | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Manufac<br>turing                              | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 40.3 | 40.3 | < 0.005 | < 0.005 | — | 40.5 |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail | 0.00    | 0.00    | 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<br>Asphalt<br>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 |
| Parking<br>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 |
| User<br>Defined<br>Industrial                  | 0.00    | 0.00    | 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                                          | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 40.3 | 40.3 | < 0.005 | < 0.005 | — | 40.5 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

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

| Source                 | 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      | 5.94 | 5.94 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Architectural Coatings | 0.38 | 0.38 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Landscape Equipment    | 2.14 | 1.97 | 0.10 | 12.0 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 49.4  | 49.4 | < 0.005 | < 0.005 | — | 49.6 |
| Total                  | 8.45 | 8.29 | 0.10 | 12.0 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 49.4  | 49.4 | < 0.005 | < 0.005 | — | 49.6 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Consumer Products      | 5.94 | 5.94 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Architectural Coatings | 0.38 | 0.38 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Total                  | 6.32 | 6.32 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Consumer Products      | 1.08 | 1.08 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Architectural Coatings | 0.07 | 0.07 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |

|                     |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|---------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Landscape Equipment | 0.27 | 0.25 | 0.01 | 1.50 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.60 | 5.60 | < 0.005 | < 0.005 | — | 5.62 |
| Total               | 1.42 | 1.40 | 0.01 | 1.50 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.60 | 5.60 | < 0.005 | < 0.005 | — | 5.62 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

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

| Land Use                         | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|----------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Manufacturing                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 79.3 | 271   | 350  | 8.16 | 0.20 | — | 613  |
| Unrefrigerated Warehouse-No Rail | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 43.1 | 147   | 190  | 4.44 | 0.11 | — | 333  |
| Other Asphalt Surfaces           | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 122  | 418   | 541  | 12.6 | 0.30 | — | 946  |
| Daily, Winter (Max)              | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Manufacturing                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 79.3 | 271   | 350  | 8.16 | 0.20 | — | 613  |

|                                                |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Unrefrig<br>erated                             | — | — | — | — | — | — | — | — | — | — | — | 43.1 | 147  | 190  | 4.44 | 0.11 | — | 333  |
| Other<br>Asphalt<br>Surfaces                   | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                                 | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User<br>Defined<br>Industrial                  | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                          | — | — | — | — | — | — | — | — | — | — | — | 122  | 418  | 541  | 12.6 | 0.30 | — | 946  |
| Annual                                         | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufac<br>turing                              | — | — | — | — | — | — | — | — | — | — | — | 13.1 | 44.9 | 58.0 | 1.35 | 0.03 | — | 101  |
| Unrefrig<br>erated<br>Wareho<br>use-No<br>Rail | — | — | — | — | — | — | — | — | — | — | — | 7.14 | 24.4 | 31.5 | 0.73 | 0.02 | — | 55.2 |
| Other<br>Asphalt<br>Surfaces                   | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                                 | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User<br>Defined<br>Industrial                  | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                          | — | — | — | — | — | — | — | — | — | — | — | 20.3 | 69.3 | 89.5 | 2.09 | 0.05 | — | 157  |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

| Land<br>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)              | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | 120  | 0.00 | 120  | 12.0 | 0.00 | — | 419  |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 49.3 | 0.00 | 49.3 | 4.93 | 0.00 | — | 172  |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 169  | 0.00 | 169  | 16.9 | 0.00 | — | 591  |
| Daily, Winter (Max)              | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | 120  | 0.00 | 120  | 12.0 | 0.00 | — | 419  |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 49.3 | 0.00 | 49.3 | 4.93 | 0.00 | — | 172  |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                                  |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 169  | 0.00 | 169  | 16.9 | 0.00 | — | 591  |
| Annual                           | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Manufacturing                    | — | — | — | — | — | — | — | — | — | — | — | 19.8 | 0.00 | 19.8 | 1.98 | 0.00 | — | 69.3 |
| Unrefrigerated Warehouse-No Rail | — | — | — | — | — | — | — | — | — | — | — | 8.16 | 0.00 | 8.16 | 0.82 | 0.00 | — | 28.6 |
| Other Asphalt Surfaces           | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking Lot                      | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Industrial          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                            | — | — | — | — | — | — | — | — | — | — | — | 28.0 | 0.00 | 28.0 | 2.80 | 0.00 | — | 97.8 |

## 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) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Manufacturing       | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 16.7 | 16.7 |
| Total               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 16.7 | 16.7 |
| Daily, Winter (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Manufac       | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 16.7 | 16.7 |
| Total         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 16.7 | 16.7 |
| Annual        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Manufacturing | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.77 | 2.77 |
| Total         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.77 | 2.77 |

## 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 |
|----------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|----------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

|                     |      |      |      |      |         |         |      |         |         |      |         |      |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Emergency Generator | 2.52 | 2.30 | 6.42 | 5.86 | 0.01    | 0.34    | 0.00 | 0.34    | 0.34    | 0.00 | 0.34    | 0.00 | 1,175 | 1,175 | 0.05    | 0.01    | 0.00 | 1,179 |
| Fire Pump           | 1.08 | 0.98 | 2.75 | 2.51 | < 0.005 | 0.14    | 0.00 | 0.14    | 0.14    | 0.00 | 0.14    | 0.00 | 504   | 504   | 0.02    | < 0.005 | 0.00 | 505   |
| Total               | 3.61 | 3.28 | 9.17 | 8.37 | 0.02    | 0.48    | 0.00 | 0.48    | 0.48    | 0.00 | 0.48    | 0.00 | 1,679 | 1,679 | 0.07    | 0.01    | 0.00 | 1,685 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Emergency Generator | 2.52 | 2.30 | 6.42 | 5.86 | 0.01    | 0.34    | 0.00 | 0.34    | 0.34    | 0.00 | 0.34    | 0.00 | 1,175 | 1,175 | 0.05    | 0.01    | 0.00 | 1,179 |
| Fire Pump           | 1.08 | 0.98 | 2.75 | 2.51 | < 0.005 | 0.14    | 0.00 | 0.14    | 0.14    | 0.00 | 0.14    | 0.00 | 504   | 504   | 0.02    | < 0.005 | 0.00 | 505   |
| Total               | 3.61 | 3.28 | 9.17 | 8.37 | 0.02    | 0.48    | 0.00 | 0.48    | 0.48    | 0.00 | 0.48    | 0.00 | 1,679 | 1,679 | 0.07    | 0.01    | 0.00 | 1,685 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Emergency Generator | 0.06 | 0.06 | 0.16 | 0.15 | < 0.005 | 0.01    | 0.00 | 0.01    | 0.01    | 0.00 | 0.01    | 0.00 | 26.7  | 26.7  | < 0.005 | < 0.005 | 0.00 | 26.7  |
| Fire Pump           | 0.03 | 0.02 | 0.07 | 0.06 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 11.4  | 11.4  | < 0.005 | < 0.005 | 0.00 | 11.5  |
| Total               | 0.09 | 0.08 | 0.23 | 0.21 | < 0.005 | 0.01    | 0.00 | 0.01    | 0.01    | 0.00 | 0.01    | 0.00 | 38.1  | 38.1  | < 0.005 | < 0.005 | 0.00 | 38.2  |

## 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)



| Equipm<br>ent<br>Type     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(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)

| Vegetati<br>on            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Daily,<br>Summer<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Daily,<br>Winter<br>(Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Annual                    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Total                     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

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

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

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

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avoided     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual      | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

| Land Use Type                    | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|----------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Manufacturing                    | 84.0          | 26.3           | 17.4         | 24,165     | 23.5        | 7.37         | 4.86       | 6,766    |
| Unrefrigerated Warehouse-No Rail | 60.0          | 5.25           | 2.04         | 16,032     | 16.8        | 1.47         | 0.57       | 4,489    |

|                         |      |      |      |         |      |      |      |        |
|-------------------------|------|------|------|---------|------|------|------|--------|
| Other Asphalt Surfaces  | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00   |
| Parking Lot             | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00   |
| User Defined Industrial | 878  | 242  | 157  | 249,732 | 246  | 67.7 | 44.0 | 69,925 |

## 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                                     | 414,450                                      | 138,150                                      | 20,046                      |

### 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) |
|----------------------------------|----------------------|-----|--------|--------|-----------------------|
| Manufacturing                    | 1,717,100            | 346 | 0.0330 | 0.0040 | 760,394               |
| Unrefrigerated Warehouse-No Rail | 455,399              | 346 | 0.0330 | 0.0040 | 0.00                  |

|                         |         |     |        |        |      |
|-------------------------|---------|-----|--------|--------|------|
| Other Asphalt Surfaces  | 0.00    | 346 | 0.0330 | 0.0040 | 0.00 |
| Parking Lot             | 138,897 | 346 | 0.0330 | 0.0040 | 0.00 |
| User Defined Industrial | 0.00    | 346 | 0.0330 | 0.0040 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use                         | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|----------------------------------|-------------------------|--------------------------|
| Manufacturing                    | 41,393,750              | 747,510                  |
| Unrefrigerated Warehouse-No Rail | 22,500,625              | 402,506                  |
| Other Asphalt Surfaces           | 0.00                    | 0.00                     |
| Parking Lot                      | 0.00                    | 0.00                     |
| User Defined Industrial          | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use                         | Waste (ton/year) | Cogeneration (kWh/year) |
|----------------------------------|------------------|-------------------------|
| Manufacturing                    | 222              | —                       |
| Unrefrigerated Warehouse-No Rail | 91.5             | —                       |
| Other Asphalt Surfaces           | 0.00             | —                       |
| Parking Lot                      | 0.00             | —                       |
| User Defined Industrial          | 0.00             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

|                 |                                     |              |     |      |      |      |      |
|-----------------|-------------------------------------|--------------|-----|------|------|------|------|
| Industrial Park | Other commercial A/C and heat pumps | User Defined | 750 | 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 |
|----------------|-----------|-------------|----------------|---------------|------------|-------------|
|----------------|-----------|-------------|----------------|---------------|------------|-------------|

## 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 |
|---------------------|-----------|----------------|---------------|----------------|------------|-------------|
| Emergency Generator | Diesel    | 1.00           | 1.00          | 50.0           | 700        | 0.73        |
| Fire Pump           | Diesel    | 1.00           | 1.00          | 50.0           | 300        | 0.73        |
| Emergency Generator | Diesel    | 1.00           | 1.00          | 50.0           | 700        | 0.73        |
| Fire Pump           | Diesel    | 1.00           | 1.00          | 50.0           | 300        | 0.73        |

### 5.16.2. Process Boilers

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

## 5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
|----------------|-----------|

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

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

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

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

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 4.89                        | annual days of extreme heat                |
| Extreme Precipitation        | 4.25                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00                        | 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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 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                        | 24.9                            |
| AQ-PM                           | 81.5                            |
| AQ-DPM                          | 48.7                            |
| Drinking Water                  | —                               |
| Lead Risk Housing               | —                               |
| Pesticides                      | 54.7                            |
| Toxic Releases                  | 99.7                            |
| Traffic                         | 68.1                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 97.1                            |
| Groundwater                     | 96.2                            |
| Haz Waste Facilities/Generators | 99.8                            |
| Impaired Water Bodies           | 0.00                            |
| Solid Waste                     | 39.3                            |
| Sensitive Population            | —                               |
| Asthma                          | —                               |

|                                 |   |
|---------------------------------|---|
| Cardio-vascular                 | — |
| Low Birth Weights               | — |
| Socioeconomic Factor Indicators | — |
| Education                       | — |
| Housing                         | — |
| Linguistic                      | — |
| Poverty                         | — |
| Unemployment                    | — |

## 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          | —                               |
| Employed               | —                               |
| Median HI              | —                               |
| Education              | —                               |
| Bachelor's or higher   | —                               |
| High school enrollment | —                               |
| Preschool enrollment   | —                               |
| Transportation         | —                               |
| Auto Access            | —                               |
| Active commuting       | —                               |
| Social                 | —                               |
| 2-parent households    | —                               |
| Voting                 | —                               |
| Neighborhood           | —                               |
| Alcohol availability   | —                               |

|                                              |      |
|----------------------------------------------|------|
| Park access                                  | —    |
| Retail density                               | —    |
| Supermarket access                           | —    |
| Tree canopy                                  | —    |
| Housing                                      | —    |
| Homeownership                                | —    |
| Housing habitability                         | —    |
| Low-inc homeowner severe housing cost burden | —    |
| Low-inc renter severe housing cost burden    | —    |
| Uncrowded housing                            | —    |
| Health Outcomes                              | —    |
| Insured adults                               | —    |
| Arthritis                                    | 0.0  |
| Asthma ER Admissions                         | 99.9 |
| High Blood Pressure                          | 0.0  |
| Cancer (excluding skin)                      | 0.0  |
| Asthma                                       | 0.0  |
| Coronary Heart Disease                       | 0.0  |
| Chronic Obstructive Pulmonary Disease        | 0.0  |
| Diagnosed Diabetes                           | 0.0  |
| Life Expectancy at Birth                     | 0.0  |
| Cognitively Disabled                         | 0.0  |
| Physically Disabled                          | 0.0  |
| Heart Attack ER Admissions                   | 99.9 |
| Mental Health Not Good                       | 0.0  |
| Chronic Kidney Disease                       | 0.0  |
| Obesity                                      | 0.0  |
| Pedestrian Injuries                          | 0.0  |

|                                       |     |
|---------------------------------------|-----|
| Physical Health Not Good              | 0.0 |
| Stroke                                | 0.0 |
| Health Risk Behaviors                 | —   |
| Binge Drinking                        | 0.0 |
| Current Smoker                        | 0.0 |
| No Leisure Time for Physical Activity | 0.0 |
| Climate Change Exposures              | —   |
| Wildfire Risk                         | 0.0 |
| SLR Inundation Area                   | 0.0 |
| Children                              | 0.0 |
| Elderly                               | 0.0 |
| English Speaking                      | 0.0 |
| Foreign-born                          | 0.0 |
| Outdoor Workers                       | 0.0 |
| Climate Change Adaptive Capacity      | —   |
| Impervious Surface Cover              | 0.0 |
| Traffic Density                       | 0.0 |
| Traffic Access                        | 0.0 |
| Other Indices                         | —   |
| Hardship                              | 0.0 |
| Other Decision Support                | —   |
| 2016 Voting                           | 0.0 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                    | Result for Project Census Tract |
|---------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                        | —                               |
| Healthy Places Index Score for Project Location (b)                       | —                               |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | Yes                             |

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

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

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen                               | Justification                                                                                                                                                                                                                                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction: Construction Phases    | Schedule based information provided by Project Applicant                                                                                                                                                                                                             |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the Trip Generation.                                                                                                                                                                                           |
| Operations: Fleet Mix                | Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks                                                                                    |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                                                                                                     |
| Operations: Refrigerants             | Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.                                                                                                                                                  |
| Operations: Energy Use               | Project will not utilize natural gas for warehouse and manufacturing portion of the building. Natural Gas will be utilized for small office portion of the building (30,000 SF), as such NG estimates based on CalEEMod default NG usage for General Office Building |
| Land Use                             | Based on site plan and split between manufacturing and warehousing use                                                                                                                                                                                               |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases<br>Standard 8-hour work days                                                                                                                         |
| Construction: Trips and VMT          | Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction                                                                                                   |
| Construction: Architectural Coatings | SCAQMD Rule 1113                                                                                                                                                                                                                                                     |

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/11/2024
** File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Cons
CO\Cons CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 9818605 County_of_Los_Angeles
  POLLUTID CO
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "Cons CO.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION VOL1      VOLUME      378174.020   3747147.200      20.920
  LOCATION VOL2      VOLUME      378172.352   3747015.221      21.000
  LOCATION VOL3      VOLUME      378172.352   3746883.007      21.000
  LOCATION VOL4      VOLUME      378169.974   3746842.107      21.000
** Source Parameters **
  SRCPARAM VOL1      0.1195902381    5.000    30.637    1.400
  SRCPARAM VOL2      0.1195902381    5.000    30.637    1.400
  SRCPARAM VOL3      0.1195902381    5.000    30.637    1.400
  SRCPARAM VOL4      0.1195902381    5.000    30.637    1.400
  URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"

```

```

** WeekDays:
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT VOL1      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT VOL2      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT VOL3      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
  EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL4      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
  EMISFACT VOL4      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
  EMISFACT VOL4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

```

```

** Saturday:
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Cons CO.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE KHHR_V9_ADJU\KHHR_v9.SFC
  PROFFILE KHHR_V9_ADJU\KHHR_v9.PFL
  SURFDATA 3167 2012
  UAIRDATA 3190 2012
  PROFBASE 19.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
  RECTABLE 8 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "CONS CO.AD\01H1GALL.PLT" 31
  PLOTFILE 8 ALL 1ST "CONS CO.AD\08H1GALL.PLT" 32
  SUMMFILE "Cons CO.sum"
OU FINISHED

```



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

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

A Total of                    0 Fatal Error Message(s)  
A Total of                    2 Warning Message(s)  
A Total of                    0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186        133        MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
          0.50  
ME W187        133        MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

▲ \*\*\* AERMOD - VERSION 23132 \*\*\*        \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\*        09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\*        \*\*\*  
                                 \*\*\*        13:28:10

                                 PAGE    1  
\*\*\* MODELOPTs:    RegDFAULT   CONC   ELEV   FLGPOL   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        4 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  
\* CCVR\_Sub - Meteorological data includes CCVR substitutions  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model Accepts FLAGPOLE Receptor . Heights.  
\* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 4 Source(s); 1 Source Group(s); and 185  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4 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 Highest Short Term Values by Receptor (RECTABLE  
Keyword)  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing  
Hours  
b for Both Calm  
and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Cons CO.err

\*\*File for Summary of Results: Cons CO.sum

▲ \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 13:28:10

PAGE 2

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

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

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

|      |     |       |             |          |           |      |      |       |
|------|-----|-------|-------------|----------|-----------|------|------|-------|
| VOL1 |     | 0     | 0.11959E+00 | 378174.0 | 3747147.2 | 20.9 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL2 |     | 0     | 0.11959E+00 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL3 |     | 0     | 0.11959E+00 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL4 |     | 0     | 0.11959E+00 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

ALL VOL1 , VOL2 , VOL3 , VOL4  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

\*\*\*

URBAN ID URBAN POP

SOURCE IDs

9818605. VOL1 , VOL2 , VOL3 , VOL4  
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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01  
14 .1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - - -  
- - - - -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01  
14 .1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

|    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 |
| 6  | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |
| 9  | .1000E+01 | 10 | .1000E+01 | 11 | .1000E+01 | 12 | .1000E+01 | 13 | .1000E+01 |
| 14 | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 |    |           |    |           |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |

DAY OF WEEK = SATURDAY

|    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 |
| 6  | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 |
| 14 | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |

DAY OF WEEK = SUNDAY

|    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 1  | .0000E+00 | 2  | .0000E+00 | 3  | .0000E+00 | 4  | .0000E+00 | 5  | .0000E+00 |
| 6  | .0000E+00 | 7  | .0000E+00 | 8  | .0000E+00 |    |           |    |           |
| 9  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 | 13 | .0000E+00 |
| 14 | .0000E+00 | 15 | .0000E+00 | 16 | .0000E+00 |    |           |    |           |
| 17 | .0000E+00 | 18 | .0000E+00 | 19 | .0000E+00 | 20 | .0000E+00 | 21 | .0000E+00 |
| 22 | .0000E+00 | 23 | .0000E+00 | 24 | .0000E+00 |    |           |    |           |

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) \*

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 -----

DAY OF WEEK = WEEKDAY

|    |           |           |           |           |           |           |           |           |           |           |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1  | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4         | .0000E+00 | 5         | .0000E+00 |           |
| 6  | .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |           |           |           |           |
|    | 9         | .1000E+01 | 10        | .1000E+01 | 11        | .1000E+01 | 12        | .1000E+01 | 13        | .1000E+01 |
| 14 | .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |           |           |           |           |           |
|    | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| 22 | .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |           |           |           |           |

DAY OF WEEK = SATURDAY

|    |           |           |           |           |           |           |           |           |           |           |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1  | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4         | .0000E+00 | 5         | .0000E+00 |           |
| 6  | .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |           |           |           |           |
|    | 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12        | .0000E+00 | 13        | .0000E+00 |
| 14 | .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |           |           |           |           |
|    | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| 22 | .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |           |           |           |           |

DAY OF WEEK = SUNDAY

|    |           |           |           |           |           |           |           |           |           |           |
|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1  | .0000E+00 | 2         | .0000E+00 | 3         | .0000E+00 | 4         | .0000E+00 | 5         | .0000E+00 |           |
| 6  | .0000E+00 | 7         | .0000E+00 | 8         | .0000E+00 |           |           |           |           |           |
|    | 9         | .0000E+00 | 10        | .0000E+00 | 11        | .0000E+00 | 12        | .0000E+00 | 13        | .0000E+00 |
| 14 | .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |           |           |           |           |           |
|    | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| 22 | .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |           |           |           |           |

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

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

|                                  |       |       |       |             |
|----------------------------------|-------|-------|-------|-------------|
| ( 378289.8, 3747311.1,           | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8,      18.9,      18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7,           | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6,      19.0,      19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9,           | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0,      17.7,      17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1,           | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9,      17.9,      17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2,           | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7,      19.6,      19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9,           | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7,      20.0,      20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4,           | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3,      19.0,      19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2,           | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9,      17.3,      17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3,           | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6,      17.0,      17.0, | 0.0); |       |       |             |

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9, 19.3, 19.3, | 0.0); |       |       |             |
| ( 378136.3, 3746743.3, | 21.0, | 21.0, | 2.0); | ( 378268.7, |
| 3746735.6, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378256.3, 3746996.6, | 21.0, | 21.0, | 2.0); | ( 378249.4, |
| 3746847.9, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378309.8, 3747165.4, | 20.0, | 20.0, | 2.0); | ( 378513.4, |
| 3746995.0, 20.0, 20.0, | 2.0); |       |       |             |
| ( 378126.9, 3747243.5, | 20.8, | 20.8, | 2.0); | ( 378154.0, |
| 3747245.6, 20.5, 20.5, | 2.0); |       |       |             |
| ( 378197.0, 3747247.6, | 20.1, | 20.1, | 2.0); | ( 378227.9, |
| 3747244.7, 19.9, 19.9, | 2.0); |       |       |             |
| ( 378273.2, 3747244.4, | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3, 17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9, 19.3, 19.3, | 0.0); |       |       |             |
| ( 378129.1, 3747249.4, | 20.8, | 20.8, | 0.0); | ( 378159.5, |
| 3747247.1, 20.5, 20.5, | 0.0); |       |       |             |
| ( 378200.2, 3747247.3, | 20.0, | 20.0, | 0.0); | ( 378226.0, |
| 3747247.7, 19.9, 19.9, | 0.0); |       |       |             |



|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378283.7, 3747245.2, | 19.8, | 19.8, | 0.0); | ( 378052.8, |
| 3747257.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378116.4, 3747276.8, | 20.6, | 20.6, | 0.0); | ( 378117.3, |
| 3747316.0, 20.2, 20.2, | 0.0); |       |       |             |
| ( 378117.1, 3747344.8, | 20.1, | 20.1, | 0.0); | ( 378120.6, |
| 3747381.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378121.8, 3747450.2, | 19.7, | 19.7, | 0.0); | ( 378121.8, |
| 3747514.2, 19.1, 19.1, | 0.0); |       |       |             |
| ( 378118.2, 3747553.5, | 19.1, | 19.1, | 0.0); | ( 377945.4, |
| 3747435.0, 20.8, 20.8, | 0.0); |       |       |             |
| ( 378083.8, 3747686.0, | 19.0, | 19.0, | 0.0); | ( 378124.6, |
| 3747684.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378084.3, 3747702.2, | 19.0, | 19.0, | 0.0); | ( 378124.6, |
| 3747702.2, 18.9, 18.9, | 0.0); |       |       |             |
| ( 377995.0, 3747255.0, | 21.0, | 21.0, | 0.0); | ( 377953.5, |
| 3747255.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377915.9, 3747255.3, | 21.0, | 21.0, | 0.0); | ( 377825.5, |
| 3747276.2, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377934.7, 3747187.4, | 21.0, | 21.0, | 0.0); | ( 377998.0, |
| 3746860.9, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377996.5, 3746783.4, | 21.0, | 21.0, | 0.0); | ( 378132.8, |
| 3746732.6, 21.0, 21.0, | 0.0); |       |       |             |

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

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378131.1, 3746451.9, | 21.0, | 21.0, | 0.0); | ( 378131.1, |
| 3746579.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378131.1, 3746322.3, | 21.0, | 21.0, | 0.0); | ( 378138.1, |
| 3746150.8, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378001.7, 3746015.9, | 21.0, | 21.0, | 0.0); | ( 378290.1, |
| 3746060.7, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378102.5, 3745973.7, | 21.0, | 21.0, | 0.0); | ( 378136.7, |
| 3745937.8, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378064.1, 3745931.0, | 21.0, | 21.0, | 0.0); | ( 378057.5, |
| 3745971.0, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378020.8, 3745925.6, | 21.0, | 21.0, | 0.0); | ( 378098.0, |
| 3745892.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377945.7, 3745896.2, | 21.0, | 21.0, | 0.0); | ( 377911.0, |
| 3745974.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377899.2, 3745974.3, | 21.0, | 21.0, | 0.0); | ( 377886.2, |
| 3745890.5, 21.0, 21.0, | 0.0); |       |       |             |

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378905.6, 3746007.8, | 21.0, | 21.0, | 0.0); | ( 378849.3, |
| 3745966.1, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378850.6, 3745926.3, | 21.0, | 21.0, | 0.0); | ( 378904.8, |
| 3745929.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378905.1, 3745968.2, | 21.0, | 21.0, | 0.0); | ( 378792.6, |
| 3745935.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378835.4, 3745898.0, | 21.0, | 21.0, | 0.0); | ( 378898.1, |
| 3745978.1, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378905.6, 3746139.8, | 21.0, | 21.0, | 0.0); | ( 378989.8, |
| 3746015.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378927.5, 3745927.9, | 21.0, | 21.0, | 0.0); | ( 378785.6, |
| 3745990.2, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378968.5, 3745925.0, | 21.0, | 21.0, | 0.0); | ( 378822.6, |
| 3745867.9, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378827.3, 3746174.7, | 21.0, | 21.0, | 0.0); | ( 378905.4, |
| 3746200.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378801.6, 3746268.5, | 21.0, | 21.0, | 0.0); | ( 378917.5, |
| 3746278.5, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378990.9, 3746201.1, | 21.0, | 21.0, | 0.0); | ( 378819.3, |
| 3746393.8, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378915.1, 3746385.1, | 20.6, | 20.6, | 0.0); | ( 378802.6, |
| 3746328.0, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378914.1, 3746458.5, | 20.2, | 20.2, | 0.0); | ( 378821.2, |
| 3746549.1, 20.2, 20.2, | 0.0); |       |       |             |
| ( 378821.6, 3746480.8, | 20.9, | 20.9, | 0.0); | ( 378912.3, |
| 3746735.4, 18.8, 18.8, | 0.0); |       |       |             |
| ( 378824.3, 3746713.0, | 19.9, | 19.9, | 0.0); | ( 378923.0, |
| 3746779.8, 18.6, 18.6, | 0.0); |       |       |             |
| ( 378695.8, 3746773.1, | 20.0, | 20.0, | 0.0); | ( 378680.5, |
| 3746992.7, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378853.8, 3747315.7, | 17.0, | 17.0, | 0.0); | ( 378645.5, |
| 3747261.8, 18.0, 18.0, | 0.0); |       |       |             |
| ( 378640.8, 3747344.0, | 17.7, | 17.7, | 0.0); | ( 378507.7, |
| 3747524.4, 17.8, 17.8, | 0.0); |       |       |             |
| ( 378555.9, 3747501.8, | 17.5, | 17.5, | 0.0); | ( 378866.8, |
| 3747547.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378884.0, 3747599.6, | 17.0, | 17.0, | 0.0); | ( 378918.0, |
| 3747592.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378917.3, 3747541.5, | 17.0, | 17.0, | 0.0); | ( 378840.8, |
| 3747574.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378988.7, 3747636.5, | 17.0, | 17.0, | 0.0); | ( 378848.1, |
| 3747632.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378841.0, 3747611.2, | 17.0, | 17.0, | 0.0); | ( 378928.5, |
| 3747713.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378927.1, 3747552.1, | 17.0, | 17.0, | 0.0); | ( 378917.2, |
| 3747527.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379036.5, 3747187.1, | 17.0, | 17.0, | 0.0); | ( 379090.8, |
| 3747248.4, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379099.4, 3747186.0, | 17.0, | 17.0, | 0.0); | ( 379204.3, |
| 3747183.2, 17.0, 17.0, | 0.0); |       |       |             |

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( 379162.7, 3747246.5, 17.0, 17.0, 0.0); ( 379279.4,
3747178.9, 17.0, 17.0, 0.0);
( 379301.8, 3747271.6, 17.0, 17.0, 0.0); ( 379235.4,
3747244.9, 17.0, 17.0, 0.0);
( 379422.0, 3747246.0, 17.0, 17.0, 0.0); ( 379458.5,
3747191.3, 17.0, 17.0, 0.0);
( 379434.3, 3747101.5, 17.0, 17.0, 0.0); ( 379478.2,
3747231.8, 17.0, 17.0, 0.0);
( 379500.7, 3747247.5, 17.0, 17.0, 0.0); ( 379596.7,
3747228.7, 17.0, 17.0, 0.0);
( 379559.6, 3747187.2, 17.0, 17.0, 0.0); ( 379599.4,
3747182.1, 17.0, 17.0, 0.0);
( 379528.0, 3747129.5, 17.0, 17.0, 0.0); ( 379645.2,
3747183.5, 17.0, 17.0, 0.0);
( 379678.1, 3747268.7, 17.0, 17.0, 0.0); ( 379687.5,
3747141.5, 17.0, 17.0, 0.0);
( 379728.0, 3747160.4, 17.0, 17.0, 0.0); ( 379841.9,
3747187.9, 17.0, 17.0, 0.0);
( 379834.7, 3747231.1, 17.0, 17.0, 0.0); ( 379835.9,
3747433.8, 17.0, 17.0, 0.0);
( 379790.1, 3747436.9, 17.0, 17.0, 0.0); ( 379790.7,
3747506.4, 17.0, 17.0, 0.0);
( 379838.6, 3747509.9, 17.0, 17.0, 0.0); ( 379845.6,
3747562.9, 17.0, 17.0, 0.0);
^ *** AERMOD - VERSION 23132 *** *** C:\Users\adadabhoy\Desktop\AERMOD\15795
Sequoia Commerce Center\1579 *** 09/11/24
*** AERMET - VERSION 16216 *** ***
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

```

( 379789.4, 3747527.2, 17.0, 17.0, 0.0); ( 377635.4,
3745747.0, 21.0, 21.0, 0.0);
( 378209.5, 3746740.1, 21.0, 21.0, 2.0); ( 378248.3,
3746798.0, 21.0, 21.0, 2.0);
( 378254.2, 3746886.9, 21.0, 21.0, 2.0);

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Sequoia Commerce Center\1579 *** 09/11/24
*** AERMET - VERSION 16216 *** ***
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

## \*\*\* METEOROLOGICAL DAYS SELECTED FOR

(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

CATEGORIES \*\*\*

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

```

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Sequoia Commerce Center\1579 ***      09/11/24
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***      ***
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\*\*\* MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ U\*

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

## DATA \*\*\*

```
Surface file:      KHRH_V9_ADJU\KHRH_v9.SFC
                  Met Version: 16216
Profile file:      KHRH_V9_ADJU\KHRH_v9.PFL

Surface format: FREE

Profile format: FREE
```

Name: UNKNOWN

Name: UNKNOWN

Year: 2012

|        |     |    |     |    |     |    |    |       |       |       |     |     |    |       |
|--------|-----|----|-----|----|-----|----|----|-------|-------|-------|-----|-----|----|-------|
| YR     | MO  | DY | JDY | HR | H0  | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN |
| ALBEDO | REF | WS | WD  | HT | REF | TA | HT |       |       |       |     |     |    |       |

|      |    |      |   |      |        |        |        |        |       |       |          |      |      |
|------|----|------|---|------|--------|--------|--------|--------|-------|-------|----------|------|------|
| 12   | 01 | 01   | 1 | 01   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 1.00 |    | 0.00 |   | 0.   | 7.9    | 283.8  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 02   | -2.1   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |
| 1.00 |    | 0.53 |   | 305. | 7.9    | 283.1  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 03   | -9.0   | 0.127  | -9.000 | -9.000 | -999. | 109.  | 20.8     | 0.24 | 2.79 |
| 1.00 |    | 1.18 |   | 323. | 7.9    | 282.5  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 04   | -2.2   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |
| 1.00 |    | 0.53 |   | 296. | 7.9    | 282.0  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 05   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 1.00 |    | 0.00 |   | 0.   | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 06   | -6.0   | 0.103  | -9.000 | -9.000 | -999. | 80.   | 16.7     | 0.24 | 2.79 |
| 1.00 |    | 0.97 |   | 321. | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 07   | -4.3   | 0.088  | -9.000 | -9.000 | -999. | 63.   | 14.4     | 0.24 | 2.79 |
| 1.00 |    | 0.82 |   | 313. | 7.9    | 280.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 08   | 15.7   | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 0.55 |    | 0.00 |   | 0.   | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 09   | 35.7   | 0.115  | 0.353  | 0.013  | 45.   | 93.   | -3.8     | 0.24 | 2.79 |
| 0.32 |    | 0.63 |   | 179. | 7.9    | 285.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 10   | 109.0  | 0.141  | 0.727  | 0.009  | 128.  | 127.  | -2.3     | 0.24 | 2.79 |
| 0.24 |    | 0.70 |   | 170. | 7.9    | 289.2  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 11   | 164.4  | 0.149  | 1.186  | 0.005  | 370.  | 138.  | -1.8     | 0.24 | 2.79 |
| 0.21 |    | 0.70 |   | 222. | 7.9    | 297.0  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 12   | 191.7  | 0.163  | 1.525  | 0.005  | 672.  | 158.  | -2.1     | 0.24 | 2.79 |
| 0.20 |    | 0.79 |   | 12.  | 7.9    | 299.9  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 13   | 191.3  | 0.170  | 1.819  | 0.005  | 1144. | 168.  | -2.3     | 0.24 | 2.79 |
| 0.20 |    | 0.84 |   | 260. | 7.9    | 300.9  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 14   | 161.6  | 0.344  | 1.852  | 0.005  | 1428. | 483.  | -22.7    | 0.24 | 2.79 |
| 0.21 |    | 2.49 |   | 260. | 7.9    | 298.8  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 15   | 105.0  | 0.367  | 1.638  | 0.005  | 1521. | 534.  | -42.8    | 0.24 | 2.79 |
| 0.24 |    | 2.84 |   | 292. | 7.9    | 293.8  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 16   | 29.7   | 0.383  | 1.079  | 0.005  | 1539. | 570.  | -172.5   | 0.24 | 2.79 |
| 0.33 |    | 3.22 |   | 276. | 7.9    | 290.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 17   | -24.8  | 0.287  | -9.000 | -9.000 | -999. | 374.  | 90.3     | 0.24 | 2.79 |
| 0.59 |    | 2.52 |   | 284. | 7.9    | 289.2  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 18   | -26.7  | 0.269  | -9.000 | -9.000 | -999. | 336.  | 79.8     | 0.24 | 2.79 |
| 1.00 |    | 2.38 |   | 285. | 7.9    | 287.5  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 19   | -10.2  | 0.137  | -9.000 | -9.000 | -999. | 133.  | 22.7     | 0.24 | 2.79 |
| 1.00 |    | 1.26 |   | 287. | 7.9    | 287.5  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 20   | -6.2   | 0.106  | -9.000 | -9.000 | -999. | 83.   | 17.2     | 0.24 | 2.79 |
| 1.00 |    | 0.99 |   |      |        |        |        |        |       |       |          |      |      |

|          |      |       |       |        |        |       |      |      |      |      |
|----------|------|-------|-------|--------|--------|-------|------|------|------|------|
| 12 01 01 | 1 21 | -7.6  | 0.117 | -9.000 | -9.000 | -999. | 96.  | 19.1 | 0.24 | 2.79 |
| 1.00     | 1.09 | 326.  | 7.9   | 286.4  | 2.0    |       |      |      |      |      |
| 12 01 01 | 1 22 | -6.8  | 0.110 | -9.000 | -9.000 | -999. | 88.  | 18.0 | 0.24 | 2.79 |
| 1.00     | 1.03 | 297.  | 7.9   | 285.9  | 2.0    |       |      |      |      |      |
| 12 01 01 | 1 23 | -19.9 | 0.200 | -9.000 | -9.000 | -999. | 214. | 43.9 | 0.24 | 2.79 |
| 1.00     | 1.79 | 290.  | 7.9   | 285.9  | 2.0    |       |      |      |      |      |
| 12 01 01 | 1 24 | -19.6 | 0.196 | -9.000 | -9.000 | -999. | 209. | 42.3 | 0.24 | 2.79 |
| 1.00     | 1.76 | 282.  | 7.9   | 285.9  | 2.0    |       |      |      |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 7.9    | 1 | -999. | -99.00 | 283.8   | 99.0   | -99.00 | -99.00 |

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

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 378289.83   | 3747311.07  | 19.36057   | (13112216) | 378292.28   |
| 3747493.83  | 5.56648     | (13112216) |            |             |
| 378289.93   | 3747408.68  | 9.94246    | (13112216) | 378291.63   |
| 3747328.59  | 17.29244    | (13112216) |            |             |
| 378291.42   | 3747417.90  | 9.36753    | (13112216) | 378589.39   |
| 3747341.97  | 5.07811     | (13112016) |            |             |
| 378519.42   | 3747305.13  | 6.37356    | (13112016) | 378519.01   |
| 3747395.88  | 6.29360     | (13112216) |            |             |
| 378517.98   | 3747292.17  | 6.65941    | (13112016) | 378347.39   |
| 3747259.66  | 17.29868    | (13112216) |            |             |
| 378291.17   | 3747266.91  | 24.49234   | (13112216) | 378360.59   |
| 3747202.71  | 15.56935    | (13112216) |            |             |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378227.93  | 3747366.41 | 9.84522    | (13112216) | 378207.82 |
| 3747536.30 | 3.98460    | (14121516) |            |           |
| 378313.28  | 3747203.17 | 22.99618   | (13112216) | 378919.28 |
| 3747184.91 | 2.29075    | (16011916) |            |           |
| 378921.54  | 3747245.33 | 2.39062    | (13112016) | 378937.65 |
| 3747441.57 | 2.65361    | (13112016) |            |           |
| 378865.93  | 3747523.67 | 2.34529    | (13112016) | 378731.88 |
| 3747454.64 | 3.05738    | (13112016) |            |           |
| 378976.87  | 3747269.00 | 2.10332    | (13112016) | 378875.27 |
| 3747301.16 | 3.05357    | (13112016) |            |           |
| 378922.56  | 3747028.97 | 2.33107    | (12110816) | 378056.86 |
| 3747325.10 | 14.52424   | (12112816) |            |           |
| 379168.53  | 3747645.58 | 1.55094    | (13112016) | 377796.45 |
| 3747904.89 | 2.19859    | (12112816) |            |           |
| 378136.31  | 3746743.35 | 33.56596   | (14121615) | 378268.72 |
| 3746735.61 | 22.32708   | (16010711) |            |           |
| 378256.33  | 3746996.56 | 43.95750   | (13112216) | 378249.36 |
| 3746847.89 | 54.99166   | (16122016) |            |           |
| 378309.76  | 3747165.37 | 23.18676   | (13112216) | 378513.41 |
| 3746995.01 | 6.89631    | (13112016) |            |           |
| 378126.89  | 3747243.53 | 30.42253   | (12112816) | 378154.05 |
| 3747245.58 | 26.98467   | (13122016) |            |           |
| 378196.98  | 3747247.62 | 33.86793   | (13112216) | 378227.94 |
| 3747244.70 | 38.32018   | (13112216) |            |           |
| 378273.20  | 3747244.41 | 30.75144   | (13112216) | 378052.71 |
| 3747256.38 | 18.30172   | (12112816) |            |           |
| 378289.83  | 3747311.07 | 19.36057   | (13112216) | 378292.28 |
| 3747493.83 | 5.56648    | (13112216) |            |           |
| 378289.93  | 3747408.68 | 9.94246    | (13112216) | 378291.63 |
| 3747328.59 | 17.29244   | (13112216) |            |           |
| 378291.42  | 3747417.90 | 9.36753    | (13112216) | 378589.39 |
| 3747341.97 | 5.07811    | (13112016) |            |           |
| 378519.42  | 3747305.13 | 6.37356    | (13112016) | 378519.01 |
| 3747395.88 | 6.29360    | (13112216) |            |           |
| 378517.98  | 3747292.17 | 6.65941    | (13112016) | 378347.39 |
| 3747259.66 | 17.29868   | (13112216) |            |           |
| 378291.17  | 3747266.91 | 24.49234   | (13112216) | 378360.59 |
| 3747202.71 | 15.56935   | (13112216) |            |           |
| 378227.93  | 3747366.41 | 9.84522    | (13112216) | 378207.82 |
| 3747536.30 | 3.98460    | (14121516) |            |           |
| 378313.28  | 3747203.17 | 22.99618   | (13112216) | 378919.28 |
| 3747184.91 | 2.29075    | (16011916) |            |           |
| 378921.54  | 3747245.33 | 2.39062    | (13112016) | 378937.65 |
| 3747441.57 | 2.65361    | (13112016) |            |           |
| 378865.93  | 3747523.67 | 2.34529    | (13112016) | 378731.88 |
| 3747454.64 | 3.05738    | (13112016) |            |           |
| 378976.87  | 3747269.00 | 2.10332    | (13112016) | 378875.27 |
| 3747301.16 | 3.05357    | (13112016) |            |           |
| 378922.56  | 3747028.97 | 2.33107    | (12110816) | 378056.86 |
| 3747325.10 | 14.52424   | (12112816) |            |           |

|            |                     |          |            |           |
|------------|---------------------|----------|------------|-----------|
| 379168.53  | 3747645.58          | 1.55094  | (13112016) | 377796.45 |
| 3747904.89 | 2.19859 (12112816)  |          |            |           |
| 378129.14  | 3747249.41          | 27.22554 | (12112816) | 378159.47 |
| 3747247.15 | 25.61955 (14121516) |          |            |           |
| 378200.25  | 3747247.32          | 34.26299 | (13112216) | 378226.05 |
| 3747247.67 | 36.35034 (13112216) |          |            |           |
| 378283.74  | 3747245.23          | 28.13669 | (13112216) | 378052.80 |
| 3747257.43 | 17.96075 (12112816) |          |            |           |
| 378116.42  | 3747276.78          | 20.59044 | (12112816) | 378117.29 |
| 3747315.99 | 14.03287 (13122016) |          |            |           |
| 378117.11  | 3747344.75          | 11.60663 | (13122016) | 378120.60 |
| 3747381.70 | 9.15103 (13122016)  |          |            |           |
| 378121.82  | 3747450.20          | 6.82485  | (14121516) | 378121.82 |
| 3747514.16 | 5.38530 (14121516)  |          |            |           |
| 378118.16  | 3747553.55          | 4.69775  | (14121516) | 377945.41 |
| 3747434.99 | 7.81290 (12112816)  |          |            |           |
| 378083.80  | 3747685.98          | 3.07198  | (14121516) | 378124.58 |
| 3747684.58 | 3.20085 (14121516)  |          |            |           |

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

| X-COORD (M) | Y-COORD (M)         | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|---------------------|------------|------------|-------------|
| Y-COORD (M) | CONC                | (YYMMDDHH) |            |             |
| - - - - -   | - - - - -           | - - - - -  | - - - - -  | - - - - -   |
| 378084.32   | 3747702.19          | 2.95870    | (14121516) | 378124.58   |
| 3747702.19  | 3.05401 (14121516)  |            |            |             |
| 377995.02   | 3747255.00          | 13.18058   | (12112916) | 377953.54   |
| 3747255.45  | 11.02698 (12112916) |            |            |             |
| 377915.91   | 3747255.30          | 9.62342    | (12112916) | 377825.47   |
| 3747276.19  | 7.30411 (12112916)  |            |            |             |
| 377934.72   | 3747187.43          | 10.91326   | (12112916) | 377997.97   |
| 3746860.90  | 15.49419 (13121911) |            |            |             |
| 377996.55   | 3746783.41          | 20.77847   | (14121616) | 378132.80   |



|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3746732.61 | 28.26458   | (14121615) |                      |
| 378131.09  | 3746451.89 | 4.85248    | (16121916) 378131.09 |
| 3746579.33 | 8.66254    | (16121916) |                      |
| 378131.15  | 3746322.30 | 3.07701    | (16121916) 378138.09 |
| 3746150.82 | 1.95571    | (16121916) |                      |
| 378001.74  | 3746015.86 | 1.61193    | (16120216) 378290.15 |
| 3746060.70 | 2.01894    | (16121916) |                      |
| 378102.45  | 3745973.71 | 1.19138    | (16120216) 378136.71 |
| 3745937.76 | 1.19480    | (16121916) |                      |
| 378064.09  | 3745931.01 | 1.23952    | (16120216) 378057.50 |
| 3745971.00 | 1.37486    | (16120216) |                      |
| 378020.77  | 3745925.59 | 1.33966    | (16120216) 378097.98 |
| 3745892.30 | 1.01137    | (16120216) |                      |
| 377945.73  | 3745896.16 | 1.27963    | (16120216) 377910.99 |
| 3745974.33 | 1.31677    | (16120216) |                      |
| 377899.16  | 3745974.33 | 1.26839    | (16120216) 377886.24 |
| 3745890.54 | 1.12693    | (16120216) |                      |
| 378905.58  | 3746007.82 | 0.94658    | (14122516) 378849.35 |
| 3745966.07 | 0.90182    | (14122516) |                      |
| 378850.56  | 3745926.26 | 0.84244    | (14123116) 378904.85 |
| 3745929.40 | 0.84773    | (14122516) |                      |
| 378905.09  | 3745968.24 | 0.90097    | (14122516) 378792.65 |
| 3745935.43 | 0.93698    | (14123116) |                      |
| 378835.36  | 3745898.03 | 0.85258    | (14123116) 378898.10 |
| 3745978.14 | 0.91702    | (14122516) |                      |
| 378905.58  | 3746139.80 | 1.07010    | (12121816) 378989.79 |
| 3746015.30 | 0.86153    | (12121816) |                      |
| 378927.53  | 3745927.95 | 0.84178    | (14122516) 378785.65 |
| 3745990.20 | 0.99066    | (14123116) |                      |
| 378968.55  | 3745925.05 | 0.81796    | (14122516) 378822.57 |
| 3745867.87 | 0.84595    | (14123116) |                      |
| 378827.29  | 3746174.68 | 1.23285    | (12121816) 378905.44 |
| 3746200.40 | 1.09079    | (12121816) |                      |
| 378801.57  | 3746268.53 | 1.40616    | (12121816) 378917.46 |
| 3746278.55 | 0.99784    | (12121816) |                      |
| 378990.94  | 3746201.07 | 0.84977    | (12121816) 378819.28 |
| 3746393.77 | 1.39939    | (14120116) |                      |
| 378915.13  | 3746385.08 | 1.23209    | (14120116) 378802.58 |
| 3746327.97 | 1.40886    | (12121816) |                      |
| 378914.07  | 3746458.46 | 1.36876    | (16122816) 378821.19 |
| 3746549.14 | 2.12462    | (15122816) |                      |
| 378821.59  | 3746480.77 | 1.65243    | (14120116) 378912.35 |
| 3746735.38 | 2.62772    | (15122816) |                      |
| 378824.34  | 3746712.99 | 3.21965    | (15122816) 378922.96 |
| 3746779.78 | 2.38380    | (15122816) |                      |
| 378695.85  | 3746773.10 | 4.23981    | (15122816) 378680.53 |
| 3746992.74 | 3.96129    | (16011916) |                      |
| 378853.81  | 3747315.72 | 3.25916    | (13112016) 378645.51 |
| 3747261.85 | 5.37553    | (13112016) |                      |
| 378640.80  | 3747343.96 | 4.72750    | (13112016) 378507.67 |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3747524.45 | 5.89648    | (13112216) |                      |
| 378555.93  | 3747501.76 | 5.23739    | (13112216) 378866.77 |
| 3747547.93 | 2.14489    | (13112016) |                      |
| 378884.04  | 3747599.56 | 1.73603    | (13112016) 378918.04 |
| 3747592.76 | 1.83210    | (13112016) |                      |
| 378917.34  | 3747541.50 | 2.19919    | (13112016) 378840.80 |
| 3747574.80 | 1.87570    | (13112016) |                      |
| 378988.66  | 3747636.53 | 1.60014    | (13112016) 378848.12 |
| 3747632.69 | 1.60245    | (12112815) |                      |
| 378840.97  | 3747611.24 | 1.67471    | (12112815) 378928.50 |
| 3747713.24 | 1.31634    | (12112815) |                      |
| 378927.11  | 3747552.13 | 2.12426    | (13112016) 378917.20 |
| 3747527.25 | 2.29409    | (13112016) |                      |
| 379036.52  | 3747187.14 | 1.92833    | (16011916) 379090.75 |
| 3747248.44 | 1.66201    | (16011916) |                      |
| 379099.40  | 3747185.96 | 1.75991    | (16011916) 379204.32 |
| 3747183.21 | 1.50462    | (16011916) |                      |
| 379162.67  | 3747246.48 | 1.53278    | (16011916) 379279.38 |
| 3747178.89 | 1.33887    | (16011916) |                      |
| 379301.78  | 3747271.63 | 1.26728    | (16011916) 379235.37 |
| 3747244.91 | 1.40668    | (16011916) |                      |

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

| X-COORD (M) |            | Y-COORD (M) |            | CONC | (YYMMDDHH) | X-COORD (M) |
|-------------|------------|-------------|------------|------|------------|-------------|
| Y-COORD (M) | CONC       | (YYMMDDHH)  |            |      |            |             |
| 379422.01   | 3747246.05 | 1.11216     | (16011916) |      |            | 379458.45   |
| 3747191.27  | 1.04936    | (12110816)  |            |      |            |             |
| 379434.32   | 3747101.49 | 1.06222     | (12110816) |      |            | 379478.24   |
| 3747231.81  | 1.02994    | (16011916)  |            |      |            |             |
| 379500.69   | 3747247.50 | 1.00479     | (16011916) |      |            | 379596.74   |
| 3747228.67  | 0.88135    | (12110816)  |            |      |            |             |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 379559.58  | 3747187.16 | 0.93558    | (12110816) | 379599.40 |
| 3747182.10 | 0.89392    | (12110816) |            |           |
| 379527.96  | 3747129.48 | 0.95771    | (12110816) | 379645.25 |
| 3747183.54 | 0.84799    | (12110816) |            |           |
| 379678.07  | 3747268.74 | 0.80774    | (16011916) | 379687.49 |
| 3747141.55 | 0.78927    | (12110816) |            |           |
| 379728.03  | 3747160.37 | 0.76268    | (12110816) | 379841.94 |
| 3747187.89 | 0.68045    | (12110816) |            |           |
| 379834.70  | 3747231.09 | 0.69117    | (12110816) | 379835.94 |
| 3747433.82 | 0.64387    | (16011916) |            |           |
| 379790.14  | 3747436.93 | 0.66174    | (16011916) | 379790.73 |
| 3747506.45 | 0.57424    | (16011916) |            |           |
| 379838.60  | 3747509.86 | 0.55891    | (16011916) | 379845.57 |
| 3747562.92 | 0.52764    | (12121416) |            |           |
| 379789.40  | 3747527.20 | 0.55275    | (12121416) | 377635.37 |
| 3745747.00 | 0.75422    | (14121615) |            |           |
| 378209.49  | 3746740.07 | 38.53445   | (16121916) | 378248.32 |
| 3746798.00 | 41.00980   | (16010711) |            |           |
| 378254.25  | 3746886.86 | 60.71496   | (13112016) |           |

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

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 378289.83   | 3747311.07  | 4.00573    | (16050516) | 378292.28   |
| 3747493.83  | 1.02118     | (15042216) |            |             |
| 378289.93   | 3747408.68  | 1.72469    | (15042216) | 378291.63   |
| 3747328.59  | 3.33955     | (16050516) |            |             |
| 378291.42   | 3747417.90  | 1.62284    | (15042216) | 378589.39   |
| 3747341.97  | 2.09437     | (13112016) |            |             |
| 378519.42   | 3747305.13  | 2.73778    | (13112016) | 378519.01   |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3747395.88 | 1.85566    | (13050616) |                      |
| 378517.98  | 3747292.17 | 2.87200    | (13112016) 378347.39 |
| 3747259.66 | 5.73082    | (13112016) |                      |
| 378291.17  | 3747266.91 | 6.38904    | (16050516) 378360.59 |
| 3747202.71 | 6.93357    | (12110816) |                      |
| 378227.93  | 3747366.41 | 2.23598    | (12102216) 378207.82 |
| 3747536.30 | 0.93091    | (12102216) |                      |
| 378313.28  | 3747203.17 | 9.71326    | (13112016) 378919.28 |
| 3747184.91 | 1.21334    | (12050116) |                      |
| 378921.54  | 3747245.33 | 1.12147    | (12050116) 378937.65 |
| 3747441.57 | 0.99275    | (13112016) |                      |
| 378865.93  | 3747523.67 | 0.87044    | (13112016) 378731.88 |
| 3747454.64 | 1.18317    | (13112016) |                      |
| 378976.87  | 3747269.00 | 0.99683    | (12043016) 378875.27 |
| 3747301.16 | 1.22013    | (13112016) |                      |
| 378922.56  | 3747028.97 | 1.14039    | (12042316) 378056.86 |
| 3747325.10 | 5.52293    | (13043016) |                      |
| 379168.53  | 3747645.58 | 0.55356    | (13112016) 377796.45 |
| 3747904.89 | 0.59572    | (12112816) |                      |
| 378136.31  | 3746743.35 | 16.48546   | (16121916) 378268.72 |
| 3746735.61 | 12.11587   | (14122516) |                      |
| 378256.33  | 3746996.56 | 19.87410   | (12110816) 378249.36 |
| 3746847.89 | 30.56344   | (12042316) |                      |
| 378309.76  | 3747165.37 | 11.46647   | (12110816) 378513.41 |
| 3746995.01 | 3.99550    | (12050116) |                      |
| 378126.89  | 3747243.53 | 14.72815   | (13043016) 378154.05 |
| 3747245.58 | 14.38542   | (13043016) |                      |
| 378196.98  | 3747247.62 | 9.07123    | (13043016) 378227.94 |
| 3747244.70 | 9.22448    | (16050516) |                      |
| 378273.20  | 3747244.41 | 8.80270    | (13112016) 378052.71 |
| 3747256.38 | 7.96499    | (13043016) |                      |
| 378289.83  | 3747311.07 | 4.00573    | (16050516) 378292.28 |
| 3747493.83 | 1.02118    | (15042216) |                      |
| 378289.93  | 3747408.68 | 1.72469    | (15042216) 378291.63 |
| 3747328.59 | 3.33955    | (16050516) |                      |
| 378291.42  | 3747417.90 | 1.62284    | (15042216) 378589.39 |
| 3747341.97 | 2.09437    | (13112016) |                      |
| 378519.42  | 3747305.13 | 2.73778    | (13112016) 378519.01 |
| 3747395.88 | 1.85566    | (13050616) |                      |
| 378517.98  | 3747292.17 | 2.87200    | (13112016) 378347.39 |
| 3747259.66 | 5.73082    | (13112016) |                      |
| 378291.17  | 3747266.91 | 6.38904    | (16050516) 378360.59 |
| 3747202.71 | 6.93357    | (12110816) |                      |
| 378227.93  | 3747366.41 | 2.23598    | (12102216) 378207.82 |
| 3747536.30 | 0.93091    | (12102216) |                      |
| 378313.28  | 3747203.17 | 9.71326    | (13112016) 378919.28 |
| 3747184.91 | 1.21334    | (12050116) |                      |
| 378921.54  | 3747245.33 | 1.12147    | (12050116) 378937.65 |
| 3747441.57 | 0.99275    | (13112016) |                      |
| 378865.93  | 3747523.67 | 0.87044    | (13112016) 378731.88 |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 3747454.64 | 1.18317    | (13112016) |            |           |
| 378976.87  | 3747269.00 | 0.99683    | (12043016) | 378875.27 |
| 3747301.16 | 1.22013    | (13112016) |            |           |
| 378922.56  | 3747028.97 | 1.14039    | (12042316) | 378056.86 |
| 3747325.10 | 5.52293    | (13043016) |            |           |
| 379168.53  | 3747645.58 | 0.55356    | (13112016) | 377796.45 |
| 3747904.89 | 0.59572    | (12112816) |            |           |
| 378129.14  | 3747249.41 | 13.44941   | (13043016) | 378159.47 |
| 3747247.15 | 13.56119   | (13043016) |            |           |
| 378200.25  | 3747247.32 | 8.70959    | (13043016) | 378226.05 |
| 3747247.67 | 8.64875    | (16050516) |            |           |
| 378283.74  | 3747245.23 | 8.37287    | (13112016) | 378052.80 |
| 3747257.43 | 7.85561    | (13043016) |            |           |
| 378116.42  | 3747276.78 | 9.48436    | (13043016) | 378117.29 |
| 3747315.99 | 6.29537    | (13043016) |            |           |
| 378117.11  | 3747344.75 | 4.79329    | (13043016) | 378120.60 |
| 3747381.70 | 3.44988    | (13043016) |            |           |
| 378121.82  | 3747450.20 | 2.08086    | (13043016) | 378121.82 |
| 3747514.16 | 1.40954    | (13043016) |            |           |
| 378118.16  | 3747553.55 | 1.15818    | (13043016) | 377945.41 |
| 3747434.99 | 2.40564    | (13043016) |            |           |
| 378083.80  | 3747685.98 | 0.72476    | (13043016) | 378124.58 |
| 3747684.58 | 0.64765    | (13122016) |            |           |

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

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 378084.32   | 3747702.19  | 0.67734    | (13122016) | 378124.58   |
| 3747702.19  | 0.60902     | (13122016) |            |             |
| 377995.02   | 3747255.00  | 6.22559    | (12112916) | 377953.54   |
| 3747255.45  | 5.29566     | (12112916) |            |             |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 377915.91  | 3747255.30 | 4.63110    | (12112916) | 377825.47 |
| 3747276.19 | 3.31090    | (12112916) |            |           |
| 377934.72  | 3747187.43 | 5.87893    | (12112916) | 377997.97 |
| 3746860.90 | 9.41554    | (14121616) |            |           |
| 377996.55  | 3746783.41 | 10.60381   | (14121616) | 378132.80 |
| 3746732.61 | 13.42452   | (16121916) |            |           |
| 378131.09  | 3746451.89 | 2.15651    | (16121916) | 378131.09 |
| 3746579.33 | 4.04863    | (16121916) |            |           |
| 378131.15  | 3746322.30 | 1.31866    | (16121916) | 378138.09 |
| 3746150.82 | 0.79225    | (16121916) |            |           |
| 378001.74  | 3746015.86 | 0.62802    | (16120216) | 378290.15 |
| 3746060.70 | 0.57817    | (16121916) |            |           |
| 378102.45  | 3745973.71 | 0.54761    | (16120216) | 378136.71 |
| 3745937.76 | 0.48319    | (16121916) |            |           |
| 378064.09  | 3745931.01 | 0.53140    | (16120216) | 378057.50 |
| 3745971.00 | 0.57802    | (16120216) |            |           |
| 378020.77  | 3745925.59 | 0.53833    | (16120216) | 378097.98 |
| 3745892.30 | 0.46963    | (16120216) |            |           |
| 377945.73  | 3745896.16 | 0.48393    | (16120216) | 377910.99 |
| 3745974.33 | 0.49412    | (16120216) |            |           |
| 377899.16  | 3745974.33 | 0.47628    | (16120216) | 377886.24 |
| 3745890.54 | 0.42066    | (16120216) |            |           |
| 378905.58  | 3746007.82 | 0.47466    | (14122516) | 378849.35 |
| 3745966.07 | 0.50360    | (14122516) |            |           |
| 378850.56  | 3745926.26 | 0.47901    | (14122516) | 378904.85 |
| 3745929.40 | 0.45139    | (14122516) |            |           |
| 378905.09  | 3745968.24 | 0.46494    | (14122516) | 378792.65 |
| 3745935.43 | 0.50415    | (14122516) |            |           |
| 378835.36  | 3745898.03 | 0.46514    | (14122516) | 378898.10 |
| 3745978.14 | 0.47374    | (14122516) |            |           |
| 378905.58  | 3746139.80 | 0.51418    | (15111616) | 378989.79 |
| 3746015.30 | 0.41387    | (15111616) |            |           |
| 378927.53  | 3745927.95 | 0.43573    | (14122516) | 378785.65 |
| 3745990.20 | 0.55382    | (14122516) |            |           |
| 378968.55  | 3745925.05 | 0.40480    | (14122516) | 378822.57 |
| 3745867.87 | 0.44490    | (14122516) |            |           |
| 378827.29  | 3746174.68 | 0.61756    | (15111616) | 378905.44 |
| 3746200.40 | 0.51603    | (15111616) |            |           |
| 378801.57  | 3746268.53 | 0.68566    | (15111616) | 378917.46 |
| 3746278.55 | 0.47387    | (15111616) |            |           |
| 378990.94  | 3746201.07 | 0.39884    | (15111616) | 378819.28 |
| 3746393.77 | 0.59995    | (15111616) |            |           |
| 378915.13  | 3746385.08 | 0.42615    | (13011016) | 378802.58 |
| 3746327.97 | 0.67895    | (15111616) |            |           |
| 378914.07  | 3746458.46 | 0.44499    | (13011016) | 378821.19 |
| 3746549.14 | 0.60519    | (13011016) |            |           |
| 378821.59  | 3746480.77 | 0.57128    | (13011016) | 378912.35 |
| 3746735.38 | 0.77614    | (12120416) |            |           |
| 378824.34  | 3746712.99 | 0.84828    | (12120416) | 378922.96 |
| 3746779.78 | 0.83116    | (12120416) |            |           |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378695.85  | 3746773.10 | 1.37330    | (12120416) | 378680.53 |
| 3746992.74 | 2.19764    | (12042316) |            |           |
| 378853.81  | 3747315.72 | 1.28784    | (13112016) | 378645.51 |
| 3747261.85 | 2.21576    | (13112016) |            |           |
| 378640.80  | 3747343.96 | 1.90859    | (13112016) | 378507.67 |
| 3747524.45 | 1.05106    | (14121816) |            |           |
| 378555.93  | 3747501.76 | 1.15753    | (13050616) | 378866.77 |
| 3747547.93 | 0.79798    | (13112016) |            |           |
| 378884.04  | 3747599.56 | 0.65113    | (13112016) | 378918.04 |
| 3747592.76 | 0.67605    | (13112016) |            |           |
| 378917.34  | 3747541.50 | 0.80689    | (13112016) | 378840.80 |
| 3747574.80 | 0.71169    | (13112016) |            |           |
| 378988.66  | 3747636.53 | 0.58333    | (13112016) | 378848.12 |
| 3747632.69 | 0.61578    | (13050616) |            |           |
| 378840.97  | 3747611.24 | 0.64987    | (13050616) | 378928.50 |
| 3747713.24 | 0.48026    | (13050616) |            |           |
| 378927.11  | 3747552.13 | 0.77794    | (13112016) | 378917.20 |
| 3747527.25 | 0.84215    | (13112016) |            |           |
| 379036.52  | 3747187.14 | 0.96141    | (12050116) | 379090.75 |
| 3747248.44 | 0.84479    | (12050116) |            |           |
| 379099.40  | 3747185.96 | 0.85113    | (12050116) | 379204.32 |
| 3747183.21 | 0.69621    | (12050116) |            |           |
| 379162.67  | 3747246.48 | 0.75155    | (12050116) | 379279.38 |
| 3747178.89 | 0.60338    | (12050116) |            |           |
| 379301.78  | 3747271.63 | 0.59724    | (12050116) | 379235.37 |
| 3747244.91 | 0.66738    | (12050116) |            |           |

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 Sequoia Commerce Center\1579 \*\*\* 09/11/24  
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 \*\*\* 13:28:10

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

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 379422.01   | 3747246.05  | 0.49551    | (12050116) | 379458.45   |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3747191.27 | 0.44682    | (12050116) |                      |
| 379434.32  | 3747101.49 | 0.44023    | (16011916) 379478.24 |
| 3747231.81 | 0.45044    | (12050116) |                      |
| 379500.69  | 3747247.50 | 0.44015    | (12050116) 379596.74 |
| 3747228.67 | 0.37543    | (12050116) |                      |
| 379559.58  | 3747187.16 | 0.37717    | (12050116) 379599.40 |
| 3747182.10 | 0.35165    | (12050116) |                      |
| 379527.96  | 3747129.48 | 0.38725    | (16070516) 379645.25 |
| 3747183.54 | 0.32992    | (16070516) |                      |
| 379678.07  | 3747268.74 | 0.34765    | (12050116) 379687.49 |
| 3747141.55 | 0.32110    | (16070516) |                      |
| 379728.03  | 3747160.37 | 0.30591    | (16070516) 379841.94 |
| 3747187.89 | 0.26952    | (16070516) |                      |
| 379834.70  | 3747231.09 | 0.27001    | (12050116) 379835.94 |
| 3747433.82 | 0.30078    | (12050116) |                      |
| 379790.14  | 3747436.93 | 0.31359    | (12050116) 379790.73 |
| 3747506.45 | 0.29729    | (12050116) |                      |
| 379838.60  | 3747509.86 | 0.28606    | (12050116) 379845.57 |
| 3747562.92 | 0.27845    | (12043016) |                      |
| 379789.40  | 3747527.20 | 0.29297    | (12043016) 377635.37 |
| 3745747.00 | 0.22316    | (14121616) |                      |
| 378209.49  | 3746740.07 | 15.81323   | (16121916) 378248.32 |
| 3746798.00 | 21.03899   | (15121416) |                      |
| 378254.25  | 3746886.86 | 35.30170   | (12110816)           |

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 \*\*\* 13:28:10

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

\*\*\* THE SUMMARY OF HIGHEST 1-HR

RESULTS \*\*\*

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

\*\*

DATE

| GROUP ID                      | AVERAGE CONC | NETWORK | DATE       | RECEPTOR |
|-------------------------------|--------------|---------|------------|----------|
| (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE      | GRID-ID | (YYMMDDHH) |          |
| -----                         |              |         |            |          |
| -----                         |              |         |            |          |

ALL HIGH 1ST HIGH VALUE IS 60.71496 ON 13112016: AT ( 378254.25,  
 3746886.86, 21.00, 21.00, 2.00) DC



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

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

\*\*\* THE SUMMARY OF HIGHEST 8-HR

RESULTS \*\*\*

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

\*\*

| GROUP ID                      | AVERAGE CONC    | DATE       | RECEPTOR  |
|-------------------------------|-----------------|------------|-----------|
| (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE GRID-ID | (YYMMDDHH) |           |
| - - - - -                     | - - - - -       | - - - - -  | - - - - - |
| - - - - -                     | - - - - -       | - - - - -  | - - - - - |

ALL HIGH 1ST HIGH VALUE IS 35.30170 ON 12110816: AT ( 378254.25,  
3746886.86, 21.00, 21.00, 2.00) DC

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

▲ \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)

A Total of 43848 Hours Were Processed  
A Total of 1223 Calm Hours Identified  
A Total of 251 Missing Hours Identified ( 0.57 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 133 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 133 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 12.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/11/2024  
\*\* File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Cons  
NOx\Cons NOx.ADI  
\*\*  
\*\*\*\*\*  
\*\*  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Control Pathway  
\*\*\*\*\*  
\*\*  
\*\*  
CO STARTING  
TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579  
MODELOPT DFAULT CONC  
AVERTIME 1  
URBANOPT 9818605 County\_of\_Los\_Angeles  
POLLUTID NOX  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "Cons NOx.err"  
CO FINISHED  
\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

|               |        |            |             |        |
|---------------|--------|------------|-------------|--------|
| LOCATION VOL1 | VOLUME | 378174.020 | 3747147.200 | 20.920 |
| LOCATION VOL2 | VOLUME | 378172.352 | 3747015.221 | 21.000 |
| LOCATION VOL3 | VOLUME | 378172.352 | 3746883.007 | 21.000 |
| LOCATION VOL4 | VOLUME | 378169.974 | 3746842.107 | 21.000 |

\*\* Source Parameters \*\*

|               |              |       |        |       |
|---------------|--------------|-------|--------|-------|
| SRCPARAM VOL1 | 0.1289311193 | 5.000 | 30.637 | 1.400 |
| SRCPARAM VOL2 | 0.1289311193 | 5.000 | 30.637 | 1.400 |
| SRCPARAM VOL3 | 0.1289311193 | 5.000 | 30.637 | 1.400 |
| SRCPARAM VOL4 | 0.1289311193 | 5.000 | 30.637 | 1.400 |
| URBANSRC ALL  |              |       |        |       |

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 2"

\*\* WeekDays:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| EMISFACT VOL1 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Saturday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Sunday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* WeekDays:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| EMISFACT VOL2 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Saturday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Sunday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

|               |                               |
|---------------|-------------------------------|
| EMISFACT VOL2 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** WeekDays:  |                               |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 1.0 1.0 1.0 1.0 |
| EMISFACT VOL3 | HRDOW 1.0 1.0 1.0 1.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Saturday:  |                               |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Sunday:    |                               |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** WeekDays:  |                               |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 1.0 1.0 1.0 1.0 |
| EMISFACT VOL4 | HRDOW 1.0 1.0 1.0 1.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Saturday:  |                               |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Sunday:    |                               |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |

SRCGROUP ALL

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "Cons NOx.rou"

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE KHRH\_V9\_ADJU\KHRH\_v9.SFC

PROFFILE KHHR\_V9\_ADJU\KHHR\_v9.PFL  
SURFDATA 3167 2012  
UAIRDATA 3190 2012  
PROFBASE 19.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "CONS NOX.AD\01H1GALL.PLT" 31

SUMMFILE "Cons NOx.sum"

OU FINISHED

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

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

|            |                            |
|------------|----------------------------|
| A Total of | 0 Fatal Error Message(s)   |
| A Total of | 2 Warning Message(s)       |
| A Total of | 0 Informational Message(s) |

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

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

ME W186 133 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50

ME W187 133 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 13:34:12

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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL 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 4 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
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 4 Source(s); 1 Source Group(s); and 185  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4 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 Highest Short Term Values by Receptor (RECTABLE

Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing  
Hours  
b for Both Calm  
and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Cons NOx.err

\*\*File for Summary of Results: Cons NOx.sum

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 13:34:12

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

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

| INIT.    | URBAN    | NUMBER      | EMISSION | RATE      |          | BASE     | RELEASE  | INIT.    |
|----------|----------|-------------|----------|-----------|----------|----------|----------|----------|
| SOURCE   | EMISSION | RATE        | AIRCRAFT |           |          | ELEV.    | HEIGHT   | SY       |
| SZ       | SOURCE   | SCALAR      | VARY     |           |          |          |          |          |
| ID       | CATS.    |             | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
| (METERS) | BY       |             |          |           |          |          |          |          |
| VOL1     | 0        | 0.12893E+00 | 378174.0 | 3747147.2 | 20.9     | 5.00     | 30.64    |          |

|      |     |       |             |          |           |      |      |       |
|------|-----|-------|-------------|----------|-----------|------|------|-------|
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL2 |     | 0     | 0.12893E+00 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL3 |     | 0     | 0.12893E+00 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL4 |     | 0     | 0.12893E+00 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

|             |            |
|-------------|------------|
| SRCGROUP ID | SOURCE IDs |
| -----       | -----      |

|     |      |        |        |        |
|-----|------|--------|--------|--------|
| ALL | VOL1 | , VOL2 | , VOL3 | , VOL4 |
|-----|------|--------|--------|--------|

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

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

\*\*\*

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

|          |      |        |        |        |
|----------|------|--------|--------|--------|
| 9818605. | VOL1 | , VOL2 | , VOL3 | , VOL4 |
|----------|------|--------|--------|--------|

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY



OF WEEK (HRDOW) \*

```
SOURCE ID = VOL1          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SATURDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SUNDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
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Sequoia Commerce Center\1579 ***      09/11/24
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

```
SOURCE ID = VOL2          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
 OF WEEK (HRDOW) \*

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 - - - - -

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01  
 14 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00

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17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

```

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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Sequoia Commerce Center\1579 *** 09/11/24
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3, 17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9, 19.3, 19.3, | 0.0); |       |       |             |
| ( 378136.3, 3746743.3, | 21.0, | 21.0, | 2.0); | ( 378268.7, |
| 3746735.6, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378256.3, 3746996.6, | 21.0, | 21.0, | 2.0); | ( 378249.4, |
| 3746847.9, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378309.8, 3747165.4, | 20.0, | 20.0, | 2.0); | ( 378513.4, |
| 3746995.0, 20.0, 20.0, | 2.0); |       |       |             |
| ( 378126.9, 3747243.5, | 20.8, | 20.8, | 2.0); | ( 378154.0, |
| 3747245.6, 20.5, 20.5, | 2.0); |       |       |             |
| ( 378197.0, 3747247.6, | 20.1, | 20.1, | 2.0); | ( 378227.9, |
| 3747244.7, 19.9, 19.9, | 2.0); |       |       |             |
| ( 378273.2, 3747244.4, | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |

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3747202.7,      20.0,      20.0,      0.0);
( 378227.9, 3747366.4,      19.4,      19.4,      0.0);      ( 378207.8,
3747536.3,      19.0,      19.0,      0.0);
( 378313.3, 3747203.2,      20.0,      20.0,      0.0);      ( 378919.3,
3747184.9,      17.3,      17.3,      0.0);
( 378921.5, 3747245.3,      17.0,      17.0,      0.0);      ( 378937.6,
3747441.6,      17.0,      17.0,      0.0);
( 378865.9, 3747523.7,      17.0,      17.0,      0.0);      ( 378731.9,
3747454.6,      17.0,      17.0,      0.0);
( 378976.9, 3747269.0,      17.0,      17.0,      0.0);      ( 378875.3,
3747301.2,      17.0,      17.0,      0.0);
( 378922.6, 3747029.0,      17.7,      17.7,      0.0);      ( 378056.9,
3747325.1,      20.9,      20.9,      0.0);
( 379168.5, 3747645.6,      17.0,      17.0,      0.0);      ( 377796.5,
3747904.9,      19.3,      19.3,      0.0);
( 378129.1, 3747249.4,      20.8,      20.8,      0.0);      ( 378159.5,
3747247.1,      20.5,      20.5,      0.0);
( 378200.2, 3747247.3,      20.0,      20.0,      0.0);      ( 378226.0,
3747247.7,      19.9,      19.9,      0.0);
( 378283.7, 3747245.2,      19.8,      19.8,      0.0);      ( 378052.8,
3747257.4,      21.0,      21.0,      0.0);
( 378116.4, 3747276.8,      20.6,      20.6,      0.0);      ( 378117.3,
3747316.0,      20.2,      20.2,      0.0);
( 378117.1, 3747344.8,      20.1,      20.1,      0.0);      ( 378120.6,
3747381.7,      20.0,      20.0,      0.0);
( 378121.8, 3747450.2,      19.7,      19.7,      0.0);      ( 378121.8,
3747514.2,      19.1,      19.1,      0.0);
( 378118.2, 3747553.5,      19.1,      19.1,      0.0);      ( 377945.4,
3747435.0,      20.8,      20.8,      0.0);
( 378083.8, 3747686.0,      19.0,      19.0,      0.0);      ( 378124.6,
3747684.6,      19.0,      19.0,      0.0);
( 378084.3, 3747702.2,      19.0,      19.0,      0.0);      ( 378124.6,
3747702.2,      18.9,      18.9,      0.0);
( 377995.0, 3747255.0,      21.0,      21.0,      0.0);      ( 377953.5,
3747255.4,      21.0,      21.0,      0.0);
( 377915.9, 3747255.3,      21.0,      21.0,      0.0);      ( 377825.5,
3747276.2,      21.0,      21.0,      0.0);
( 377934.7, 3747187.4,      21.0,      21.0,      0.0);      ( 377998.0,
3746860.9,      21.0,      21.0,      0.0);
( 377996.5, 3746783.4,      21.0,      21.0,      0.0);      ( 378132.8,
3746732.6,      21.0,      21.0,      0.0);

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Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
***      13:34:12

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

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

|                                          |             |
|------------------------------------------|-------------|
| ( 378131.1, 3746451.9, 21.0, 21.0, 0.0); | ( 378131.1, |
| 3746579.3, 21.0, 21.0, 0.0);             |             |
| ( 378131.1, 3746322.3, 21.0, 21.0, 0.0); | ( 378138.1, |
| 3746150.8, 21.0, 21.0, 0.0);             |             |
| ( 378001.7, 3746015.9, 21.0, 21.0, 0.0); | ( 378290.1, |
| 3746060.7, 21.0, 21.0, 0.0);             |             |
| ( 378102.5, 3745973.7, 21.0, 21.0, 0.0); | ( 378136.7, |
| 3745937.8, 21.0, 21.0, 0.0);             |             |
| ( 378064.1, 3745931.0, 21.0, 21.0, 0.0); | ( 378057.5, |
| 3745971.0, 21.0, 21.0, 0.0);             |             |
| ( 378020.8, 3745925.6, 21.0, 21.0, 0.0); | ( 378098.0, |
| 3745892.3, 21.0, 21.0, 0.0);             |             |
| ( 377945.7, 3745896.2, 21.0, 21.0, 0.0); | ( 377911.0, |
| 3745974.3, 21.0, 21.0, 0.0);             |             |
| ( 377899.2, 3745974.3, 21.0, 21.0, 0.0); | ( 377886.2, |
| 3745890.5, 21.0, 21.0, 0.0);             |             |
| ( 378905.6, 3746007.8, 21.0, 21.0, 0.0); | ( 378849.3, |
| 3745966.1, 21.0, 21.0, 0.0);             |             |
| ( 378850.6, 3745926.3, 21.0, 21.0, 0.0); | ( 378904.8, |
| 3745929.4, 21.0, 21.0, 0.0);             |             |
| ( 378905.1, 3745968.2, 21.0, 21.0, 0.0); | ( 378792.6, |
| 3745935.4, 21.0, 21.0, 0.0);             |             |
| ( 378835.4, 3745898.0, 21.0, 21.0, 0.0); | ( 378898.1, |
| 3745978.1, 21.0, 21.0, 0.0);             |             |
| ( 378905.6, 3746139.8, 21.0, 21.0, 0.0); | ( 378989.8, |
| 3746015.3, 21.0, 21.0, 0.0);             |             |
| ( 378927.5, 3745927.9, 21.0, 21.0, 0.0); | ( 378785.6, |
| 3745990.2, 21.0, 21.0, 0.0);             |             |
| ( 378968.5, 3745925.0, 21.0, 21.0, 0.0); | ( 378822.6, |
| 3745867.9, 21.0, 21.0, 0.0);             |             |
| ( 378827.3, 3746174.7, 21.0, 21.0, 0.0); | ( 378905.4, |
| 3746200.4, 21.0, 21.0, 0.0);             |             |
| ( 378801.6, 3746268.5, 21.0, 21.0, 0.0); | ( 378917.5, |
| 3746278.5, 21.0, 21.0, 0.0);             |             |
| ( 378990.9, 3746201.1, 21.0, 21.0, 0.0); | ( 378819.3, |
| 3746393.8, 21.0, 21.0, 0.0);             |             |
| ( 378915.1, 3746385.1, 20.6, 20.6, 0.0); | ( 378802.6, |
| 3746328.0, 21.0, 21.0, 0.0);             |             |
| ( 378914.1, 3746458.5, 20.2, 20.2, 0.0); | ( 378821.2, |
| 3746549.1, 20.2, 20.2, 0.0);             |             |
| ( 378821.6, 3746480.8, 20.9, 20.9, 0.0); | ( 378912.3, |
| 3746735.4, 18.8, 18.8, 0.0);             |             |
| ( 378824.3, 3746713.0, 19.9, 19.9, 0.0); | ( 378923.0, |
| 3746779.8, 18.6, 18.6, 0.0);             |             |
| ( 378695.8, 3746773.1, 20.0, 20.0, 0.0); | ( 378680.5, |
| 3746992.7, 19.0, 19.0, 0.0);             |             |
| ( 378853.8, 3747315.7, 17.0, 17.0, 0.0); | ( 378645.5, |

```

3747261.8,      18.0,      18.0,      0.0);
( 378640.8, 3747344.0,      17.7,      17.7,      0.0);      ( 378507.7,
3747524.4,      17.8,      17.8,      0.0);
( 378555.9, 3747501.8,      17.5,      17.5,      0.0);      ( 378866.8,
3747547.9,      17.0,      17.0,      0.0);
( 378884.0, 3747599.6,      17.0,      17.0,      0.0);      ( 378918.0,
3747592.8,      17.0,      17.0,      0.0);
( 378917.3, 3747541.5,      17.0,      17.0,      0.0);      ( 378840.8,
3747574.8,      17.0,      17.0,      0.0);
( 378988.7, 3747636.5,      17.0,      17.0,      0.0);      ( 378848.1,
3747632.7,      17.0,      17.0,      0.0);
( 378841.0, 3747611.2,      17.0,      17.0,      0.0);      ( 378928.5,
3747713.2,      17.0,      17.0,      0.0);
( 378927.1, 3747552.1,      17.0,      17.0,      0.0);      ( 378917.2,
3747527.2,      17.0,      17.0,      0.0);
( 379036.5, 3747187.1,      17.0,      17.0,      0.0);      ( 379090.8,
3747248.4,      17.0,      17.0,      0.0);
( 379099.4, 3747186.0,      17.0,      17.0,      0.0);      ( 379204.3,
3747183.2,      17.0,      17.0,      0.0);
( 379162.7, 3747246.5,      17.0,      17.0,      0.0);      ( 379279.4,
3747178.9,      17.0,      17.0,      0.0);
( 379301.8, 3747271.6,      17.0,      17.0,      0.0);      ( 379235.4,
3747244.9,      17.0,      17.0,      0.0);
( 379422.0, 3747246.0,      17.0,      17.0,      0.0);      ( 379458.5,
3747191.3,      17.0,      17.0,      0.0);
( 379434.3, 3747101.5,      17.0,      17.0,      0.0);      ( 379478.2,
3747231.8,      17.0,      17.0,      0.0);
( 379500.7, 3747247.5,      17.0,      17.0,      0.0);      ( 379596.7,
3747228.7,      17.0,      17.0,      0.0);
( 379559.6, 3747187.2,      17.0,      17.0,      0.0);      ( 379599.4,
3747182.1,      17.0,      17.0,      0.0);
( 379528.0, 3747129.5,      17.0,      17.0,      0.0);      ( 379645.2,
3747183.5,      17.0,      17.0,      0.0);
( 379678.1, 3747268.7,      17.0,      17.0,      0.0);      ( 379687.5,
3747141.5,      17.0,      17.0,      0.0);
( 379728.0, 3747160.4,      17.0,      17.0,      0.0);      ( 379841.9,
3747187.9,      17.0,      17.0,      0.0);
( 379834.7, 3747231.1,      17.0,      17.0,      0.0);      ( 379835.9,
3747433.8,      17.0,      17.0,      0.0);
( 379790.1, 3747436.9,      17.0,      17.0,      0.0);      ( 379790.7,
3747506.4,      17.0,      17.0,      0.0);
( 379838.6, 3747509.9,      17.0,      17.0,      0.0);      ( 379845.6,
3747562.9,      17.0,      17.0,      0.0);
^ *** AERMOD - VERSION 23132 *** *** C:\Users\adadabhoy\Desktop\AERMOD\15795
Sequoia Commerce Center\1579 *** *** 09/11/24
*** AERMET - VERSION 16216 *** ***
*** 13:34:12

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

( 379789.4, 3747527.2, 17.0, 17.0, 0.0); ( 377635.4,  
 3745747.0, 21.0, 21.0, 0.0);  
 ( 378209.5, 3746740.1, 21.0, 21.0, 2.0); ( 378248.3,  
 3746798.0, 21.0, 21.0, 2.0);  
 ( 378254.2, 3746886.9, 21.0, 21.0, 2.0);

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 Sequoia Commerce Center\1579 \*\*\* 09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 13:34:12

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

\*\*\* METEOROLOGICAL DAYS SELECTED FOR  
 PROCESSING \*\*\*  
 (1=YES; 0=NO)

|                     |                     |                     |       |
|---------------------|---------------------|---------------------|-------|
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON  
 WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED  
 CATEGORIES \*\*\*  
 (METERS/SEC)

1.54, 3.09, 5.14, 8.23,  
 10.80,



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

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

Surface file:    KHRH\_V9\_ADJU\KHRH\_v9.SFC  
                  Met Version: 16216  
 Profile file:    KHRH\_V9\_ADJU\KHRH\_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.:      3167  
                          Name: UNKNOWN

Upper air station no.:      3190  
                          Name: UNKNOWN

Year:      2012

Year:      2012

First 24 hours of scalar data

| YR     | MO   | DY   | JDY | HR    | H0     | U*     | W*     | DT/DZ  | ZICNV | ZIMCH | M-O      | LEN  | Z0   | BOWEN |
|--------|------|------|-----|-------|--------|--------|--------|--------|-------|-------|----------|------|------|-------|
| ALBEDO | REF  | WS   | WD  | HT    | REF    | TA     | HT     |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 01    | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |       |
| 1.00   | 0.00 | 0.   | 7.9 | 283.8 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 02    | -2.1   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |       |
| 1.00   | 0.53 | 305. | 7.9 | 283.1 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 03    | -9.0   | 0.127  | -9.000 | -9.000 | -999. | 109.  | 20.8     | 0.24 | 2.79 |       |
| 1.00   | 1.18 | 323. | 7.9 | 282.5 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 04    | -2.2   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |       |
| 1.00   | 0.53 | 296. | 7.9 | 282.0 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 05    | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |       |
| 1.00   | 0.00 | 0.   | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 06    | -6.0   | 0.103  | -9.000 | -9.000 | -999. | 80.   | 16.7     | 0.24 | 2.79 |       |
| 1.00   | 0.97 | 321. | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 07    | -4.3   | 0.088  | -9.000 | -9.000 | -999. | 63.   | 14.4     | 0.24 | 2.79 |       |
| 1.00   | 0.82 | 313. | 7.9 | 280.4 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 08    | 15.7   | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |       |
| 0.55   | 0.00 | 0.   | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 09    | 35.7   | 0.115  | 0.353  | 0.013  | 45.   | 93.   | -3.8     | 0.24 | 2.79 |       |
| 0.32   | 0.63 | 179. | 7.9 | 285.4 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 10    | 109.0  | 0.141  | 0.727  | 0.009  | 128.  | 127.  | -2.3     | 0.24 | 2.79 |       |
| 0.24   | 0.70 | 170. | 7.9 | 289.2 | 2.0    |        |        |        |       |       |          |      |      |       |
| 12     | 01   | 01   | 1   | 11    | 164.4  | 0.149  | 1.186  | 0.005  | 370.  | 138.  | -1.8     | 0.24 | 2.79 |       |

|      |      |      |     |       |       |       |        |        |       |      |        |      |      |
|------|------|------|-----|-------|-------|-------|--------|--------|-------|------|--------|------|------|
| 0.21 | 0.70 | 222. | 7.9 | 297.0 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 12    | 191.7 | 0.163 | 1.525  | 0.005  | 672.  | 158. | -2.1   | 0.24 | 2.79 |
| 0.20 | 0.79 | 12.  | 7.9 | 299.9 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 13    | 191.3 | 0.170 | 1.819  | 0.005  | 1144. | 168. | -2.3   | 0.24 | 2.79 |
| 0.20 | 0.84 | 260. | 7.9 | 300.9 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 14    | 161.6 | 0.344 | 1.852  | 0.005  | 1428. | 483. | -22.7  | 0.24 | 2.79 |
| 0.21 | 2.49 | 260. | 7.9 | 298.8 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 15    | 105.0 | 0.367 | 1.638  | 0.005  | 1521. | 534. | -42.8  | 0.24 | 2.79 |
| 0.24 | 2.84 | 292. | 7.9 | 293.8 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 16    | 29.7  | 0.383 | 1.079  | 0.005  | 1539. | 570. | -172.5 | 0.24 | 2.79 |
| 0.33 | 3.22 | 276. | 7.9 | 290.4 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 17    | -24.8 | 0.287 | -9.000 | -9.000 | -999. | 374. | 90.3   | 0.24 | 2.79 |
| 0.59 | 2.52 | 284. | 7.9 | 289.2 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 18    | -26.7 | 0.269 | -9.000 | -9.000 | -999. | 336. | 79.8   | 0.24 | 2.79 |
| 1.00 | 2.38 | 285. | 7.9 | 287.5 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 19    | -10.2 | 0.137 | -9.000 | -9.000 | -999. | 133. | 22.7   | 0.24 | 2.79 |
| 1.00 | 1.26 | 287. | 7.9 | 287.5 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 20    | -6.2  | 0.106 | -9.000 | -9.000 | -999. | 83.  | 17.2   | 0.24 | 2.79 |
| 1.00 | 0.99 | 303. | 7.9 | 287.0 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 21    | -7.6  | 0.117 | -9.000 | -9.000 | -999. | 96.  | 19.1   | 0.24 | 2.79 |
| 1.00 | 1.09 | 326. | 7.9 | 286.4 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 22    | -6.8  | 0.110 | -9.000 | -9.000 | -999. | 88.  | 18.0   | 0.24 | 2.79 |
| 1.00 | 1.03 | 297. | 7.9 | 285.9 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 23    | -19.9 | 0.200 | -9.000 | -9.000 | -999. | 214. | 43.9   | 0.24 | 2.79 |
| 1.00 | 1.79 | 290. | 7.9 | 285.9 | 2.0   |       |        |        |       |      |        |      |      |
| 12   | 01   | 01   | 1   | 24    | -19.6 | 0.196 | -9.000 | -9.000 | -999. | 209. | 42.3   | 0.24 | 2.79 |
| 1.00 | 1.76 | 282. | 7.9 | 285.9 | 2.0   |       |        |        |       |      |        |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 7.9    | 1 | -999. | -99.00 | 283.8   | 99.0   | -99.00 | -99.00 |

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

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Sequoia Commerce Center\1579 \*\*\* 09/11/24

\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2  
, VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

| X-COORD (M)<br>Y-COORD (M) | Y-COORD (M)<br>CONC<br>(YYMMDDHH) | CONC<br>(YYMMDDHH) | (YYMMDDHH) | X-COORD (M) |
|----------------------------|-----------------------------------|--------------------|------------|-------------|
| -----                      | -----                             | -----              | -----      | -----       |
| 378289.83                  | 3747311.07                        | 20.87277           | (13112216) | 378292.28   |
| 3747493.83                 | 6.00126 (13112216)                |                    |            |             |
| 378289.93                  | 3747408.68                        | 10.71904           | (13112216) | 378291.63   |
| 3747328.59                 | 18.64311 (13112216)               |                    |            |             |
| 378291.42                  | 3747417.90                        | 10.09920           | (13112216) | 378589.39   |
| 3747341.97                 | 5.47475 (13112016)                |                    |            |             |
| 378519.42                  | 3747305.13                        | 6.87138            | (13112016) | 378519.01   |
| 3747395.88                 | 6.78517 (13112216)                |                    |            |             |
| 378517.98                  | 3747292.17                        | 7.17956            | (13112016) | 378347.39   |
| 3747259.66                 | 18.64984 (13112216)               |                    |            |             |
| 378291.17                  | 3747266.91                        | 26.40537           | (13112216) | 378360.59   |
| 3747202.71                 | 16.78543 (13112216)               |                    |            |             |
| 378227.93                  | 3747366.41                        | 10.61421           | (13112216) | 378207.82   |
| 3747536.30                 | 4.29583 (14121516)                |                    |            |             |
| 378313.28                  | 3747203.17                        | 24.79235           | (13112216) | 378919.28   |
| 3747184.91                 | 2.46968 (16011916)                |                    |            |             |
| 378921.54                  | 3747245.33                        | 2.57735            | (13112016) | 378937.65   |
| 3747441.57                 | 2.86088 (13112016)                |                    |            |             |
| 378865.93                  | 3747523.67                        | 2.52847            | (13112016) | 378731.88   |
| 3747454.64                 | 3.29618 (13112016)                |                    |            |             |
| 378976.87                  | 3747269.00                        | 2.26760            | (13112016) | 378875.27   |
| 3747301.16                 | 3.29207 (13112016)                |                    |            |             |
| 378922.56                  | 3747028.97                        | 2.51314            | (12110816) | 378056.86   |
| 3747325.10                 | 15.65869 (12112816)               |                    |            |             |
| 379168.53                  | 3747645.58                        | 1.67208            | (13112016) | 377796.45   |
| 3747904.89                 | 2.37032 (12112816)                |                    |            |             |
| 378136.31                  | 3746743.35                        | 36.18771           | (14121615) | 378268.72   |
| 3746735.61                 | 24.07099 (16010711)               |                    |            |             |
| 378256.33                  | 3746996.56                        | 47.39090           | (13112216) | 378249.36   |
| 3746847.89                 | 59.28692 (16122016)               |                    |            |             |
| 378309.76                  | 3747165.37                        | 24.99782           | (13112216) | 378513.41   |
| 3746995.01                 | 7.43496 (13112016)                |                    |            |             |
| 378126.89                  | 3747243.53                        | 32.79875           | (12112816) | 378154.05   |
| 3747245.58                 | 29.09237 (13122016)               |                    |            |             |
| 378196.98                  | 3747247.62                        | 36.51326           | (13112216) | 378227.94   |
| 3747244.70                 | 41.31327 (13112216)               |                    |            |             |
| 378273.20                  | 3747244.41                        | 33.15336           | (13112216) | 378052.71   |
| 3747256.38                 | 19.73122 (12112816)               |                    |            |             |
| 378289.83                  | 3747311.07                        | 20.87277           | (13112216) | 378292.28   |
| 3747493.83                 | 6.00126 (13112216)                |                    |            |             |
| 378289.93                  | 3747408.68                        | 10.71904           | (13112216) | 378291.63   |
| 3747328.59                 | 18.64311 (13112216)               |                    |            |             |
| 378291.42                  | 3747417.90                        | 10.09920           | (13112216) | 378589.39   |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3747341.97 | 5.47475    | (13112016) |                      |
| 378519.42  | 3747305.13 | 6.87138    | (13112016) 378519.01 |
| 3747395.88 | 6.78517    | (13112216) |                      |
| 378517.98  | 3747292.17 | 7.17956    | (13112016) 378347.39 |
| 3747259.66 | 18.64984   | (13112216) |                      |
| 378291.17  | 3747266.91 | 26.40537   | (13112216) 378360.59 |
| 3747202.71 | 16.78543   | (13112216) |                      |
| 378227.93  | 3747366.41 | 10.61421   | (13112216) 378207.82 |
| 3747536.30 | 4.29583    | (14121516) |                      |
| 378313.28  | 3747203.17 | 24.79235   | (13112216) 378919.28 |
| 3747184.91 | 2.46968    | (16011916) |                      |
| 378921.54  | 3747245.33 | 2.57735    | (13112016) 378937.65 |
| 3747441.57 | 2.86088    | (13112016) |                      |
| 378865.93  | 3747523.67 | 2.52847    | (13112016) 378731.88 |
| 3747454.64 | 3.29618    | (13112016) |                      |
| 378976.87  | 3747269.00 | 2.26760    | (13112016) 378875.27 |
| 3747301.16 | 3.29207    | (13112016) |                      |
| 378922.56  | 3747028.97 | 2.51314    | (12110816) 378056.86 |
| 3747325.10 | 15.65869   | (12112816) |                      |
| 379168.53  | 3747645.58 | 1.67208    | (13112016) 377796.45 |
| 3747904.89 | 2.37032    | (12112816) |                      |
| 378129.14  | 3747249.41 | 29.35205   | (12112816) 378159.47 |
| 3747247.15 | 27.62062   | (14121516) |                      |
| 378200.25  | 3747247.32 | 36.93918   | (13112216) 378226.05 |
| 3747247.67 | 39.18957   | (13112216) |                      |
| 378283.74  | 3747245.23 | 30.33437   | (13112216) 378052.80 |
| 3747257.43 | 19.36362   | (12112816) |                      |
| 378116.42  | 3747276.78 | 22.19870   | (12112816) 378117.29 |
| 3747315.99 | 15.12894   | (13122016) |                      |
| 378117.11  | 3747344.75 | 12.51320   | (13122016) 378120.60 |
| 3747381.70 | 9.86579    | (13122016) |                      |
| 378121.82  | 3747450.20 | 7.35792    | (14121516) 378121.82 |
| 3747514.16 | 5.80593    | (14121516) |                      |
| 378118.16  | 3747553.55 | 5.06468    | (14121516) 377945.41 |
| 3747434.99 | 8.42315    | (12112816) |                      |
| 378083.80  | 3747685.98 | 3.31192    | (14121516) 378124.58 |
| 3747684.58 | 3.45086    | (14121516) |                      |

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 Sequoia Commerce Center\1579 \*\*\* 09/11/24  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

|             |             | ** CONC OF NOX |            | IN MICROGRAMS/M**3 |
|-------------|-------------|----------------|------------|--------------------|
|             |             | **             |            |                    |
| X-COORD (M) | Y-COORD (M) | CONC           | (YYMMDDHH) | X-COORD (M)        |
| Y-COORD (M) | CONC        | (YYMMDDHH)     |            |                    |
| -----       |             |                |            |                    |
| 378084.32   | 3747702.19  | 3.18980        | (14121516) | 378124.58          |
| 3747702.19  | 3.29255     | (14121516)     |            |                    |
| 377995.02   | 3747255.00  | 14.21008       | (12112916) | 377953.54          |
| 3747255.45  | 11.88827    | (12112916)     |            |                    |
| 377915.91   | 3747255.30  | 10.37508       | (12112916) | 377825.47          |
| 3747276.19  | 7.87461     | (12112916)     |            |                    |
| 377934.72   | 3747187.43  | 11.76567       | (12112916) | 377997.97          |
| 3746860.90  | 16.70440    | (13121911)     |            |                    |
| 377996.55   | 3746783.41  | 22.40142       | (14121616) | 378132.80          |
| 3746732.61  | 30.47225    | (14121615)     |            |                    |
| 378131.09   | 3746451.89  | 5.23149        | (16121916) | 378131.09          |
| 3746579.33  | 9.33915     | (16121916)     |            |                    |
| 378131.15   | 3746322.30  | 3.31735        | (16121916) | 378138.09          |
| 3746150.82  | 2.10846     | (16121916)     |            |                    |
| 378001.74   | 3746015.86  | 1.73783        | (16120216) | 378290.15          |
| 3746060.70  | 2.17663     | (16121916)     |            |                    |
| 378102.45   | 3745973.71  | 1.28444        | (16120216) | 378136.71          |
| 3745937.76  | 1.28813     | (16121916)     |            |                    |
| 378064.09   | 3745931.01  | 1.33634        | (16120216) | 378057.50          |
| 3745971.00  | 1.48225     | (16120216)     |            |                    |
| 378020.77   | 3745925.59  | 1.44429        | (16120216) | 378097.98          |
| 3745892.30  | 1.09037     | (16120216)     |            |                    |
| 377945.73   | 3745896.16  | 1.37958        | (16120216) | 377910.99          |
| 3745974.33  | 1.41962     | (16120216)     |            |                    |
| 377899.16   | 3745974.33  | 1.36746        | (16120216) | 377886.24          |
| 3745890.54  | 1.21496     | (16120216)     |            |                    |
| 378905.58   | 3746007.82  | 1.02052        | (14122516) | 378849.35          |
| 3745966.07  | 0.97226     | (14122516)     |            |                    |
| 378850.56   | 3745926.26  | 0.90824        | (14123116) | 378904.85          |
| 3745929.40  | 0.91395     | (14122516)     |            |                    |
| 378905.09   | 3745968.24  | 0.97135        | (14122516) | 378792.65          |
| 3745935.43  | 1.01017     | (14123116)     |            |                    |
| 378835.36   | 3745898.03  | 0.91918        | (14123116) | 378898.10          |
| 3745978.14  | 0.98864     | (14122516)     |            |                    |
| 378905.58   | 3746139.80  | 1.15368        | (12121816) | 378989.79          |
| 3746015.30  | 0.92882     | (12121816)     |            |                    |
| 378927.53   | 3745927.95  | 0.90753        | (14122516) | 378785.65          |
| 3745990.20  | 1.06804     | (14123116)     |            |                    |
| 378968.55   | 3745925.05  | 0.88185        | (14122516) | 378822.57          |
| 3745867.87  | 0.91202     | (14123116)     |            |                    |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378827.29  | 3746174.68 | 1.32914    | (12121816) | 378905.44 |
| 3746200.40 | 1.17599    | (12121816) |            |           |
| 378801.57  | 3746268.53 | 1.51599    | (12121816) | 378917.46 |
| 3746278.55 | 1.07578    | (12121816) |            |           |
| 378990.94  | 3746201.07 | 0.91614    | (12121816) | 378819.28 |
| 3746393.77 | 1.50870    | (14120116) |            |           |
| 378915.13  | 3746385.08 | 1.32832    | (14120116) | 378802.58 |
| 3746327.97 | 1.51891    | (12121816) |            |           |
| 378914.07  | 3746458.46 | 1.47567    | (16122816) | 378821.19 |
| 3746549.14 | 2.29057    | (15122816) |            |           |
| 378821.59  | 3746480.77 | 1.78149    | (14120116) | 378912.35 |
| 3746735.38 | 2.83297    | (15122816) |            |           |
| 378824.34  | 3746712.99 | 3.47113    | (15122816) | 378922.96 |
| 3746779.78 | 2.56999    | (15122816) |            |           |
| 378695.85  | 3746773.10 | 4.57097    | (15122816) | 378680.53 |
| 3746992.74 | 4.27069    | (16011916) |            |           |
| 378853.81  | 3747315.72 | 3.51373    | (13112016) | 378645.51 |
| 3747261.85 | 5.79540    | (13112016) |            |           |
| 378640.80  | 3747343.96 | 5.09676    | (13112016) | 378507.67 |
| 3747524.45 | 6.35704    | (13112216) |            |           |
| 378555.93  | 3747501.76 | 5.64647    | (13112216) | 378866.77 |
| 3747547.93 | 2.31242    | (13112016) |            |           |
| 378884.04  | 3747599.56 | 1.87163    | (13112016) | 378918.04 |
| 3747592.76 | 1.97520    | (13112016) |            |           |
| 378917.34  | 3747541.50 | 2.37097    | (13112016) | 378840.80 |
| 3747574.80 | 2.02220    | (13112016) |            |           |
| 378988.66  | 3747636.53 | 1.72512    | (13112016) | 378848.12 |
| 3747632.69 | 1.72762    | (12112815) |            |           |
| 378840.97  | 3747611.24 | 1.80552    | (12112815) | 378928.50 |
| 3747713.24 | 1.41916    | (12112815) |            |           |
| 378927.11  | 3747552.13 | 2.29018    | (13112016) | 378917.20 |
| 3747527.25 | 2.47328    | (13112016) |            |           |
| 379036.52  | 3747187.14 | 2.07895    | (16011916) | 379090.75 |
| 3747248.44 | 1.79182    | (16011916) |            |           |
| 379099.40  | 3747185.96 | 1.89738    | (16011916) | 379204.32 |
| 3747183.21 | 1.62214    | (16011916) |            |           |
| 379162.67  | 3747246.48 | 1.65250    | (16011916) | 379279.38 |
| 3747178.89 | 1.44345    | (16011916) |            |           |
| 379301.78  | 3747271.63 | 1.36626    | (16011916) | 379235.37 |
| 3747244.91 | 1.51655    | (16011916) |            |           |

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2  
, VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
\*\*\*

| ** CONC OF NOX |                     | IN MICROGRAMS/M**3 |            |             |
|----------------|---------------------|--------------------|------------|-------------|
| X-COORD (M)    | Y-COORD (M)         | CONC               | (YYMMDDHH) | X-COORD (M) |
| Y-COORD (M)    | CONC                | (YYMMDDHH)         |            |             |
| 379422.01      | 3747246.05          | 1.19902            | (16011916) | 379458.45   |
| 3747191.27     | 1.13133 (12110816)  |                    |            |             |
| 379434.32      | 3747101.49          | 1.14518            | (12110816) | 379478.24   |
| 3747231.81     | 1.11039 (16011916)  |                    |            |             |
| 379500.69      | 3747247.50          | 1.08327            | (16011916) | 379596.74   |
| 3747228.67     | 0.95019 (12110816)  |                    |            |             |
| 379559.58      | 3747187.16          | 1.00865            | (12110816) | 379599.40   |
| 3747182.10     | 0.96374 (12110816)  |                    |            |             |
| 379527.96      | 3747129.48          | 1.03252            | (12110816) | 379645.25   |
| 3747183.54     | 0.91422 (12110816)  |                    |            |             |
| 379678.07      | 3747268.74          | 0.87083            | (16011916) | 379687.49   |
| 3747141.55     | 0.85091 (12110816)  |                    |            |             |
| 379728.03      | 3747160.37          | 0.82225            | (12110816) | 379841.94   |
| 3747187.89     | 0.73360 (12110816)  |                    |            |             |
| 379834.70      | 3747231.09          | 0.74516            | (12110816) | 379835.94   |
| 3747433.82     | 0.69416 (16011916)  |                    |            |             |
| 379790.14      | 3747436.93          | 0.71342            | (16011916) | 379790.73   |
| 3747506.45     | 0.61910 (16011916)  |                    |            |             |
| 379838.60      | 3747509.86          | 0.60256            | (16011916) | 379845.57   |
| 3747562.92     | 0.56885 (12121416)  |                    |            |             |
| 379789.40      | 3747527.20          | 0.59592            | (12121416) | 377635.37   |
| 3745747.00     | 0.81313 (14121615)  |                    |            |             |
| 378209.49      | 3746740.07          | 41.54428           | (16121916) | 378248.32   |
| 3746798.00     | 44.21297 (16010711) |                    |            |             |
| 378254.25      | 3746886.86          | 65.45724           | (13112016) |             |

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

\*\*\* THE SUMMARY OF HIGHEST 1-HR  
RESULTS \*\*\*

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

\*\*

| GROUP ID                      | AVERAGE CONC | NETWORK   | DATE       | RECEPTOR  |
|-------------------------------|--------------|-----------|------------|-----------|
| (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE      | GRID-ID   | (YYMMDDHH) |           |
| - - - - -                     | - - - - -    | - - - - - | - - - - -  | - - - - - |
| - - - - -                     | - - - - -    | - - - - - | - - - - -  | - - - - - |

ALL HIGH 1ST HIGH VALUE IS 65.45724 ON 13112016: AT ( 378254.25,  
3746886.86, 21.00, 21.00, 2.00) DC

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

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:34:12

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

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1223 Calm Hours Identified  
  
A Total of 251 Missing Hours Identified ( 0.57 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 133 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 133 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET



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

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 12.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/11/2024  
\*\* File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Cons  
PM10\Cons PM10.ADI

\*\*

\*\*\*\*\*

\*\*

\*\*

\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579  
MODELOPT DFAULT CONC  
AVERTIME 24  
URBANOPT 9818605 County\_of\_Los\_Angeles  
POLLUTID PM\_10  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "Cons PM10.err"

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

|                 |          |            |             |        |
|-----------------|----------|------------|-------------|--------|
| LOCATION VOL1   | VOLUME   | 378174.020 | 3747147.200 | 20.920 |
| LOCATION VOL2   | VOLUME   | 378172.352 | 3747015.221 | 21.000 |
| LOCATION VOL3   | VOLUME   | 378172.352 | 3746883.007 | 21.000 |
| LOCATION VOL4   | VOLUME   | 378169.974 | 3746842.107 | 21.000 |
| LOCATION PAREA1 | AREAPOLY | 378108.039 | 3747213.216 | 21.000 |

\*\* Source Parameters \*\*

|               |              |       |        |       |
|---------------|--------------|-------|--------|-------|
| SRCPARAM VOL1 | 0.0063781432 | 5.000 | 30.637 | 1.400 |
| SRCPARAM VOL2 | 0.0063781432 | 5.000 | 30.637 | 1.400 |

|                 |              |             |            |             |
|-----------------|--------------|-------------|------------|-------------|
| SRCPARAM VOL3   | 0.0063781432 | 5.000       | 30.637     | 1.400       |
| SRCPARAM VOL4   | 0.0063781432 | 5.000       | 30.637     | 1.400       |
| SRCPARAM PAREA1 | 1.5459E-06   | 0.000       | 4          | 1.000       |
| AREAVERT PAREA1 | 378108.039   | 3747213.216 | 378240.132 | 3747212.245 |
| AREAVERT PAREA1 | 378235.923   | 3746774.850 | 378104.154 | 3746776.145 |
| URBANSRC ALL    |              |             |            |             |

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 2"

\*\* WeekDays:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| EMISFACT VOL1 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Saturday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Sunday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* WeekDays:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| EMISFACT VOL2 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Saturday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Sunday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* WeekDays:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL3 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL3 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| EMISFACT VOL3 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| EMISFACT VOL3 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Saturday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL3 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL3 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL3 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL3 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Sunday:

```

    EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL4          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT PAREA1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT PAREA1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Cons PM10.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**

```

\*\*

ME STARTING

SURFFILE KHHR\_V9\_ADJU\KHHR\_v9.SFC

PROFFILE KHHR\_V9\_ADJU\KHHR\_v9.PFL

SURFDATA 3167 2012

UAIRDATA 3190 2012

PROFBASE 19.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "CONS PM10.AD\24H1GALL.PLT" 31

SUMMFILE "Cons PM10.sum"

OU FINISHED

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

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

|            |                            |
|------------|----------------------------|
| A Total of | 0 Fatal Error Message(s)   |
| A Total of | 2 Warning Message(s)       |
| A Total of | 0 Informational Message(s) |

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

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

ME W186 152 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50

ME W187 152 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\* 09/11/24

\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* 13:40:11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL 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 5 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
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 5 Source(s); 1 Source Group(s); and 185  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4 VOLUME source(s)  
and: 1 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 Highest Short Term Values by Receptor (RECTABLE  
 Keyword)  
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
 Keyword)  
 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
 Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing  
 Hours  
 b for Both Calm  
 and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
 Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ;  
 Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Cons PM10.err

\*\*File for Summary of Results: Cons PM10.sum

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

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

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

-----

- - - - -

|      |     |       |             |          |           |      |      |       |
|------|-----|-------|-------------|----------|-----------|------|------|-------|
| VOL1 |     | 0     | 0.63781E-02 | 378174.0 | 3747147.2 | 20.9 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL2 |     | 0     | 0.63781E-02 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL3 |     | 0     | 0.63781E-02 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |
| VOL4 |     | 0     | 0.63781E-02 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW | NO          |          |           |      |      |       |

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

\*\*\* AREAPOLY SOURCE DATA \*\*\*

| INIT.    | URBAN  | NUMBER   | EMISSION   | RATE     | LOCATION | OF       | AREA | BASE     | RELEASE  | NUMBER    |
|----------|--------|----------|------------|----------|----------|----------|------|----------|----------|-----------|
| SOURCE   |        | EMISSION | RATE       | AIRCRAFT |          |          |      |          |          |           |
| SZ       | SOURCE | SCALAR   | VARY       |          | X        | Y        |      | ELEV.    | HEIGHT   | OF VERTS. |
| ID       |        | CATS.    | /METER**2) |          | (METERS) | (METERS) |      | (METERS) | (METERS) |           |
| (METERS) |        | BY       |            |          |          |          |      |          |          |           |

|                                  |     |       |             |                                             |           |      |      |   |
|----------------------------------|-----|-------|-------------|---------------------------------------------|-----------|------|------|---|
| PAREA1                           |     | 0     | 0.15459E-05 | 378108.0                                    | 3747213.2 | 21.0 | 0.00 | 4 |
| 1.00                             | YES | HRDOW | NO          |                                             |           |      |      |   |
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| Sequoia Commerce Center\1579 *** |     |       |             | 09/11/24                                    |           |      |      |   |
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| ***                              |     |       |             | 13:40:11                                    |           |      |      |   |

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

| SRCGROUP ID | SOURCE IDs |
|-------------|------------|
| -----       | -----      |

ALL VOL1 , VOL2 , VOL3 , VOL4 , PAREA1 ,  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

\*\*\*

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

|          |      |        |        |        |   |
|----------|------|--------|--------|--------|---|
| 9818605. | VOL1 | , VOL2 | , VOL3 | , VOL4 | , |
|----------|------|--------|--------|--------|---|

PAREA1 ,  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

| SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME : |           |      |           |      |           |      |           |      |           |
|-------------------------------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|
| HOUR                                      | SCALAR    | HOUR | SCALAR    | HOUR | SCALAR    | HOUR | SCALAR    | HOUR | SCALAR    |
| HOUR                                      | SCALAR    | HOUR | SCALAR    | HOUR | SCALAR    |      |           |      |           |
| -----                                     |           |      |           |      |           |      |           |      |           |
| -----                                     |           |      |           |      |           |      |           |      |           |
| DAY OF WEEK = WEEKDAY                     |           |      |           |      |           |      |           |      |           |
| 1                                         | .0000E+00 | 2    | .0000E+00 | 3    | .0000E+00 | 4    | .0000E+00 | 5    | .0000E+00 |
| 6                                         | .0000E+00 | 7    | .0000E+00 | 8    | .0000E+00 |      |           |      |           |
| 9                                         | .1000E+01 | 10   | .1000E+01 | 11   | .1000E+01 | 12   | .1000E+01 | 13   | .1000E+01 |
| 14                                        | .1000E+01 | 15   | .1000E+01 | 16   | .1000E+01 |      |           |      |           |
| 17                                        | .0000E+00 | 18   | .0000E+00 | 19   | .0000E+00 | 20   | .0000E+00 | 21   | .0000E+00 |
| 22                                        | .0000E+00 | 23   | .0000E+00 | 24   | .0000E+00 |      |           |      |           |
| DAY OF WEEK = SATURDAY                    |           |      |           |      |           |      |           |      |           |
| 1                                         | .0000E+00 | 2    | .0000E+00 | 3    | .0000E+00 | 4    | .0000E+00 | 5    | .0000E+00 |
| 6                                         | .0000E+00 | 7    | .0000E+00 | 8    | .0000E+00 |      |           |      |           |
| 9                                         | .0000E+00 | 10   | .0000E+00 | 11   | .0000E+00 | 12   | .0000E+00 | 13   | .0000E+00 |
| 14                                        | .0000E+00 | 15   | .0000E+00 | 16   | .0000E+00 |      |           |      |           |
| 17                                        | .0000E+00 | 18   | .0000E+00 | 19   | .0000E+00 | 20   | .0000E+00 | 21   | .0000E+00 |
| 22                                        | .0000E+00 | 23   | .0000E+00 | 24   | .0000E+00 |      |           |      |           |
| DAY OF WEEK = SUNDAY                      |           |      |           |      |           |      |           |      |           |
| 1                                         | .0000E+00 | 2    | .0000E+00 | 3    | .0000E+00 | 4    | .0000E+00 | 5    | .0000E+00 |
| 6                                         | .0000E+00 | 7    | .0000E+00 | 8    | .0000E+00 |      |           |      |           |



```

    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
14 .0000E+00  15 .0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

```

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
    9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01
14 .1000E+01  15 .1000E+01  16 .1000E+01
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00
DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
14 .0000E+00  15 .0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00
DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
14 .0000E+00  15 .0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY

OF WEEK (HRDOW) \*

```
SOURCE ID = VOL3          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SATURDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SUNDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

```
SOURCE ID = VOL4          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
HOUR   SCALAR  HOUR   SCALAR  HOUR   SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
 OF WEEK (HRDOW) \*

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - - -  
 - - - - -

DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01  
 14 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00

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17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

```

( 378289.8, 3747311.1, 19.1, 19.1, 0.0); ( 378292.3,
3747493.8, 18.9, 18.9, 0.0);
( 378289.9, 3747408.7, 19.0, 19.0, 0.0); ( 378291.6,
3747328.6, 19.0, 19.0, 0.0);
( 378291.4, 3747417.9, 19.0, 19.0, 0.0); ( 378589.4,
3747342.0, 17.7, 17.7, 0.0);
( 378519.4, 3747305.1, 18.1, 18.1, 0.0); ( 378519.0,
3747395.9, 17.9, 17.9, 0.0);
( 378518.0, 3747292.2, 18.2, 18.2, 0.0); ( 378347.4,
3747259.7, 19.6, 19.6, 0.0);
( 378291.2, 3747266.9, 19.6, 19.6, 0.0); ( 378360.6,
3747202.7, 20.0, 20.0, 0.0);
( 378227.9, 3747366.4, 19.4, 19.4, 0.0); ( 378207.8,
3747536.3, 19.0, 19.0, 0.0);
( 378313.3, 3747203.2, 20.0, 20.0, 0.0); ( 378919.3,
3747184.9, 17.3, 17.3, 0.0);
( 378921.5, 3747245.3, 17.0, 17.0, 0.0); ( 378937.6,
3747441.6, 17.0, 17.0, 0.0);
( 378865.9, 3747523.7, 17.0, 17.0, 0.0); ( 378731.9,
3747454.6, 17.0, 17.0, 0.0);
( 378976.9, 3747269.0, 17.0, 17.0, 0.0); ( 378875.3,
3747301.2, 17.0, 17.0, 0.0);
( 378922.6, 3747029.0, 17.7, 17.7, 0.0); ( 378056.9,
3747325.1, 20.9, 20.9, 0.0);
( 379168.5, 3747645.6, 17.0, 17.0, 0.0); ( 377796.5,
3747904.9, 19.3, 19.3, 0.0);
( 378136.3, 3746743.3, 21.0, 21.0, 2.0); ( 378268.7,
3746735.6, 21.0, 21.0, 2.0);
( 378256.3, 3746996.6, 21.0, 21.0, 2.0); ( 378249.4,
3746847.9, 21.0, 21.0, 2.0);
( 378309.8, 3747165.4, 20.0, 20.0, 2.0); ( 378513.4,
3746995.0, 20.0, 20.0, 2.0);
( 378126.9, 3747243.5, 20.8, 20.8, 2.0); ( 378154.0,
3747245.6, 20.5, 20.5, 2.0);
( 378197.0, 3747247.6, 20.1, 20.1, 2.0); ( 378227.9,
3747244.7, 19.9, 19.9, 2.0);

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|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378273.2, 3747244.4, | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3, 17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
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| ( 378129.1, 3747249.4, | 20.8, | 20.8, | 0.0); | ( 378159.5, |
| 3747247.1, 20.5, 20.5, | 0.0); |       |       |             |
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| 3747247.7, 19.9, 19.9, | 0.0); |       |       |             |
| ( 378283.7, 3747245.2, | 19.8, | 19.8, | 0.0); | ( 378052.8, |
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| 3747316.0, 20.2, 20.2, | 0.0); |       |       |             |
| ( 378117.1, 3747344.8, | 20.1, | 20.1, | 0.0); | ( 378120.6, |
| 3747381.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378121.8, 3747450.2, | 19.7, | 19.7, | 0.0); | ( 378121.8, |
| 3747514.2, 19.1, 19.1, | 0.0); |       |       |             |
| ( 378118.2, 3747553.5, | 19.1, | 19.1, | 0.0); | ( 377945.4, |
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| 3747684.6, 19.0, 19.0, | 0.0); |       |       |             |
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| 3747702.2, 18.9, 18.9, | 0.0); |       |       |             |
| ( 377995.0, 3747255.0, | 21.0, | 21.0, | 0.0); | ( 377953.5, |
| 3747255.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377915.9, 3747255.3, | 21.0, | 21.0, | 0.0); | ( 377825.5, |
| 3747276.2, 21.0, 21.0, | 0.0); |       |       |             |

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( 377934.7, 3747187.4, 21.0, 21.0, 0.0); ( 377998.0,
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( 377996.5, 3746783.4, 21.0, 21.0, 0.0); ( 378132.8,
3746732.6, 21.0, 21.0, 0.0);
^ *** AERMOD - VERSION 23132 *** *** C:\Users\adadabhoy\Desktop\AERMOD\15795
Sequoia Commerce Center\1579 *** 09/11/24
*** AERMET - VERSION 16216 *** ***
*** 13:40:11

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PAGE 12

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

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

```

( 378131.1, 3746451.9, 21.0, 21.0, 0.0); ( 378131.1,
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( 378102.5, 3745973.7, 21.0, 21.0, 0.0); ( 378136.7,
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( 378020.8, 3745925.6, 21.0, 21.0, 0.0); ( 378098.0,
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( 377945.7, 3745896.2, 21.0, 21.0, 0.0); ( 377911.0,
3745974.3, 21.0, 21.0, 0.0);
( 377899.2, 3745974.3, 21.0, 21.0, 0.0); ( 377886.2,
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( 378905.6, 3746007.8, 21.0, 21.0, 0.0); ( 378849.3,
3745966.1, 21.0, 21.0, 0.0);
( 378850.6, 3745926.3, 21.0, 21.0, 0.0); ( 378904.8,
3745929.4, 21.0, 21.0, 0.0);
( 378905.1, 3745968.2, 21.0, 21.0, 0.0); ( 378792.6,
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( 378835.4, 3745898.0, 21.0, 21.0, 0.0); ( 378898.1,
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( 378968.5, 3745925.0, 21.0, 21.0, 0.0); ( 378822.6,
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( 378801.6, 3746268.5, 21.0, 21.0, 0.0); ( 378917.5,
3746278.5, 21.0, 21.0, 0.0);

```

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
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| ( 378914.1, 3746458.5, | 20.2, | 20.2, | 0.0); | ( 378821.2, |
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| ( 378821.6, 3746480.8, | 20.9, | 20.9, | 0.0); | ( 378912.3, |
| 3746735.4, 18.8, 18.8, | 0.0); |       |       |             |
| ( 378824.3, 3746713.0, | 19.9, | 19.9, | 0.0); | ( 378923.0, |
| 3746779.8, 18.6, 18.6, | 0.0); |       |       |             |
| ( 378695.8, 3746773.1, | 20.0, | 20.0, | 0.0); | ( 378680.5, |
| 3746992.7, 19.0, 19.0, | 0.0); |       |       |             |
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| ( 378555.9, 3747501.8, | 17.5, | 17.5, | 0.0); | ( 378866.8, |
| 3747547.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378884.0, 3747599.6, | 17.0, | 17.0, | 0.0); | ( 378918.0, |
| 3747592.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378917.3, 3747541.5, | 17.0, | 17.0, | 0.0); | ( 378840.8, |
| 3747574.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378988.7, 3747636.5, | 17.0, | 17.0, | 0.0); | ( 378848.1, |
| 3747632.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378841.0, 3747611.2, | 17.0, | 17.0, | 0.0); | ( 378928.5, |
| 3747713.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378927.1, 3747552.1, | 17.0, | 17.0, | 0.0); | ( 378917.2, |
| 3747527.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379036.5, 3747187.1, | 17.0, | 17.0, | 0.0); | ( 379090.8, |
| 3747248.4, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379099.4, 3747186.0, | 17.0, | 17.0, | 0.0); | ( 379204.3, |
| 3747183.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379162.7, 3747246.5, | 17.0, | 17.0, | 0.0); | ( 379279.4, |
| 3747178.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379301.8, 3747271.6, | 17.0, | 17.0, | 0.0); | ( 379235.4, |
| 3747244.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379422.0, 3747246.0, | 17.0, | 17.0, | 0.0); | ( 379458.5, |
| 3747191.3, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379434.3, 3747101.5, | 17.0, | 17.0, | 0.0); | ( 379478.2, |
| 3747231.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379500.7, 3747247.5, | 17.0, | 17.0, | 0.0); | ( 379596.7, |
| 3747228.7, 17.0, 17.0, | 0.0); |       |       |             |
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| 3747182.1, 17.0, 17.0, | 0.0); |       |       |             |
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| 3747183.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379678.1, 3747268.7, | 17.0, | 17.0, | 0.0); | ( 379687.5, |
| 3747141.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379728.0, 3747160.4, | 17.0, | 17.0, | 0.0); | ( 379841.9, |
| 3747187.9, 17.0, 17.0, | 0.0); |       |       |             |





1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

CATEGORIES \*\*\*  
\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED  
(METERS/SEC)

1.54, 3.09, 5.14, 8.23,  
10.80,  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:40:11

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

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

Surface file: KHRH\_V9\_ADJU\KHRH\_v9.SFC  
Met Version: 16216  
Profile file: KHRH\_V9\_ADJU\KHRH\_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3167 Upper air station no.: 3190  
Name: UNKNOWN Name: UNKNOWN  
Year: 2012 Year: 2012

First 24 hours of scalar data  
YR MO DY JDY HR H0 U\* W\* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN  
ALBEDO REF WS WD HT REF TA HT  
-----  
12 01 01 1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.24 2.79  
1.00 0.00 0. 7.9 283.8 2.0  
12 01 01 1 02 -2.1 0.068 -9.000 -9.000 -999. 43. 13.3 0.24 2.79  
1.00 0.53 305. 7.9 283.1 2.0  
12 01 01 1 03 -9.0 0.127 -9.000 -9.000 -999. 109. 20.8 0.24 2.79  
1.00 1.18 323. 7.9 282.5 2.0  
12 01 01 1 04 -2.2 0.068 -9.000 -9.000 -999. 43. 13.3 0.24 2.79  
1.00 0.53 296. 7.9 282.0 2.0

|      |      |      |     |       |        |        |        |        |       |       |          |      |      |
|------|------|------|-----|-------|--------|--------|--------|--------|-------|-------|----------|------|------|
| 12   | 01   | 01   | 1   | 05    | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 1.00 | 0.00 | 0.   | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 06    | -6.0   | 0.103  | -9.000 | -9.000 | -999. | 80.   | 16.7     | 0.24 | 2.79 |
| 1.00 | 0.97 | 321. | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 07    | -4.3   | 0.088  | -9.000 | -9.000 | -999. | 63.   | 14.4     | 0.24 | 2.79 |
| 1.00 | 0.82 | 313. | 7.9 | 280.4 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 08    | 15.7   | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 0.55 | 0.00 | 0.   | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 09    | 35.7   | 0.115  | 0.353  | 0.013  | 45.   | 93.   | -3.8     | 0.24 | 2.79 |
| 0.32 | 0.63 | 179. | 7.9 | 285.4 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 10    | 109.0  | 0.141  | 0.727  | 0.009  | 128.  | 127.  | -2.3     | 0.24 | 2.79 |
| 0.24 | 0.70 | 170. | 7.9 | 289.2 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 11    | 164.4  | 0.149  | 1.186  | 0.005  | 370.  | 138.  | -1.8     | 0.24 | 2.79 |
| 0.21 | 0.70 | 222. | 7.9 | 297.0 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 12    | 191.7  | 0.163  | 1.525  | 0.005  | 672.  | 158.  | -2.1     | 0.24 | 2.79 |
| 0.20 | 0.79 | 12.  | 7.9 | 299.9 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 13    | 191.3  | 0.170  | 1.819  | 0.005  | 1144. | 168.  | -2.3     | 0.24 | 2.79 |
| 0.20 | 0.84 | 260. | 7.9 | 300.9 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 14    | 161.6  | 0.344  | 1.852  | 0.005  | 1428. | 483.  | -22.7    | 0.24 | 2.79 |
| 0.21 | 2.49 | 260. | 7.9 | 298.8 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 15    | 105.0  | 0.367  | 1.638  | 0.005  | 1521. | 534.  | -42.8    | 0.24 | 2.79 |
| 0.24 | 2.84 | 292. | 7.9 | 293.8 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 16    | 29.7   | 0.383  | 1.079  | 0.005  | 1539. | 570.  | -172.5   | 0.24 | 2.79 |
| 0.33 | 3.22 | 276. | 7.9 | 290.4 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 17    | -24.8  | 0.287  | -9.000 | -9.000 | -999. | 374.  | 90.3     | 0.24 | 2.79 |
| 0.59 | 2.52 | 284. | 7.9 | 289.2 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 18    | -26.7  | 0.269  | -9.000 | -9.000 | -999. | 336.  | 79.8     | 0.24 | 2.79 |
| 1.00 | 2.38 | 285. | 7.9 | 287.5 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 19    | -10.2  | 0.137  | -9.000 | -9.000 | -999. | 133.  | 22.7     | 0.24 | 2.79 |
| 1.00 | 1.26 | 287. | 7.9 | 287.5 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 20    | -6.2   | 0.106  | -9.000 | -9.000 | -999. | 83.   | 17.2     | 0.24 | 2.79 |
| 1.00 | 0.99 | 303. | 7.9 | 287.0 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 21    | -7.6   | 0.117  | -9.000 | -9.000 | -999. | 96.   | 19.1     | 0.24 | 2.79 |
| 1.00 | 1.09 | 326. | 7.9 | 286.4 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 22    | -6.8   | 0.110  | -9.000 | -9.000 | -999. | 88.   | 18.0     | 0.24 | 2.79 |
| 1.00 | 1.03 | 297. | 7.9 | 285.9 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 23    | -19.9  | 0.200  | -9.000 | -9.000 | -999. | 214.  | 43.9     | 0.24 | 2.79 |
| 1.00 | 1.79 | 290. | 7.9 | 285.9 | 2.0    |        |        |        |       |       |          |      |      |
| 12   | 01   | 01   | 1   | 24    | -19.6  | 0.196  | -9.000 | -9.000 | -999. | 209.  | 42.3     | 0.24 | 2.79 |
| 1.00 | 1.76 | 282. | 7.9 | 285.9 | 2.0    |        |        |        |       |       |          |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 7.9    | 1 | -999. | -99.00 | 283.8   | 99.0   | -99.00 | -99.00 |

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

\*\*\* AERMOD - VERSION 23132 \*\*\*  
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 Sequoia Commerce Center\1579 \*\*\*  
 09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:40:11

PAGE 16

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

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): VOL1 , VOL2  
, VOL3 , VOL4 , PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM\_10 IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M)         | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|---------------------|------------|------------|-------------|
| Y-COORD (M) | CONC                | (YYMMDDHH) |            |             |
| 378289.83   | 3747311.07          | 0.47115    | (16050524) | 378292.28   |
| 3747493.83  | 0.12987 (13060624)  |            |            |             |
| 378289.93   | 3747408.68          | 0.22527    | (13060624) | 378291.63   |
| 3747328.59  | 0.38546 (16050524)  |            |            |             |
| 378291.42   | 3747417.90          | 0.21271    | (13060624) | 378589.39   |
| 3747341.97  | 0.22965 (13112024)  |            |            |             |
| 378519.42   | 3747305.13          | 0.29921    | (13112024) | 378519.01   |
| 3747395.88  | 0.19864 (13050624)  |            |            |             |
| 378517.98   | 3747292.17          | 0.31063    | (13112024) | 378347.39   |
| 3747259.66  | 0.66916 (13112024)  |            |            |             |
| 378291.17   | 3747266.91          | 0.78706    | (16050524) | 378360.59   |
| 3747202.71  | 0.77884 (12110824)  |            |            |             |
| 378227.93   | 3747366.41          | 0.28138c   | (14013024) | 378207.82   |
| 3747536.30  | 0.11148c (14013024) |            |            |             |
| 378313.28   | 3747203.17          | 1.11063    | (12110824) | 378919.28   |
| 3747184.91  | 0.12808 (12050124)  |            |            |             |
| 378921.54   | 3747245.33          | 0.12287    | (12050124) | 378937.65   |
| 3747441.57  | 0.10970 (13112024)  |            |            |             |
| 378865.93   | 3747523.67          | 0.09549    | (13112024) | 378731.88   |
| 3747454.64  | 0.12901 (13112024)  |            |            |             |
| 378976.87   | 3747269.00          | 0.10862    | (12050124) | 378875.27   |
| 3747301.16  | 0.13495c (16112124) |            |            |             |
| 378922.56   | 3747028.97          | 0.11551    | (12042324) | 378056.86   |
| 3747325.10  | 0.65034 (13043024)  |            |            |             |
| 379168.53   | 3747645.58          | 0.06321    | (13112024) | 377796.45   |
| 3747904.89  | 0.07578 (12112824)  |            |            |             |
| 378136.31   | 3746743.35          | 2.31971    | (16121924) | 378268.72   |
| 3746735.61  | 1.12519 (14122524)  |            |            |             |
| 378256.33   | 3746996.56          | 2.58717c   | (16112124) | 378249.36   |
| 3746847.89  | 3.03703b (12102924) |            |            |             |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378309.76  | 3747165.37 | 1.28521    | (12110824) | 378513.41 |
| 3746995.01 | 0.37085    | (12042324) |            |           |
| 378126.89  | 3747243.53 | 1.87693    | (13043024) | 378154.05 |
| 3747245.58 | 1.71718    | (13043024) |            |           |
| 378196.98  | 3747247.62 | 1.30032c   | (14013024) | 378227.94 |
| 3747244.70 | 1.27207c   | (13020624) |            |           |
| 378273.20  | 3747244.41 | 1.13162    | (13112024) | 378052.71 |
| 3747256.38 | 0.92757    | (13043024) |            |           |
| 378289.83  | 3747311.07 | 0.47115    | (16050524) | 378292.28 |
| 3747493.83 | 0.12987    | (13060624) |            |           |
| 378289.93  | 3747408.68 | 0.22527    | (13060624) | 378291.63 |
| 3747328.59 | 0.38546    | (16050524) |            |           |
| 378291.42  | 3747417.90 | 0.21271    | (13060624) | 378589.39 |
| 3747341.97 | 0.22965    | (13112024) |            |           |
| 378519.42  | 3747305.13 | 0.29921    | (13112024) | 378519.01 |
| 3747395.88 | 0.19864    | (13050624) |            |           |
| 378517.98  | 3747292.17 | 0.31063    | (13112024) | 378347.39 |
| 3747259.66 | 0.66916    | (13112024) |            |           |
| 378291.17  | 3747266.91 | 0.78706    | (16050524) | 378360.59 |
| 3747202.71 | 0.77884    | (12110824) |            |           |
| 378227.93  | 3747366.41 | 0.28138c   | (14013024) | 378207.82 |
| 3747536.30 | 0.11148c   | (14013024) |            |           |
| 378313.28  | 3747203.17 | 1.11063    | (12110824) | 378919.28 |
| 3747184.91 | 0.12808    | (12050124) |            |           |
| 378921.54  | 3747245.33 | 0.12287    | (12050124) | 378937.65 |
| 3747441.57 | 0.10970    | (13112024) |            |           |
| 378865.93  | 3747523.67 | 0.09549    | (13112024) | 378731.88 |
| 3747454.64 | 0.12901    | (13112024) |            |           |
| 378976.87  | 3747269.00 | 0.10862    | (12050124) | 378875.27 |
| 3747301.16 | 0.13495c   | (16112124) |            |           |
| 378922.56  | 3747028.97 | 0.11551    | (12042324) | 378056.86 |
| 3747325.10 | 0.65034    | (13043024) |            |           |
| 379168.53  | 3747645.58 | 0.06321    | (13112024) | 377796.45 |
| 3747904.89 | 0.07578    | (12112824) |            |           |
| 378129.14  | 3747249.41 | 1.70500    | (13043024) | 378159.47 |
| 3747247.15 | 1.63856    | (13043024) |            |           |
| 378200.25  | 3747247.32 | 1.29999m   | (14123124) | 378226.05 |
| 3747247.67 | 1.21083c   | (13020624) |            |           |
| 378283.74  | 3747245.23 | 1.06511    | (13112024) | 378052.80 |
| 3747257.43 | 0.93331    | (13043024) |            |           |
| 378116.42  | 3747276.78 | 1.14265    | (13043024) | 378117.29 |
| 3747315.99 | 0.71038    | (13043024) |            |           |
| 378117.11  | 3747344.75 | 0.52315    | (13043024) | 378120.60 |
| 3747381.70 | 0.36024    | (13043024) |            |           |
| 378121.82  | 3747450.20 | 0.22104c   | (13122024) | 378121.82 |
| 3747514.16 | 0.15423c   | (13122024) |            |           |
| 378118.16  | 3747553.55 | 0.12793c   | (13122024) | 377945.41 |
| 3747434.99 | 0.25774    | (13043024) |            |           |
| 378083.80  | 3747685.98 | 0.08282c   | (13122024) | 378124.58 |
| 3747684.58 | 0.07079c   | (13112724) |            |           |

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 Sequoia Commerce Center\1579 \*\*\* 09/11/24  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 , PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 378084.32   | 3747702.19  | 0.07729c   | (13122024) | 378124.58   |
| 3747702.19  | 0.06706c    | (13112724) |            |             |
| 377995.02   | 3747255.00  | 0.71208    | (12112924) | 377953.54   |
| 3747255.45  | 0.59297     | (12112924) |            |             |
| 377915.91   | 3747255.30  | 0.50916    | (12112924) | 377825.47   |
| 3747276.19  | 0.34831     | (12112924) |            |             |
| 377934.72   | 3747187.43  | 0.64548    | (12112924) | 377997.97   |
| 3746860.90  | 0.95844     | (14121624) |            |             |
| 377996.55   | 3746783.41  | 0.99135    | (14121624) | 378132.80   |
| 3746732.61  | 1.93603     | (16121924) |            |             |
| 378131.09   | 3746451.89  | 0.25322    | (16121924) | 378131.09   |
| 3746579.33  | 0.50173     | (16121924) |            |             |
| 378131.15   | 3746322.30  | 0.15537    | (16120224) | 378138.09   |
| 3746150.82  | 0.09136     | (16120224) |            |             |
| 378001.74   | 3746015.86  | 0.07863    | (16120224) | 378290.15   |
| 3746060.70  | 0.05061     | (16121924) |            |             |
| 378102.45   | 3745973.71  | 0.06792    | (16120224) | 378136.71   |
| 3745937.76  | 0.05657     | (16120224) |            |             |
| 378064.09   | 3745931.01  | 0.06754    | (16120224) | 378057.50   |
| 3745971.00  | 0.07363     | (16120224) |            |             |
| 378020.77   | 3745925.59  | 0.06897    | (16120224) | 378097.98   |
| 3745892.30  | 0.05847     | (16120224) |            |             |
| 377945.73   | 3745896.16  | 0.05857    | (16120224) | 377910.99   |
| 3745974.33  | 0.05800     | (16121924) |            |             |
| 377899.16   | 3745974.33  | 0.05625    | (16121924) | 377886.24   |
| 3745890.54  | 0.04998     | (16121924) |            |             |
| 378905.58   | 3746007.82  | 0.05159    | (14122524) | 378849.35   |

|            |                     |                               |
|------------|---------------------|-------------------------------|
| 3745966.07 | 0.05442 (14122524)  |                               |
| 378850.56  | 3745926.26          | 0.05112 (14122524) 378904.85  |
| 3745929.40 | 0.04933 (14122524)  |                               |
| 378905.09  | 3745968.24          | 0.05087 (14122524) 378792.65  |
| 3745935.43 | 0.05171 (14122524)  |                               |
| 378835.36  | 3745898.03          | 0.04846 (14122524) 378898.10  |
| 3745978.14 | 0.05179 (14122524)  |                               |
| 378905.58  | 3746139.80          | 0.05264 (15111624) 378989.79  |
| 3746015.30 | 0.04284 (15111624)  |                               |
| 378927.53  | 3745927.95          | 0.04779 (14122524) 378785.65  |
| 3745990.20 | 0.05818 (14122524)  |                               |
| 378968.55  | 3745925.05          | 0.04431 (14122524) 378822.57  |
| 3745867.87 | 0.04500 (14122524)  |                               |
| 378827.29  | 3746174.68          | 0.06395 (15111624) 378905.44  |
| 3746200.40 | 0.05141 (15111624)  |                               |
| 378801.57  | 3746268.53          | 0.06948 (15111624) 378917.46  |
| 3746278.55 | 0.04432 (15111624)  |                               |
| 378990.94  | 3746201.07          | 0.03738 (15111624) 378819.28  |
| 3746393.77 | 0.05826 (13011024)  |                               |
| 378915.13  | 3746385.08          | 0.04617 (13011024) 378802.58  |
| 3746327.97 | 0.06668 (15111624)  |                               |
| 378914.07  | 3746458.46          | 0.04403 (13011024) 378821.19  |
| 3746549.14 | 0.05754 (13011024)  |                               |
| 378821.59  | 3746480.77          | 0.05883 (13011024) 378912.35  |
| 3746735.38 | 0.08879c (12120424) |                               |
| 378824.34  | 3746712.99          | 0.09326c (12120424) 378922.96 |
| 3746779.78 | 0.09599c (12120424) |                               |
| 378695.85  | 3746773.10          | 0.15027c (12120424) 378680.53 |
| 3746992.74 | 0.21329 (12042324)  |                               |
| 378853.81  | 3747315.72          | 0.13896c (16112124) 378645.51 |
| 3747261.85 | 0.22729 (16040824)  |                               |
| 378640.80  | 3747343.96          | 0.20756 (13112024) 378507.67  |
| 3747524.45 | 0.11968 (14121824)  |                               |
| 378555.93  | 3747501.76          | 0.12031 (13050624) 378866.77  |
| 3747547.93 | 0.08519 (13112024)  |                               |
| 378884.04  | 3747599.56          | 0.06790 (12011624) 378918.04  |
| 3747592.76 | 0.07041 (13112024)  |                               |
| 378917.34  | 3747541.50          | 0.08938 (13112024) 378840.80  |
| 3747574.80 | 0.07414 (12011624)  |                               |
| 378988.66  | 3747636.53          | 0.06047 (13112024) 378848.12  |
| 3747632.69 | 0.05707 (13050624)  |                               |
| 378840.97  | 3747611.24          | 0.06190 (12011624) 378928.50  |
| 3747713.24 | 0.04589 (16011524)  |                               |
| 378927.11  | 3747552.13          | 0.08586 (13112024) 378917.20  |
| 3747527.25 | 0.09407 (13112024)  |                               |
| 379036.52  | 3747187.14          | 0.10140 (12050124) 379090.75  |
| 3747248.44 | 0.09250 (12050124)  |                               |
| 379099.40  | 3747185.96          | 0.08941 (12050124) 379204.32  |
| 3747183.21 | 0.07217 (12050124)  |                               |
| 379162.67  | 3747246.48          | 0.08213 (12050124) 379279.38  |

3747178.89      0.06148 (12050124)  
           379301.78    3747271.63      0.06571 (12050124)      379235.37  
 3747244.91      0.07260 (12050124)  
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 Sequoia Commerce Center\1579 \*\*\*      09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    FLGPOL    URBAN    ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):    VOL1    , VOL2  
                                  , VOL3    , VOL4    , PAREA1    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>10</sub>    IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M)         | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|---------------------|------------|------------|-------------|
| Y-COORD (M) | CONC                | (YYMMDDHH) |            |             |
| -           | -                   | -          | -          | -           |
| -           | -                   | -          | -          | -           |
| 379422.01   | 3747246.05          | 0.05273    | (12050124) | 379458.45   |
| 3747191.27  | 0.04545 (16070524)  |            |            |             |
| 379434.32   | 3747101.49          | 0.04787c   | (12082324) | 379478.24   |
| 3747231.81  | 0.04677 (12050124)  |            |            |             |
| 379500.69   | 3747247.50          | 0.04623    | (12050124) | 379596.74   |
| 3747228.67  | 0.03783 (12050124)  |            |            |             |
| 379559.58   | 3747187.16          | 0.04081    | (16070524) | 379599.40   |
| 3747182.10  | 0.03919 (16070524)  |            |            |             |
| 379527.96   | 3747129.48          | 0.04228    | (16070524) | 379645.25   |
| 3747183.54  | 0.03731 (16070524)  |            |            |             |
| 379678.07   | 3747268.74          | 0.03596    | (12050124) | 379687.49   |
| 3747141.55  | 0.03539 (16070524)  |            |            |             |
| 379728.03   | 3747160.37          | 0.03416    | (16070524) | 379841.94   |
| 3747187.89  | 0.03055 (16070524)  |            |            |             |
| 379834.70   | 3747231.09          | 0.03023    | (16070524) | 379835.94   |
| 3747433.82  | 0.03375 (12050124)  |            |            |             |
| 379790.14   | 3747436.93          | 0.03531    | (12050124) | 379790.73   |
| 3747506.45  | 0.03352 (12050124)  |            |            |             |
| 379838.60   | 3747509.86          | 0.03230    | (12050124) | 379845.57   |
| 3747562.92  | 0.02992 (12050124)  |            |            |             |
| 379789.40   | 3747527.20          | 0.03262    | (12050124) | 377635.37   |
| 3745747.00  | 0.03051 (16112424)  |            |            |             |
| 378209.49   | 3746740.07          | 1.90251    | (16121924) | 378248.32   |
| 3746798.00  | 2.42838c (12120424) |            |            |             |

378254.25 3746886.86 2.90638c (16112124)

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

\*\*\* THE SUMMARY OF HIGHEST 24-HR

RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M\*\*3

\*\*

| GROUP ID                      | AVERAGE CONC    | DATE       | RECEPTOR  |
|-------------------------------|-----------------|------------|-----------|
| (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE GRID-ID | (YYMMDDHH) |           |
| - - - - -                     | - - - - -       | - - - - -  | - - - - - |
| - - - - -                     | - - - - -       | - - - - -  | - - - - - |

ALL HIGH 1ST HIGH VALUE IS 3.03703b ON 12102924: AT ( 378249.36,  
3746847.89, 21.00, 21.00, 2.00) DC

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

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)  
  
A Total of 43848 Hours Were Processed



A Total of 1223 Calm Hours Identified

A Total of 251 Missing Hours Identified ( 0.57 Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

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

ME W186 152 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50

ME W187 152 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 12.0.0

\*\* Lakes Environmental Software Inc.

\*\* Date: 9/11/2024

\*\* File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Cons  
PM25\Cons PM25.ADI

\*\*

\*\*\*\*\*

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\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579

MODELOPT DFAULT CONC

AVERTIME 24

URBANOPT 9818605 County\_of\_Los\_Angeles

POLLUTID PM\_2.5

FLAGPOLE 2.00

RUNORNOT RUN

ERRORFIL "Cons PM25.err"

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

|                 |          |            |             |        |
|-----------------|----------|------------|-------------|--------|
| LOCATION VOL1   | VOLUME   | 378174.020 | 3747147.200 | 20.920 |
| LOCATION VOL2   | VOLUME   | 378172.352 | 3747015.221 | 21.000 |
| LOCATION VOL3   | VOLUME   | 378172.352 | 3746883.007 | 21.000 |
| LOCATION VOL4   | VOLUME   | 378169.974 | 3746842.107 | 21.000 |
| LOCATION PAREA1 | AREAPOLY | 378108.039 | 3747213.216 | 21.000 |

\*\* Source Parameters \*\*

|                 |              |             |            |             |
|-----------------|--------------|-------------|------------|-------------|
| SRCPARAM VOL1   | 0.0058678918 | 5.000       | 30.637     | 1.400       |
| SRCPARAM VOL2   | 0.0058678918 | 5.000       | 30.637     | 1.400       |
| SRCPARAM VOL3   | 0.0058678918 | 5.000       | 30.637     | 1.400       |
| SRCPARAM VOL4   | 0.0058678918 | 5.000       | 30.637     | 1.400       |
| SRCPARAM PAREA1 | 7.3336E-07   | 0.000       | 4          | 1.000       |
| AREAVERT PAREA1 | 378108.039   | 3747213.216 | 378240.132 | 3747212.245 |
| AREAVERT PAREA1 | 378235.923   | 3746774.850 | 378104.154 | 3746776.145 |
| URBANSRC ALL    |              |             |            |             |

\*\* Variable Emissions Type: "By Hour / Day (HRDOW)"

\*\* Variable Emission Scenario: "Scenario 2"

\*\* WeekDays:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| EMISFACT VOL1 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Saturday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Sunday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL1 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* WeekDays:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| EMISFACT VOL2 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Saturday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

\*\* Sunday:

|               |       |     |     |     |     |     |     |
|---------------|-------|-----|-----|-----|-----|-----|-----|
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| EMISFACT VOL2 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

|                 |                               |
|-----------------|-------------------------------|
| EMISFACT VOL2   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL2   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** WeekDays:    |                               |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 1.0 1.0 1.0 1.0 |
| EMISFACT VOL3   | HRDOW 1.0 1.0 1.0 1.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Saturday:    |                               |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Sunday:      |                               |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL3   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** WeekDays:    |                               |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 1.0 1.0 1.0 1.0 |
| EMISFACT VOL4   | HRDOW 1.0 1.0 1.0 1.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Saturday:    |                               |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Sunday:      |                               |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT VOL4   | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** WeekDays:    |                               |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 1.0 1.0 1.0 1.0 |
| EMISFACT PAREA1 | HRDOW 1.0 1.0 1.0 1.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Saturday:    |                               |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| ** Sunday:      |                               |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| EMISFACT PAREA1 | HRDOW 0.0 0.0 0.0 0.0 0.0 0.0 |
| SRCGROUP ALL    |                               |
| SO FINISHED     |                               |
| **              |                               |

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "Cons PM25.rou"

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE KHHR\_V9\_ADJU\KHHR\_v9.SFC

PROFFILE KHHR\_V9\_ADJU\KHHR\_v9.PFL

SURFDATA 3167 2012

UAIRDATA 3190 2012

PROFBASE 19.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "CONS PM25.AD\24H1GALL.PLT" 31

SUMMFILE "Cons PM25.sum"

OU FINISHED

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

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

|            |                            |
|------------|----------------------------|
| A Total of | 0 Fatal Error Message(s)   |
| A Total of | 2 Warning Message(s)       |
| A Total of | 0 Informational Message(s) |

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

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

ME W186        152        MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
                 0.50  
ME W187        152        MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

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                                 \*\*\*        13:47:02

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\*\*\* MODELOPTs:        RegDFAULT    CONC    ELEV    FLGPOL    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        5 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
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates    1 Short Term Average(s) of:    24-HR

\*\*This Run Includes:        5 Source(s);        1 Source Group(s); and        185  
Receptor(s)

with:        0 POINT(s), including

and: 0 POINTCAP(s) and 0 POINTHOR(s)  
 and: 4 VOLUME source(s)  
 and: 1 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 Highest Short Term Values by Receptor (RECTABLE  
 Keyword)  
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
 Keyword)  
 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
 Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing  
 Hours  
 b for Both Calm  
 and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
 Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ;  
 Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Cons PM25.err

\*\*File for Summary of Results: Cons PM25.sum

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 \*\*\* 13:47:02

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

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

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

|      |     |       |             |          |           |      |      |       |
|------|-----|-------|-------------|----------|-----------|------|------|-------|
| VOL1 |     | 0     | 0.58679E-02 | 378174.0 | 3747147.2 | 20.9 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW |             | NO       |           |      |      |       |
| VOL2 |     | 0     | 0.58679E-02 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW |             | NO       |           |      |      |       |
| VOL3 |     | 0     | 0.58679E-02 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW |             | NO       |           |      |      |       |
| VOL4 |     | 0     | 0.58679E-02 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES | HRDOW |             | NO       |           |      |      |       |

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

## \*\*\* AREAPOLY SOURCE DATA \*\*\*

| INIT.    | URBAN  | NUMBER   | EMISSION   | RATE     | LOCATION OF AREA | BASE     | RELEASE  | NUMBER    |
|----------|--------|----------|------------|----------|------------------|----------|----------|-----------|
| SOURCE   |        | EMISSION | RATE       | AIRCRAFT |                  | ELEV.    | HEIGHT   | OF VERTS. |
| SZ       | SOURCE | SCALAR   | VARY       |          |                  |          |          |           |
| ID       |        | CATS.    | /METER**2) | (METERS) | (METERS)         | (METERS) | (METERS) |           |
| (METERS) |        | BY       |            |          |                  |          |          |           |

|        |     |       |             |          |           |      |      |   |
|--------|-----|-------|-------------|----------|-----------|------|------|---|
| PAREA1 |     | 0     | 0.73336E-06 | 378108.0 | 3747213.2 | 21.0 | 0.00 | 4 |
| 1.00   | YES | HRDOW |             | NO       |           |      |      |   |

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

-----

-----

ALL VOL1 , VOL2 , VOL3 , VOL4 , PAREA1 ,  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

\*\*\*

URBAN ID URBAN POP

SOURCE IDs

-----

-----

9818605. VOL1 , VOL2 , VOL3 , VOL4 ,  
PAREA1 ,  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01



14 .1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - - -  
- - - - -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01  
14 .1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00

```

    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
14 .0000E+00  15 .0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

```

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

```

```

- - - - - DAY OF WEEK = WEEKDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
    9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01
14 .1000E+01  15 .1000E+01  16 .1000E+01
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00

```

```

- - - - - DAY OF WEEK = SATURDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
14 .0000E+00  15 .0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00

```

```

- - - - - DAY OF WEEK = SUNDAY
    1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
    9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
14 .0000E+00  15 .0000E+00  16 .0000E+00
    17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00

```

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY

OF WEEK (HRDOW) \*

```
SOURCE ID = VOL4          ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SATURDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SUNDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY  
OF WEEK (HRDOW) \*

```
SOURCE ID = PAREA1        ; SOURCE TYPE = AREAPOLY :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
                                DAY OF WEEK = WEEKDAY
      1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00
6 .0000E+00    7 .0000E+00    8 .0000E+00
      9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
      17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
```

22 .0000E+00 23 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
 Sequoia Commerce Center\1579 \*\*\* 09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 13:47:02

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

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9,       | 18.9, | 0.0); |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0,       | 19.0, | 0.0); |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7,       | 17.7, | 0.0); |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9,       | 17.9, | 0.0); |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6,       | 19.6, | 0.0); |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0,       | 20.0, | 0.0); |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0,       | 19.0, | 0.0); |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3,       | 17.3, | 0.0); |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0,       | 17.0, | 0.0); |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0,       | 17.0, | 0.0); |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0,       | 17.0, | 0.0); |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |

|             |            |       |       |       |             |
|-------------|------------|-------|-------|-------|-------------|
| 3747325.1,  | 20.9,      | 20.9, | 0.0); |       |             |
| ( 379168.5, | 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9,  | 19.3,      | 19.3, | 0.0); |       |             |
| ( 378136.3, | 3746743.3, | 21.0, | 21.0, | 2.0); | ( 378268.7, |
| 3746735.6,  | 21.0,      | 21.0, | 2.0); |       |             |
| ( 378256.3, | 3746996.6, | 21.0, | 21.0, | 2.0); | ( 378249.4, |
| 3746847.9,  | 21.0,      | 21.0, | 2.0); |       |             |
| ( 378309.8, | 3747165.4, | 20.0, | 20.0, | 2.0); | ( 378513.4, |
| 3746995.0,  | 20.0,      | 20.0, | 2.0); |       |             |
| ( 378126.9, | 3747243.5, | 20.8, | 20.8, | 2.0); | ( 378154.0, |
| 3747245.6,  | 20.5,      | 20.5, | 2.0); |       |             |
| ( 378197.0, | 3747247.6, | 20.1, | 20.1, | 2.0); | ( 378227.9, |
| 3747244.7,  | 19.9,      | 19.9, | 2.0); |       |             |
| ( 378273.2, | 3747244.4, | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4,  | 21.0,      | 21.0, | 2.0); |       |             |
| ( 378289.8, | 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8,  | 18.9,      | 18.9, | 0.0); |       |             |
| ( 378289.9, | 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6,  | 19.0,      | 19.0, | 0.0); |       |             |
| ( 378291.4, | 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0,  | 17.7,      | 17.7, | 0.0); |       |             |
| ( 378519.4, | 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9,  | 17.9,      | 17.9, | 0.0); |       |             |
| ( 378518.0, | 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7,  | 19.6,      | 19.6, | 0.0); |       |             |
| ( 378291.2, | 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7,  | 20.0,      | 20.0, | 0.0); |       |             |
| ( 378227.9, | 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3,  | 19.0,      | 19.0, | 0.0); |       |             |
| ( 378313.3, | 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9,  | 17.3,      | 17.3, | 0.0); |       |             |
| ( 378921.5, | 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378865.9, | 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378976.9, | 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378922.6, | 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1,  | 20.9,      | 20.9, | 0.0); |       |             |
| ( 379168.5, | 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9,  | 19.3,      | 19.3, | 0.0); |       |             |
| ( 378129.1, | 3747249.4, | 20.8, | 20.8, | 0.0); | ( 378159.5, |
| 3747247.1,  | 20.5,      | 20.5, | 0.0); |       |             |
| ( 378200.2, | 3747247.3, | 20.0, | 20.0, | 0.0); | ( 378226.0, |
| 3747247.7,  | 19.9,      | 19.9, | 0.0); |       |             |
| ( 378283.7, | 3747245.2, | 19.8, | 19.8, | 0.0); | ( 378052.8, |
| 3747257.4,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378116.4, | 3747276.8, | 20.6, | 20.6, | 0.0); | ( 378117.3, |
| 3747316.0,  | 20.2,      | 20.2, | 0.0); |       |             |
| ( 378117.1, | 3747344.8, | 20.1, | 20.1, | 0.0); | ( 378120.6, |

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3747381.7,      20.0,      20.0,      0.0);
( 378121.8, 3747450.2,      19.7,      19.7,      0.0);      ( 378121.8,
3747514.2,      19.1,      19.1,      0.0);
( 378118.2, 3747553.5,      19.1,      19.1,      0.0);      ( 377945.4,
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( 378083.8, 3747686.0,      19.0,      19.0,      0.0);      ( 378124.6,
3747684.6,      19.0,      19.0,      0.0);
( 378084.3, 3747702.2,      19.0,      19.0,      0.0);      ( 378124.6,
3747702.2,      18.9,      18.9,      0.0);
( 377995.0, 3747255.0,      21.0,      21.0,      0.0);      ( 377953.5,
3747255.4,      21.0,      21.0,      0.0);
( 377915.9, 3747255.3,      21.0,      21.0,      0.0);      ( 377825.5,
3747276.2,      21.0,      21.0,      0.0);
( 377934.7, 3747187.4,      21.0,      21.0,      0.0);      ( 377998.0,
3746860.9,      21.0,      21.0,      0.0);
( 377996.5, 3746783.4,      21.0,      21.0,      0.0);      ( 378132.8,
3746732.6,      21.0,      21.0,      0.0);
^ *** AERMOD - VERSION 23132 ***      *** C:\Users\adadabhoy\Desktop\AERMOD\15795
Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
***      13:47:02

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

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

```

( 378131.1, 3746451.9,      21.0,      21.0,      0.0);      ( 378131.1,
3746579.3,      21.0,      21.0,      0.0);
( 378131.1, 3746322.3,      21.0,      21.0,      0.0);      ( 378138.1,
3746150.8,      21.0,      21.0,      0.0);
( 378001.7, 3746015.9,      21.0,      21.0,      0.0);      ( 378290.1,
3746060.7,      21.0,      21.0,      0.0);
( 378102.5, 3745973.7,      21.0,      21.0,      0.0);      ( 378136.7,
3745937.8,      21.0,      21.0,      0.0);
( 378064.1, 3745931.0,      21.0,      21.0,      0.0);      ( 378057.5,
3745971.0,      21.0,      21.0,      0.0);
( 378020.8, 3745925.6,      21.0,      21.0,      0.0);      ( 378098.0,
3745892.3,      21.0,      21.0,      0.0);
( 377945.7, 3745896.2,      21.0,      21.0,      0.0);      ( 377911.0,
3745974.3,      21.0,      21.0,      0.0);
( 377899.2, 3745974.3,      21.0,      21.0,      0.0);      ( 377886.2,
3745890.5,      21.0,      21.0,      0.0);
( 378905.6, 3746007.8,      21.0,      21.0,      0.0);      ( 378849.3,
3745966.1,      21.0,      21.0,      0.0);
( 378850.6, 3745926.3,      21.0,      21.0,      0.0);      ( 378904.8,
3745929.4,      21.0,      21.0,      0.0);
( 378905.1, 3745968.2,      21.0,      21.0,      0.0);      ( 378792.6,

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|             |            |       |       |       |             |
|-------------|------------|-------|-------|-------|-------------|
| 3745935.4,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378835.4, | 3745898.0, | 21.0, | 21.0, | 0.0); | ( 378898.1, |
| 3745978.1,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378905.6, | 3746139.8, | 21.0, | 21.0, | 0.0); | ( 378989.8, |
| 3746015.3,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378927.5, | 3745927.9, | 21.0, | 21.0, | 0.0); | ( 378785.6, |
| 3745990.2,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378968.5, | 3745925.0, | 21.0, | 21.0, | 0.0); | ( 378822.6, |
| 3745867.9,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378827.3, | 3746174.7, | 21.0, | 21.0, | 0.0); | ( 378905.4, |
| 3746200.4,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378801.6, | 3746268.5, | 21.0, | 21.0, | 0.0); | ( 378917.5, |
| 3746278.5,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378990.9, | 3746201.1, | 21.0, | 21.0, | 0.0); | ( 378819.3, |
| 3746393.8,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378915.1, | 3746385.1, | 20.6, | 20.6, | 0.0); | ( 378802.6, |
| 3746328.0,  | 21.0,      | 21.0, | 0.0); |       |             |
| ( 378914.1, | 3746458.5, | 20.2, | 20.2, | 0.0); | ( 378821.2, |
| 3746549.1,  | 20.2,      | 20.2, | 0.0); |       |             |
| ( 378821.6, | 3746480.8, | 20.9, | 20.9, | 0.0); | ( 378912.3, |
| 3746735.4,  | 18.8,      | 18.8, | 0.0); |       |             |
| ( 378824.3, | 3746713.0, | 19.9, | 19.9, | 0.0); | ( 378923.0, |
| 3746779.8,  | 18.6,      | 18.6, | 0.0); |       |             |
| ( 378695.8, | 3746773.1, | 20.0, | 20.0, | 0.0); | ( 378680.5, |
| 3746992.7,  | 19.0,      | 19.0, | 0.0); |       |             |
| ( 378853.8, | 3747315.7, | 17.0, | 17.0, | 0.0); | ( 378645.5, |
| 3747261.8,  | 18.0,      | 18.0, | 0.0); |       |             |
| ( 378640.8, | 3747344.0, | 17.7, | 17.7, | 0.0); | ( 378507.7, |
| 3747524.4,  | 17.8,      | 17.8, | 0.0); |       |             |
| ( 378555.9, | 3747501.8, | 17.5, | 17.5, | 0.0); | ( 378866.8, |
| 3747547.9,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378884.0, | 3747599.6, | 17.0, | 17.0, | 0.0); | ( 378918.0, |
| 3747592.8,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378917.3, | 3747541.5, | 17.0, | 17.0, | 0.0); | ( 378840.8, |
| 3747574.8,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378988.7, | 3747636.5, | 17.0, | 17.0, | 0.0); | ( 378848.1, |
| 3747632.7,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378841.0, | 3747611.2, | 17.0, | 17.0, | 0.0); | ( 378928.5, |
| 3747713.2,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378927.1, | 3747552.1, | 17.0, | 17.0, | 0.0); | ( 378917.2, |
| 3747527.2,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 379036.5, | 3747187.1, | 17.0, | 17.0, | 0.0); | ( 379090.8, |
| 3747248.4,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 379099.4, | 3747186.0, | 17.0, | 17.0, | 0.0); | ( 379204.3, |
| 3747183.2,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 379162.7, | 3747246.5, | 17.0, | 17.0, | 0.0); | ( 379279.4, |
| 3747178.9,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 379301.8, | 3747271.6, | 17.0, | 17.0, | 0.0); | ( 379235.4, |
| 3747244.9,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 379422.0, | 3747246.0, | 17.0, | 17.0, | 0.0); | ( 379458.5, |





NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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10.80,
1.54, 3.09, 5.14, 8.23,
*** AERMOD - VERSION 23132 *** C:\Users\adadabhoy\Desktop\AERMOD\15795
Sequoia Commerce Center\1579 *** 09/11/24
*** AERMET - VERSION 16216 ***
*** 13:47:02

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DATA \*\*\*

```
Upper air station no.:      3190
                        Name: UNKNOWN
                        Year:  2012
```

First 24 hours of scalar data

| YR     | MO  | DY | JDY | HR | H0  | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN |
|--------|-----|----|-----|----|-----|----|----|-------|-------|-------|-----|-----|----|-------|
| ALBEDO | REF | WS | WD  | HT | REF | TA | HT |       |       |       |     |     |    |       |

- - - - -

|      |      |      |   |    |        |        |        |        |       |       |          |      |      |  |
|------|------|------|---|----|--------|--------|--------|--------|-------|-------|----------|------|------|--|
| 12   | 01   | 01   | 1 | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |  |
| 1.00 | 0.00 | 0.   |   |    | 7.9    | 283.8  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 02 | -2.1   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |  |
| 1.00 | 0.53 | 305. |   |    | 7.9    | 283.1  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 03 | -9.0   | 0.127  | -9.000 | -9.000 | -999. | 109.  | 20.8     | 0.24 | 2.79 |  |
| 1.00 | 1.18 | 323. |   |    | 7.9    | 282.5  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 04 | -2.2   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |  |
| 1.00 | 0.53 | 296. |   |    | 7.9    | 282.0  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |  |
| 1.00 | 0.00 | 0.   |   |    | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 06 | -6.0   | 0.103  | -9.000 | -9.000 | -999. | 80.   | 16.7     | 0.24 | 2.79 |  |
| 1.00 | 0.97 | 321. |   |    | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 07 | -4.3   | 0.088  | -9.000 | -9.000 | -999. | 63.   | 14.4     | 0.24 | 2.79 |  |
| 1.00 | 0.82 | 313. |   |    | 7.9    | 280.4  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 08 | 15.7   | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |  |
| 0.55 | 0.00 | 0.   |   |    | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 09 | 35.7   | 0.115  | 0.353  | 0.013  | 45.   | 93.   | -3.8     | 0.24 | 2.79 |  |
| 0.32 | 0.63 | 179. |   |    | 7.9    | 285.4  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 10 | 109.0  | 0.141  | 0.727  | 0.009  | 128.  | 127.  | -2.3     | 0.24 | 2.79 |  |
| 0.24 | 0.70 | 170. |   |    | 7.9    | 289.2  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 11 | 164.4  | 0.149  | 1.186  | 0.005  | 370.  | 138.  | -1.8     | 0.24 | 2.79 |  |
| 0.21 | 0.70 | 222. |   |    | 7.9    | 297.0  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 12 | 191.7  | 0.163  | 1.525  | 0.005  | 672.  | 158.  | -2.1     | 0.24 | 2.79 |  |
| 0.20 | 0.79 | 12.  |   |    | 7.9    | 299.9  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 13 | 191.3  | 0.170  | 1.819  | 0.005  | 1144. | 168.  | -2.3     | 0.24 | 2.79 |  |
| 0.20 | 0.84 | 260. |   |    | 7.9    | 300.9  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 14 | 161.6  | 0.344  | 1.852  | 0.005  | 1428. | 483.  | -22.7    | 0.24 | 2.79 |  |
| 0.21 | 2.49 | 260. |   |    | 7.9    | 298.8  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 15 | 105.0  | 0.367  | 1.638  | 0.005  | 1521. | 534.  | -42.8    | 0.24 | 2.79 |  |
| 0.24 | 2.84 | 292. |   |    | 7.9    | 293.8  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 16 | 29.7   | 0.383  | 1.079  | 0.005  | 1539. | 570.  | -172.5   | 0.24 | 2.79 |  |
| 0.33 | 3.22 | 276. |   |    | 7.9    | 290.4  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 17 | -24.8  | 0.287  | -9.000 | -9.000 | -999. | 374.  | 90.3     | 0.24 | 2.79 |  |
| 0.59 | 2.52 | 284. |   |    | 7.9    | 289.2  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 18 | -26.7  | 0.269  | -9.000 | -9.000 | -999. | 336.  | 79.8     | 0.24 | 2.79 |  |
| 1.00 | 2.38 | 285. |   |    | 7.9    | 287.5  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 19 | -10.2  | 0.137  | -9.000 | -9.000 | -999. | 133.  | 22.7     | 0.24 | 2.79 |  |
| 1.00 | 1.26 | 287. |   |    | 7.9    | 287.5  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 20 | -6.2   | 0.106  | -9.000 | -9.000 | -999. | 83.   | 17.2     | 0.24 | 2.79 |  |
| 1.00 | 0.99 | 303. |   |    | 7.9    | 287.0  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 21 | -7.6   | 0.117  | -9.000 | -9.000 | -999. | 96.   | 19.1     | 0.24 | 2.79 |  |
| 1.00 | 1.09 | 326. |   |    | 7.9    | 286.4  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 22 | -6.8   | 0.110  | -9.000 | -9.000 | -999. | 88.   | 18.0     | 0.24 | 2.79 |  |
| 1.00 | 1.03 | 297. |   |    | 7.9    | 285.9  | 2.0    |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1 | 23 | -19.9  | 0.200  | -9.000 | -9.000 | -999. | 214.  | 43.9     | 0.24 | 2.79 |  |

```

1.00    1.79  290.    7.9  285.9    2.0
  12 01 01   1 24 -19.6  0.196 -9.000 -9.000 -999.  209.    42.3  0.24  2.79
1.00    1.76  282.    7.9  285.9    2.0

```

First hour of profile data

```

YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00  283.8   99.0  -99.00  -99.00

```

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

```

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Sequoia Commerce Center\1579 *** 09/11/24
*** AERMET - VERSION 16216 *** ***
***                                     13:47:02

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*** MODELOPTs:   RegDFault  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

```

```

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
                                INCLUDING SOURCE(S):  VOL1          , VOL2
, VOL3          , VOL4          , PAREA1          ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| -           | -           | -          | -          | -           |
| -           | -           | -          | -          | -           |
| 378289.83   | 3747311.07  | 0.25524    | (16050524) | 378292.28   |
| 3747493.83  | 0.06968     | (13060624) |            |             |
| 378289.93   | 3747408.68  | 0.12017    | (13060624) | 378291.63   |
| 3747328.59  | 0.20931     | (16050524) |            |             |
| 378291.42   | 3747417.90  | 0.11348    | (13060624) | 378589.39   |
| 3747341.97  | 0.12553     | (13112024) |            |             |
| 378519.42   | 3747305.13  | 0.16363    | (13112024) | 378519.01   |
| 3747395.88  | 0.10893     | (13050624) |            |             |
| 378517.98   | 3747292.17  | 0.17011    | (13112024) | 378347.39   |
| 3747259.66  | 0.36284     | (13112024) |            |             |
| 378291.17   | 3747266.91  | 0.42399    | (16050524) | 378360.59   |
| 3747202.71  | 0.42440     | (12110824) |            |             |
| 378227.93   | 3747366.41  | 0.14772c   | (14013024) | 378207.82   |
| 3747536.30  | 0.05884c    | (13112724) |            |             |
| 378313.28   | 3747203.17  | 0.60129    | (12110824) | 378919.28   |
| 3747184.91  | 0.07037     | (12050124) |            |             |
| 378921.54   | 3747245.33  | 0.06717    | (12050124) | 378937.65   |

|            |                     |                               |
|------------|---------------------|-------------------------------|
| 3747441.57 | 0.05991 (13112024)  |                               |
| 378865.93  | 3747523.67          | 0.05220 (13112024) 378731.88  |
| 3747454.64 | 0.07058 (13112024)  |                               |
| 378976.87  | 3747269.00          | 0.05945c (16112124) 378875.27 |
| 3747301.16 | 0.07456c (16112124) |                               |
| 378922.56  | 3747028.97          | 0.06383 (12042324) 378056.86  |
| 3747325.10 | 0.35227 (13043024)  |                               |
| 379168.53  | 3747645.58          | 0.03437 (13112024) 377796.45  |
| 3747904.89 | 0.04067 (12112824)  |                               |
| 378136.31  | 3746743.35          | 1.23105 (16121924) 378268.72  |
| 3746735.61 | 0.62976 (14122524)  |                               |
| 378256.33  | 3746996.56          | 1.37229c (16112124) 378249.36 |
| 3746847.89 | 1.66837c (16112124) |                               |
| 378309.76  | 3747165.37          | 0.70053 (12110824) 378513.41  |
| 3746995.01 | 0.20677 (12042324)  |                               |
| 378126.89  | 3747243.53          | 1.00707 (13043024) 378154.05  |
| 3747245.58 | 0.92857 (13043024)  |                               |
| 378196.98  | 3747247.62          | 0.66771c (14013024) 378227.94 |
| 3747244.70 | 0.67848c (13020624) |                               |
| 378273.20  | 3747244.41          | 0.60656 (13112024) 378052.71  |
| 3747256.38 | 0.50313 (13043024)  |                               |
| 378289.83  | 3747311.07          | 0.25524 (16050524) 378292.28  |
| 3747493.83 | 0.06968 (13060624)  |                               |
| 378289.93  | 3747408.68          | 0.12017 (13060624) 378291.63  |
| 3747328.59 | 0.20931 (16050524)  |                               |
| 378291.42  | 3747417.90          | 0.11348 (13060624) 378589.39  |
| 3747341.97 | 0.12553 (13112024)  |                               |
| 378519.42  | 3747305.13          | 0.16363 (13112024) 378519.01  |
| 3747395.88 | 0.10893 (13050624)  |                               |
| 378517.98  | 3747292.17          | 0.17011 (13112024) 378347.39  |
| 3747259.66 | 0.36284 (13112024)  |                               |
| 378291.17  | 3747266.91          | 0.42399 (16050524) 378360.59  |
| 3747202.71 | 0.42440 (12110824)  |                               |
| 378227.93  | 3747366.41          | 0.14772c (14013024) 378207.82 |
| 3747536.30 | 0.05884c (13112724) |                               |
| 378313.28  | 3747203.17          | 0.60129 (12110824) 378919.28  |
| 3747184.91 | 0.07037 (12050124)  |                               |
| 378921.54  | 3747245.33          | 0.06717 (12050124) 378937.65  |
| 3747441.57 | 0.05991 (13112024)  |                               |
| 378865.93  | 3747523.67          | 0.05220 (13112024) 378731.88  |
| 3747454.64 | 0.07058 (13112024)  |                               |
| 378976.87  | 3747269.00          | 0.05945c (16112124) 378875.27 |
| 3747301.16 | 0.07456c (16112124) |                               |
| 378922.56  | 3747028.97          | 0.06383 (12042324) 378056.86  |
| 3747325.10 | 0.35227 (13043024)  |                               |
| 379168.53  | 3747645.58          | 0.03437 (13112024) 377796.45  |
| 3747904.89 | 0.04067 (12112824)  |                               |
| 378129.14  | 3747249.41          | 0.91538 (13043024) 378159.47  |
| 3747247.15 | 0.88475 (13043024)  |                               |
| 378200.25  | 3747247.32          | 0.66467m (14123124) 378226.05 |

```

3747247.67      0.64614c (13020624)
      378283.74    3747245.23      0.57161 (13112024)      378052.80
3747257.43      0.50499 (13043024)
      378116.42    3747276.78      0.61720 (13043024)      378117.29
3747315.99      0.38687 (13043024)
      378117.11    3747344.75      0.28615 (13043024)      378120.60
3747381.70      0.19822 (13043024)
      378121.82    3747450.20      0.11962c (13122024)      378121.82
3747514.16      0.08391c (13122024)
      378118.16    3747553.55      0.06978c (13122024)      377945.41
3747434.99      0.14133 (13043024)
      378083.80    3747685.98      0.04521c (13122024)      378124.58
3747684.58      0.03760 (16111824)
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Sequoia Commerce Center\1579 *** 09/11/24
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*** 13:47:02

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*** MODELOPTs:      RegDFault  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
                        INCLUDING SOURCE(S):      VOL1      , VOL2
, VOL3      , VOL4      , PAREA1      ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

```

```

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
- - - - -
378084.32 3747702.19 0.04226c (13122024) 378124.58
3747702.19 0.03553c (13112724)
377995.02 3747255.00 0.38712 (12112924) 377953.54
3747255.45 0.32325 (12112924)
377915.91 3747255.30 0.27823 (12112924) 377825.47
3747276.19 0.19147 (12112924)
377934.72 3747187.43 0.35278 (12112924) 377997.97
3746860.90 0.52926 (14121624)
377996.55 3746783.41 0.55429 (14121624) 378132.80
3746732.61 1.02478 (16121924)
378131.09 3746451.89 0.13721 (16121924) 378131.09
3746579.33 0.27009 (16121924)
378131.15 3746322.30 0.08378 (16120224) 378138.09
3746150.82 0.04937 (16120224)

```

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378001.74  | 3746015.86 | 0.04228    | (16120224) | 378290.15 |
| 3746060.70 | 0.02859    | (16121924) |            |           |
| 378102.45  | 3745973.71 | 0.03656    | (16120224) | 378136.71 |
| 3745937.76 | 0.03057    | (16120224) |            |           |
| 378064.09  | 3745931.01 | 0.03625    | (16120224) | 378057.50 |
| 3745971.00 | 0.03951    | (16120224) |            |           |
| 378020.77  | 3745925.59 | 0.03698    | (16120224) | 378097.98 |
| 3745892.30 | 0.03146    | (16120224) |            |           |
| 377945.73  | 3745896.16 | 0.03162    | (16120224) | 377910.99 |
| 3745974.33 | 0.03073    | (16121924) |            |           |
| 377899.16  | 3745974.33 | 0.02983    | (16121924) | 377886.24 |
| 3745890.54 | 0.02646    | (16121924) |            |           |
| 378905.58  | 3746007.82 | 0.02823    | (14122524) | 378849.35 |
| 3745966.07 | 0.02981    | (14122524) |            |           |
| 378850.56  | 3745926.26 | 0.02805    | (14122524) | 378904.85 |
| 3745929.40 | 0.02698    | (14122524) |            |           |
| 378905.09  | 3745968.24 | 0.02781    | (14122524) | 378792.65 |
| 3745935.43 | 0.02853    | (14122524) |            |           |
| 378835.36  | 3745898.03 | 0.02667    | (14122524) | 378898.10 |
| 3745978.14 | 0.02832    | (14122524) |            |           |
| 378905.58  | 3746139.80 | 0.02905    | (15111624) | 378989.79 |
| 3746015.30 | 0.02360    | (15111624) |            |           |
| 378927.53  | 3745927.95 | 0.02612    | (14122524) | 378785.65 |
| 3745990.20 | 0.03199    | (14122524) |            |           |
| 378968.55  | 3745925.05 | 0.02423    | (14122524) | 378822.57 |
| 3745867.87 | 0.02487    | (14122524) |            |           |
| 378827.29  | 3746174.68 | 0.03523    | (15111624) | 378905.44 |
| 3746200.40 | 0.02848    | (15111624) |            |           |
| 378801.57  | 3746268.53 | 0.03839    | (15111624) | 378917.46 |
| 3746278.55 | 0.02478    | (15111624) |            |           |
| 378990.94  | 3746201.07 | 0.02089    | (15111624) | 378819.28 |
| 3746393.77 | 0.03181    | (13011024) |            |           |
| 378915.13  | 3746385.08 | 0.02528    | (13011024) | 378802.58 |
| 3746327.97 | 0.03701    | (15111624) |            |           |
| 378914.07  | 3746458.46 | 0.02441    | (13011024) | 378821.19 |
| 3746549.14 | 0.03209    | (13011024) |            |           |
| 378821.59  | 3746480.77 | 0.03243    | (13011024) | 378912.35 |
| 3746735.38 | 0.04883c   | (12120424) |            |           |
| 378824.34  | 3746712.99 | 0.05157c   | (12120424) | 378922.96 |
| 3746779.78 | 0.05272c   | (12120424) |            |           |
| 378695.85  | 3746773.10 | 0.08315c   | (12120424) | 378680.53 |
| 3746992.74 | 0.11859    | (12042324) |            |           |
| 378853.81  | 3747315.72 | 0.07664c   | (16112124) | 378645.51 |
| 3747261.85 | 0.12388    | (16040824) |            |           |
| 378640.80  | 3747343.96 | 0.11358    | (13112024) | 378507.67 |
| 3747524.45 | 0.06510    | (14121824) |            |           |
| 378555.93  | 3747501.76 | 0.06624    | (13050624) | 378866.77 |
| 3747547.93 | 0.04674    | (13112024) |            |           |
| 378884.04  | 3747599.56 | 0.03701    | (12011624) | 378918.04 |
| 3747592.76 | 0.03876    | (13112024) |            |           |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378917.34  | 3747541.50 | 0.04879    | (13112024) | 378840.80 |
| 3747574.80 | 0.04042    | (12011624) |            |           |
| 378988.66  | 3747636.53 | 0.03331    | (13112024) | 378848.12 |
| 3747632.69 | 0.03195    | (13050624) |            |           |
| 378840.97  | 3747611.24 | 0.03399    | (12011624) | 378928.50 |
| 3747713.24 | 0.02456    | (16011524) |            |           |
| 378927.11  | 3747552.13 | 0.04689    | (13112024) | 378917.20 |
| 3747527.25 | 0.05130    | (13112024) |            |           |
| 379036.52  | 3747187.14 | 0.05572    | (12050124) | 379090.75 |
| 3747248.44 | 0.05058    | (12050124) |            |           |
| 379099.40  | 3747185.96 | 0.04916    | (12050124) | 379204.32 |
| 3747183.21 | 0.03975    | (12050124) |            |           |
| 379162.67  | 3747246.48 | 0.04491    | (12050124) | 379279.38 |
| 3747178.89 | 0.03395    | (12050124) |            |           |
| 379301.78  | 3747271.63 | 0.03590    | (12050124) | 379235.37 |
| 3747244.91 | 0.03973    | (12050124) |            |           |

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 \*\*\* 13:47:02

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

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 , PAREA1 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 379422.01   | 3747246.05  | 0.02894    | (12050124) | 379458.45   |
| 3747191.27  | 0.02475     | (16070524) |            |             |
| 379434.32   | 3747101.49  | 0.02626c   | (12082324) | 379478.24   |
| 3747231.81  | 0.02575     | (12050124) |            |             |
| 379500.69   | 3747247.50  | 0.02542    | (12050124) | 379596.74   |
| 3747228.67  | 0.02092     | (12050124) |            |             |
| 379559.58   | 3747187.16  | 0.02222    | (16070524) | 379599.40   |
| 3747182.10  | 0.02134     | (16070524) |            |             |
| 379527.96   | 3747129.48  | 0.02313    | (16070524) | 379645.25   |
| 3747183.54  | 0.02031     | (16070524) |            |             |
| 379678.07   | 3747268.74  | 0.01981    | (12050124) | 379687.49   |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3747141.55 | 0.01933    | (16070524) |                      |
| 379728.03  | 3747160.37 | 0.01863    | (16070524) 379841.94 |
| 3747187.89 | 0.01663    | (16070524) |                      |
| 379834.70  | 3747231.09 | 0.01643    | (16070524) 379835.94 |
| 3747433.82 | 0.01839    | (12050124) |                      |
| 379790.14  | 3747436.93 | 0.01924    | (12050124) 379790.73 |
| 3747506.45 | 0.01825    | (12050124) |                      |
| 379838.60  | 3747509.86 | 0.01759    | (12050124) 379845.57 |
| 3747562.92 | 0.01632    | (12050124) |                      |
| 379789.40  | 3747527.20 | 0.01778    | (12050124) 377635.37 |
| 3745747.00 | 0.01606    | (16112424) |                      |
| 378209.49  | 3746740.07 | 1.02780    | (16121924) 378248.32 |
| 3746798.00 | 1.27272c   | (12120424) |                      |
| 378254.25  | 3746886.86 | 1.64989c   | (16112124)           |

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                                  \*\*\*      13:47:02

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

\*\*\* THE SUMMARY OF HIGHEST 24-HR

RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

|                               |         |         |  | DATE       |          |
|-------------------------------|---------|---------|--|------------|----------|
|                               |         |         |  | NETWORK    |          |
| GROUP ID                      |         |         |  | (YYMMDDHH) | RECEPTOR |
| (XR, YR, ZELEV, ZHILL, ZFLAG) | AVERAGE | CONC    |  |            |          |
|                               | OF TYPE | GRID-ID |  |            |          |
| -----                         |         |         |  |            |          |
| -----                         |         |         |  |            |          |

ALL      HIGH    1ST HIGH VALUE IS      1.66837c ON 16112124: AT (    378249.36,  
 3746847.89,    21.00,    21.00,    2.00) DC

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

▲ \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
 Sequoia Commerce Center\1579 \*\*\*      09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                                  \*\*\*      13:47:02



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

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1223 Calm Hours Identified  
  
A Total of 251 Missing Hours Identified ( 0.57 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 152 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 152 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 12.0.0

\*\* Lakes Environmental Software Inc.

\*\* Date: 9/11/2024

\*\* File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Ops CO\Ops  
CO.ADI

\*\*

\*\*\*\*\*

\*\*

\*\*

\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

```

TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579
MODELOPT DFAULT CONC
AVERTIME 1 8
URBANOPT 9818605 County_of_Los_Angeles
POLLUTID CO
FLAGPOLE 2.00
RUNORNOT RUN
ERRORFIL "Ops CO.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      378174.020   3747147.200      20.920
LOCATION VOL2      VOLUME      378172.352   3747015.221      21.000
LOCATION VOL3      VOLUME      378172.352   3746883.007      21.000
LOCATION VOL4      VOLUME      378169.974   3746842.107      21.000
** Source Parameters **
SRCPARAM VOL1      0.035137029    5.000    30.637    1.400
SRCPARAM VOL2      0.035137029    5.000    30.637    1.400
SRCPARAM VOL3      0.035137029    5.000    30.637    1.400
SRCPARAM VOL4      0.035137029    5.000    30.637    1.400
URBANSRC ALL
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Ops CO.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
SURFFILE KHRH_V9_ADJU\KHRH_v9.SFC
PROFFILE KHRH_V9_ADJU\KHRH_v9.PFL
SURFDATA 3167 2012
UAIRDATA 3190 2012

```

PROFBASE 19.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

RECTABLE 8 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "OPS CO.AD\01H1GALL.PLT" 31

PLOTFILE 8 ALL 1ST "OPS CO.AD\08H1GALL.PLT" 32

SUMMFILE "Ops CO.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)

A Total of 2 Warning Message(s)

A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

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

ME W186 70 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50

ME W187 70 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

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\*\*\* MODELOPTs: RegDFault CONC ELEV FLGPOL 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 4 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
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: CO

\*\*Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

\*\*This Run Includes: 4 Source(s); 1 Source Group(s); and 185  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4 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 Highest Short Term Values by Receptor (RECTABLE  
Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
Keyword)  
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing  
Hours  
b for Both Calm  
and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Ops CO.err

\*\*File for Summary of Results: Ops CO.sum

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

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

| INIT.    | URBAN  | NUMBER   | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    |
|----------|--------|----------|-------------|----------|-----------|----------|----------|----------|
|          |        | EMISSION | RATE        | AIRCRAFT |           |          |          |          |
| SOURCE   |        | PART.    | (GRAMS/SEC) | X        | Y         | ELEV.    | HEIGHT   | SY       |
| SZ       | SOURCE | SCALAR   | VARY        |          |           |          |          |          |
| ID       |        | CATS.    |             | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) |
| (METERS) |        | BY       |             |          |           |          |          |          |
| VOL1     |        | 0        | 0.35137E-01 | 378174.0 | 3747147.2 | 20.9     | 5.00     | 30.64    |
| 1.40     | YES    |          | NO          |          |           |          |          |          |

|      |     |   |             |          |           |      |      |       |
|------|-----|---|-------------|----------|-----------|------|------|-------|
| VOL2 |     | 0 | 0.35137E-01 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   | NO          |          |           |      |      |       |
| VOL3 |     | 0 | 0.35137E-01 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   | NO          |          |           |      |      |       |
| VOL4 |     | 0 | 0.35137E-01 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   | NO          |          |           |      |      |       |

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

|             |            |
|-------------|------------|
| SRCGROUP ID | SOURCE IDs |
| -----       | -----      |

ALL VOL1 , VOL2 , VOL3 , VOL4  
 \*\*\* AERMOD - VERSION 23132 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

\*\*\*

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

9818605. VOL1 , VOL2 , VOL3 , VOL4  
 \*\*\* AERMOD - VERSION 23132 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

(METERS)

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3, 17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9, 19.3, 19.3, | 0.0); |       |       |             |
| ( 378136.3, 3746743.3, | 21.0, | 21.0, | 2.0); | ( 378268.7, |
| 3746735.6, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378256.3, 3746996.6, | 21.0, | 21.0, | 2.0); | ( 378249.4, |
| 3746847.9, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378309.8, 3747165.4, | 20.0, | 20.0, | 2.0); | ( 378513.4, |
| 3746995.0, 20.0, 20.0, | 2.0); |       |       |             |
| ( 378126.9, 3747243.5, | 20.8, | 20.8, | 2.0); | ( 378154.0, |
| 3747245.6, 20.5, 20.5, | 2.0); |       |       |             |
| ( 378197.0, 3747247.6, | 20.1, | 20.1, | 2.0); | ( 378227.9, |
| 3747244.7, 19.9, 19.9, | 2.0); |       |       |             |
| ( 378273.2, 3747244.4, | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |

```

( 378291.2, 3747266.9, 19.6, 19.6, 0.0); ( 378360.6,
3747202.7, 20.0, 20.0, 0.0);
( 378227.9, 3747366.4, 19.4, 19.4, 0.0); ( 378207.8,
3747536.3, 19.0, 19.0, 0.0);
( 378313.3, 3747203.2, 20.0, 20.0, 0.0); ( 378919.3,
3747184.9, 17.3, 17.3, 0.0);
( 378921.5, 3747245.3, 17.0, 17.0, 0.0); ( 378937.6,
3747441.6, 17.0, 17.0, 0.0);
( 378865.9, 3747523.7, 17.0, 17.0, 0.0); ( 378731.9,
3747454.6, 17.0, 17.0, 0.0);
( 378976.9, 3747269.0, 17.0, 17.0, 0.0); ( 378875.3,
3747301.2, 17.0, 17.0, 0.0);
( 378922.6, 3747029.0, 17.7, 17.7, 0.0); ( 378056.9,
3747325.1, 20.9, 20.9, 0.0);
( 379168.5, 3747645.6, 17.0, 17.0, 0.0); ( 377796.5,
3747904.9, 19.3, 19.3, 0.0);
( 378129.1, 3747249.4, 20.8, 20.8, 0.0); ( 378159.5,
3747247.1, 20.5, 20.5, 0.0);
( 378200.2, 3747247.3, 20.0, 20.0, 0.0); ( 378226.0,
3747247.7, 19.9, 19.9, 0.0);
( 378283.7, 3747245.2, 19.8, 19.8, 0.0); ( 378052.8,
3747257.4, 21.0, 21.0, 0.0);
( 378116.4, 3747276.8, 20.6, 20.6, 0.0); ( 378117.3,
3747316.0, 20.2, 20.2, 0.0);
( 378117.1, 3747344.8, 20.1, 20.1, 0.0); ( 378120.6,
3747381.7, 20.0, 20.0, 0.0);
( 378121.8, 3747450.2, 19.7, 19.7, 0.0); ( 378121.8,
3747514.2, 19.1, 19.1, 0.0);
( 378118.2, 3747553.5, 19.1, 19.1, 0.0); ( 377945.4,
3747435.0, 20.8, 20.8, 0.0);
( 378083.8, 3747686.0, 19.0, 19.0, 0.0); ( 378124.6,
3747684.6, 19.0, 19.0, 0.0);
( 378084.3, 3747702.2, 19.0, 19.0, 0.0); ( 378124.6,
3747702.2, 18.9, 18.9, 0.0);
( 377995.0, 3747255.0, 21.0, 21.0, 0.0); ( 377953.5,
3747255.4, 21.0, 21.0, 0.0);
( 377915.9, 3747255.3, 21.0, 21.0, 0.0); ( 377825.5,
3747276.2, 21.0, 21.0, 0.0);
( 377934.7, 3747187.4, 21.0, 21.0, 0.0); ( 377998.0,
3746860.9, 21.0, 21.0, 0.0);
( 377996.5, 3746783.4, 21.0, 21.0, 0.0); ( 378132.8,
3746732.6, 21.0, 21.0, 0.0);
^ *** AERMOD - VERSION 23132 *** *** C:\Users\adadabhoy\Desktop\AERMOD\15795
Sequoia Commerce Center\1579 *** 09/11/24
*** AERMET - VERSION 16216 *** ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*



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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378131.1, 3746451.9, | 21.0, | 21.0, | 0.0); | ( 378131.1, |
| 3746579.3, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378131.1, 3746322.3, | 21.0, | 21.0, | 0.0); | ( 378138.1, |
| 3746150.8, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378001.7, 3746015.9, | 21.0, | 21.0, | 0.0); | ( 378290.1, |
| 3746060.7, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378102.5, 3745973.7, | 21.0, | 21.0, | 0.0); | ( 378136.7, |
| 3745937.8, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378064.1, 3745931.0, | 21.0, | 21.0, | 0.0); | ( 378057.5, |
| 3745971.0, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378020.8, 3745925.6, | 21.0, | 21.0, | 0.0); | ( 378098.0, |
| 3745892.3, 21.0,       | 21.0, | 0.0); |       |             |
| ( 377945.7, 3745896.2, | 21.0, | 21.0, | 0.0); | ( 377911.0, |
| 3745974.3, 21.0,       | 21.0, | 0.0); |       |             |
| ( 377899.2, 3745974.3, | 21.0, | 21.0, | 0.0); | ( 377886.2, |
| 3745890.5, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378905.6, 3746007.8, | 21.0, | 21.0, | 0.0); | ( 378849.3, |
| 3745966.1, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378850.6, 3745926.3, | 21.0, | 21.0, | 0.0); | ( 378904.8, |
| 3745929.4, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378905.1, 3745968.2, | 21.0, | 21.0, | 0.0); | ( 378792.6, |
| 3745935.4, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378835.4, 3745898.0, | 21.0, | 21.0, | 0.0); | ( 378898.1, |
| 3745978.1, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378905.6, 3746139.8, | 21.0, | 21.0, | 0.0); | ( 378989.8, |
| 3746015.3, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378927.5, 3745927.9, | 21.0, | 21.0, | 0.0); | ( 378785.6, |
| 3745990.2, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378968.5, 3745925.0, | 21.0, | 21.0, | 0.0); | ( 378822.6, |
| 3745867.9, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378827.3, 3746174.7, | 21.0, | 21.0, | 0.0); | ( 378905.4, |
| 3746200.4, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378801.6, 3746268.5, | 21.0, | 21.0, | 0.0); | ( 378917.5, |
| 3746278.5, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378990.9, 3746201.1, | 21.0, | 21.0, | 0.0); | ( 378819.3, |
| 3746393.8, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378915.1, 3746385.1, | 20.6, | 20.6, | 0.0); | ( 378802.6, |
| 3746328.0, 21.0,       | 21.0, | 0.0); |       |             |
| ( 378914.1, 3746458.5, | 20.2, | 20.2, | 0.0); | ( 378821.2, |
| 3746549.1, 20.2,       | 20.2, | 0.0); |       |             |
| ( 378821.6, 3746480.8, | 20.9, | 20.9, | 0.0); | ( 378912.3, |
| 3746735.4, 18.8,       | 18.8, | 0.0); |       |             |
| ( 378824.3, 3746713.0, | 19.9, | 19.9, | 0.0); | ( 378923.0, |
| 3746779.8, 18.6,       | 18.6, | 0.0); |       |             |
| ( 378695.8, 3746773.1, | 20.0, | 20.0, | 0.0); | ( 378680.5, |
| 3746992.7, 19.0,       | 19.0, | 0.0); |       |             |

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378853.8, 3747315.7, | 17.0, | 17.0, | 0.0); | ( 378645.5, |
| 3747261.8, 18.0, 18.0, | 0.0); |       |       |             |
| ( 378640.8, 3747344.0, | 17.7, | 17.7, | 0.0); | ( 378507.7, |
| 3747524.4, 17.8, 17.8, | 0.0); |       |       |             |
| ( 378555.9, 3747501.8, | 17.5, | 17.5, | 0.0); | ( 378866.8, |
| 3747547.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378884.0, 3747599.6, | 17.0, | 17.0, | 0.0); | ( 378918.0, |
| 3747592.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378917.3, 3747541.5, | 17.0, | 17.0, | 0.0); | ( 378840.8, |
| 3747574.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378988.7, 3747636.5, | 17.0, | 17.0, | 0.0); | ( 378848.1, |
| 3747632.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378841.0, 3747611.2, | 17.0, | 17.0, | 0.0); | ( 378928.5, |
| 3747713.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378927.1, 3747552.1, | 17.0, | 17.0, | 0.0); | ( 378917.2, |
| 3747527.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379036.5, 3747187.1, | 17.0, | 17.0, | 0.0); | ( 379090.8, |
| 3747248.4, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379099.4, 3747186.0, | 17.0, | 17.0, | 0.0); | ( 379204.3, |
| 3747183.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379162.7, 3747246.5, | 17.0, | 17.0, | 0.0); | ( 379279.4, |
| 3747178.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379301.8, 3747271.6, | 17.0, | 17.0, | 0.0); | ( 379235.4, |
| 3747244.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379422.0, 3747246.0, | 17.0, | 17.0, | 0.0); | ( 379458.5, |
| 3747191.3, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379434.3, 3747101.5, | 17.0, | 17.0, | 0.0); | ( 379478.2, |
| 3747231.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379500.7, 3747247.5, | 17.0, | 17.0, | 0.0); | ( 379596.7, |
| 3747228.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379559.6, 3747187.2, | 17.0, | 17.0, | 0.0); | ( 379599.4, |
| 3747182.1, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379528.0, 3747129.5, | 17.0, | 17.0, | 0.0); | ( 379645.2, |
| 3747183.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379678.1, 3747268.7, | 17.0, | 17.0, | 0.0); | ( 379687.5, |
| 3747141.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379728.0, 3747160.4, | 17.0, | 17.0, | 0.0); | ( 379841.9, |
| 3747187.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379834.7, 3747231.1, | 17.0, | 17.0, | 0.0); | ( 379835.9, |
| 3747433.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379790.1, 3747436.9, | 17.0, | 17.0, | 0.0); | ( 379790.7, |
| 3747506.4, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379838.6, 3747509.9, | 17.0, | 17.0, | 0.0); | ( 379845.6, |
| 3747562.9, 17.0, 17.0, | 0.0); |       |       |             |

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                                  \*\*\*      13:51:24

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

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

```

```

( 379789.4, 3747527.2, 17.0, 17.0, 0.0);      ( 377635.4,
3745747.0, 21.0, 21.0, 0.0);
( 378209.5, 3746740.1, 21.0, 21.0, 2.0);      ( 378248.3,
3746798.0, 21.0, 21.0, 2.0);
( 378254.2, 3746886.9, 21.0, 21.0, 2.0);

```

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***      ***      13:51:24

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

\*\*\* METEOROLOGICAL DAYS SELECTED FOR

PROCESSING \*\*\*

(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

```

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Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
***      ***
***      13:51:24

```

\*\*\* MODELOPTs:      RegDFAULT    CONC    ELEV    FLGPOL    URBAN    ADJ   U\*

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

Surface file: KHRH\_V9\_ADJU\KHRH\_v9.SFC  
Met Version: 16216  
Profile file: KHRH\_V9\_ADJU\KHRH\_v9.PFL

Profile format: FREE

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2012

| YR     | MO | DY   | JDY | HR   | H0     | U*     | W*     | DT/DZ  | ZICNV | ZIMCH | M-O  | LEN  | Z0   | BOWEN |
|--------|----|------|-----|------|--------|--------|--------|--------|-------|-------|------|------|------|-------|
| ALBEDO |    | REF  | WS  | WD   | HT     | REF    | TA     | HT     |       |       |      |      |      |       |
| -      | -  | -    | -   | -    | -      | -      | -      | -      | -     | -     | -    | -    | -    | -     |
| -      | -  | -    | -   | -    | -      | -      | -      | -      | -     | -     | -    | -    | -    | -     |
| 12     | 01 | 01   | 1   | 01   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -999 | 99.0 | 0.24 | 2.79  |
| 1.00   |    | 0.00 |     | 0.   | 7.9    | 283.8  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 02   | -2.1   | 0.068  | -9.000 | -9.000 | -999. | 43.   |      | 13.3 | 0.24 | 2.79  |
| 1.00   |    | 0.53 |     | 305. | 7.9    | 283.1  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 03   | -9.0   | 0.127  | -9.000 | -9.000 | -999. | 109.  |      | 20.8 | 0.24 | 2.79  |
| 1.00   |    | 1.18 |     | 323. | 7.9    | 282.5  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 04   | -2.2   | 0.068  | -9.000 | -9.000 | -999. | 43.   |      | 13.3 | 0.24 | 2.79  |
| 1.00   |    | 0.53 |     | 296. | 7.9    | 282.0  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 05   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -999 | 99.0 | 0.24 | 2.79  |
| 1.00   |    | 0.00 |     | 0.   | 7.9    | 281.4  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 06   | -6.0   | 0.103  | -9.000 | -9.000 | -999. | 80.   |      | 16.7 | 0.24 | 2.79  |
| 1.00   |    | 0.97 |     | 321. | 7.9    | 281.4  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 07   | -4.3   | 0.088  | -9.000 | -9.000 | -999. | 63.   |      | 14.4 | 0.24 | 2.79  |
| 1.00   |    | 0.82 |     | 313. | 7.9    | 280.4  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 08   | 15.7   | -9.000 | -9.000 | -9.000 | -999. | -999. | -999 | 99.0 | 0.24 | 2.79  |
| 0.55   |    | 0.00 |     | 0.   | 7.9    | 281.4  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 09   | 35.7   | 0.115  | 0.353  | 0.013  | 45.   | 93.   |      | -3.8 | 0.24 | 2.79  |
| 0.32   |    | 0.63 |     | 179. | 7.9    | 285.4  |        | 2.0    |       |       |      |      |      |       |
| 12     | 01 | 01   | 1   | 10   | 109.0  | 0.141  | 0.727  | 0.009  | 128.  | 127.  |      | -2.3 | 0.24 | 2.79  |
| 0.24   |    | 0.70 |     | 170. | 7.9    | 289.2  |        | 2.0    |       |       |      |      |      |       |

|      |      |      |   |    |       |       |        |        |       |      |        |      |      |
|------|------|------|---|----|-------|-------|--------|--------|-------|------|--------|------|------|
| 12   | 01   | 01   | 1 | 11 | 164.4 | 0.149 | 1.186  | 0.005  | 370.  | 138. | -1.8   | 0.24 | 2.79 |
| 0.21 | 0.70 | 222. |   |    | 7.9   | 297.0 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 12 | 191.7 | 0.163 | 1.525  | 0.005  | 672.  | 158. | -2.1   | 0.24 | 2.79 |
| 0.20 | 0.79 | 12.  |   |    | 7.9   | 299.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 13 | 191.3 | 0.170 | 1.819  | 0.005  | 1144. | 168. | -2.3   | 0.24 | 2.79 |
| 0.20 | 0.84 | 260. |   |    | 7.9   | 300.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 14 | 161.6 | 0.344 | 1.852  | 0.005  | 1428. | 483. | -22.7  | 0.24 | 2.79 |
| 0.21 | 2.49 | 260. |   |    | 7.9   | 298.8 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 15 | 105.0 | 0.367 | 1.638  | 0.005  | 1521. | 534. | -42.8  | 0.24 | 2.79 |
| 0.24 | 2.84 | 292. |   |    | 7.9   | 293.8 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 16 | 29.7  | 0.383 | 1.079  | 0.005  | 1539. | 570. | -172.5 | 0.24 | 2.79 |
| 0.33 | 3.22 | 276. |   |    | 7.9   | 290.4 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 17 | -24.8 | 0.287 | -9.000 | -9.000 | -999. | 374. | 90.3   | 0.24 | 2.79 |
| 0.59 | 2.52 | 284. |   |    | 7.9   | 289.2 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 18 | -26.7 | 0.269 | -9.000 | -9.000 | -999. | 336. | 79.8   | 0.24 | 2.79 |
| 1.00 | 2.38 | 285. |   |    | 7.9   | 287.5 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 19 | -10.2 | 0.137 | -9.000 | -9.000 | -999. | 133. | 22.7   | 0.24 | 2.79 |
| 1.00 | 1.26 | 287. |   |    | 7.9   | 287.5 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 20 | -6.2  | 0.106 | -9.000 | -9.000 | -999. | 83.  | 17.2   | 0.24 | 2.79 |
| 1.00 | 0.99 | 303. |   |    | 7.9   | 287.0 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 21 | -7.6  | 0.117 | -9.000 | -9.000 | -999. | 96.  | 19.1   | 0.24 | 2.79 |
| 1.00 | 1.09 | 326. |   |    | 7.9   | 286.4 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 22 | -6.8  | 0.110 | -9.000 | -9.000 | -999. | 88.  | 18.0   | 0.24 | 2.79 |
| 1.00 | 1.03 | 297. |   |    | 7.9   | 285.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 23 | -19.9 | 0.200 | -9.000 | -9.000 | -999. | 214. | 43.9   | 0.24 | 2.79 |
| 1.00 | 1.79 | 290. |   |    | 7.9   | 285.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 24 | -19.6 | 0.196 | -9.000 | -9.000 | -999. | 209. | 42.3   | 0.24 | 2.79 |
| 1.00 | 1.76 | 282. |   |    | 7.9   | 285.9 | 2.0    |        |       |      |        |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 7.9    | 1 | -999. | -99.00 | 283.8   | 99.0   | -99.00 | -99.00 |

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

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF CO

IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M)         | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|---------------------|------------|------------|-------------|
| Y-COORD (M) | CONC                | (YYMMDDHH) |            |             |
| 378289.83   | 3747311.07          | 5.68836    | (13112216) | 378292.28   |
| 3747493.83  | 1.68597 (15042107)  |            |            |             |
| 378289.93   | 3747408.68          | 2.92769    | (15042107) | 378291.63   |
| 3747328.59  | 5.08072 (13112216)  |            |            |             |
| 378291.42   | 3747417.90          | 2.77214    | (15042107) | 378589.39   |
| 3747341.97  | 2.06534 (14041418)  |            |            |             |
| 378519.42   | 3747305.13          | 2.67726    | (12020617) | 378519.01   |
| 3747395.88  | 2.36199 (16090407)  |            |            |             |
| 378517.98   | 3747292.17          | 2.71334    | (12020617) | 378347.39   |
| 3747259.66  | 5.74097 (12020617)  |            |            |             |
| 378291.17   | 3747266.91          | 7.19614    | (13112216) | 378360.59   |
| 3747202.71  | 5.94976 (12020617)  |            |            |             |
| 378227.93   | 3747366.41          | 2.89264    | (13112216) | 378207.82   |
| 3747536.30  | 1.38901 (15051418)  |            |            |             |
| 378313.28   | 3747203.17          | 8.20395    | (12020617) | 378919.28   |
| 3747184.91  | 1.03384 (12042318)  |            |            |             |
| 378921.54   | 3747245.33          | 1.01208    | (12042318) | 378937.65   |
| 3747441.57  | 0.80814 (14041418)  |            |            |             |
| 378865.93   | 3747523.67          | 1.03431    | (14041418) | 378731.88   |
| 3747454.64  | 1.38282 (14041418)  |            |            |             |
| 378976.87   | 3747269.00          | 0.91874    | (12042318) | 378875.27   |
| 3747301.16  | 0.98053 (12042318)  |            |            |             |
| 378922.56   | 3747028.97          | 1.05841    | (13020217) | 378056.86   |
| 3747325.10  | 4.48280 (16010916)  |            |            |             |
| 379168.53   | 3747645.58          | 0.55466    | (14041418) | 377796.45   |
| 3747904.89  | 0.74470 (16010916)  |            |            |             |
| 378136.31   | 3746743.35          | 18.36324   | (13041207) | 378268.72   |
| 3746735.61  | 7.74218 (13092607)  |            |            |             |
| 378256.33   | 3746996.56          | 15.24861   | (12020617) | 378249.36   |
| 3746847.89  | 22.14285 (16021717) |            |            |             |
| 378309.76   | 3747165.37          | 8.42151    | (12020617) | 378513.41   |
| 3746995.01  | 2.84674 (14041207)  |            |            |             |
| 378126.89   | 3747243.53          | 10.01198   | (16010916) | 378154.05   |
| 3747245.58  | 9.45309 (15050607)  |            |            |             |
| 378196.98   | 3747247.62          | 9.95080    | (13112216) | 378227.94   |
| 3747244.70  | 11.25892 (13112216) |            |            |             |
| 378273.20   | 3747244.41          | 9.03514    | (13112216) | 378052.71   |
| 3747256.38  | 6.04961 (14113016)  |            |            |             |
| 378289.83   | 3747311.07          | 5.68836    | (13112216) | 378292.28   |
| 3747493.83  | 1.68597 (15042107)  |            |            |             |
| 378289.93   | 3747408.68          | 2.92769    | (15042107) | 378291.63   |
| 3747328.59  | 5.08072 (13112216)  |            |            |             |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378291.42  | 3747417.90 | 2.77214    | (15042107) | 378589.39 |
| 3747341.97 | 2.06534    | (14041418) |            |           |
| 378519.42  | 3747305.13 | 2.67726    | (12020617) | 378519.01 |
| 3747395.88 | 2.36199    | (16090407) |            |           |
| 378517.98  | 3747292.17 | 2.71334    | (12020617) | 378347.39 |
| 3747259.66 | 5.74097    | (12020617) |            |           |
| 378291.17  | 3747266.91 | 7.19614    | (13112216) | 378360.59 |
| 3747202.71 | 5.94976    | (12020617) |            |           |
| 378227.93  | 3747366.41 | 2.89264    | (13112216) | 378207.82 |
| 3747536.30 | 1.38901    | (15051418) |            |           |
| 378313.28  | 3747203.17 | 8.20395    | (12020617) | 378919.28 |
| 3747184.91 | 1.03384    | (12042318) |            |           |
| 378921.54  | 3747245.33 | 1.01208    | (12042318) | 378937.65 |
| 3747441.57 | 0.80814    | (14041418) |            |           |
| 378865.93  | 3747523.67 | 1.03431    | (14041418) | 378731.88 |
| 3747454.64 | 1.38282    | (14041418) |            |           |
| 378976.87  | 3747269.00 | 0.91874    | (12042318) | 378875.27 |
| 3747301.16 | 0.98053    | (12042318) |            |           |
| 378922.56  | 3747028.97 | 1.05841    | (13020217) | 378056.86 |
| 3747325.10 | 4.48280    | (16010916) |            |           |
| 379168.53  | 3747645.58 | 0.55466    | (14041418) | 377796.45 |
| 3747904.89 | 0.74470    | (16010916) |            |           |
| 378129.14  | 3747249.41 | 9.12913    | (15050607) | 378159.47 |
| 3747247.15 | 8.70123    | (15050607) |            |           |
| 378200.25  | 3747247.32 | 10.06687   | (13112216) | 378226.05 |
| 3747247.67 | 10.68016   | (13112216) |            |           |
| 378283.74  | 3747245.23 | 8.30382    | (12020617) | 378052.80 |
| 3747257.43 | 5.78449    | (14113016) |            |           |
| 378116.42  | 3747276.78 | 7.04033    | (16010916) | 378117.29 |
| 3747315.99 | 5.05386    | (16010916) |            |           |
| 378117.11  | 3747344.75 | 3.97758    | (16010916) | 378120.60 |
| 3747381.70 | 2.93869    | (15051418) |            |           |
| 378121.82  | 3747450.20 | 2.24759    | (15051418) | 378121.82 |
| 3747514.16 | 1.79595    | (15051418) |            |           |
| 378118.16  | 3747553.55 | 1.57404    | (15051418) | 377945.41 |
| 3747434.99 | 2.29552    | (12112816) |            |           |
| 378083.80  | 3747685.98 | 1.02652    | (15051418) | 378124.58 |
| 3747684.58 | 1.10077    | (15051418) |            |           |

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

|             |             | ** CONC OF CO |            | IN MICROGRAMS/M**3 |             |
|-------------|-------------|---------------|------------|--------------------|-------------|
|             |             | **            |            |                    |             |
| X-COORD (M) | Y-COORD (M) | CONC          | (YYMMDDHH) |                    | X-COORD (M) |
| Y-COORD (M) | CONC        | (YYMMDDHH)    |            |                    |             |
| - - - - -   |             |               |            |                    |             |
| 378084.32   | 3747702.19  | 0.99197       | (15051418) |                    | 378124.58   |
| 3747702.19  | 1.05298     | (15051418)    |            |                    |             |
| 377995.02   | 3747255.00  | 4.65402       | (14113016) |                    | 377953.54   |
| 3747255.45  | 3.89821     | (14113016)    |            |                    |             |
| 377915.91   | 3747255.30  | 3.38543       | (14113016) |                    | 377825.47   |
| 3747276.19  | 2.47572     | (14113016)    |            |                    |             |
| 377934.72   | 3747187.43  | 3.83406       | (14113016) |                    | 377997.97   |
| 3746860.90  | 6.68574     | (13041207)    |            |                    |             |
| 377996.55   | 3746783.41  | 8.18504       | (13041207) |                    | 378132.80   |
| 3746732.61  | 15.43472    | (13041207)    |            |                    |             |
| 378131.09   | 3746451.89  | 1.54750       | (13041607) |                    | 378131.09   |
| 3746579.33  | 2.92343     | (13041607)    |            |                    |             |
| 378131.15   | 3746322.30  | 0.99095       | (13101307) |                    | 378138.09   |
| 3746150.82  | 0.65303     | (13101307)    |            |                    |             |
| 378001.74   | 3746015.86  | 0.48699       | (13101307) |                    | 378290.15   |
| 3746060.70  | 0.59931     | (13092607)    |            |                    |             |
| 378102.45   | 3745973.71  | 0.46283       | (13101307) |                    | 378136.71   |
| 3745937.76  | 0.43677     | (13101307)    |            |                    |             |
| 378064.09   | 3745931.01  | 0.42820       | (13101307) |                    | 378057.50   |
| 3745971.00  | 0.45727     | (13101307)    |            |                    |             |
| 378020.77   | 3745925.59  | 0.42058       | (13101307) |                    | 378097.98   |
| 3745892.30  | 0.40421     | (13101307)    |            |                    |             |
| 377945.73   | 3745896.16  | 0.39292       | (13101307) |                    | 377910.99   |
| 3745974.33  | 0.43836     | (13101307)    |            |                    |             |
| 377899.16   | 3745974.33  | 0.43603       | (13101307) |                    | 377886.24   |
| 3745890.54  | 0.38111     | (13101307)    |            |                    |             |
| 378905.58   | 3746007.82  | 0.32945       | (13101307) |                    | 378849.35   |
| 3745966.07  | 0.32941     | (13101307)    |            |                    |             |
| 378850.56   | 3745926.26  | 0.31452       | (13101307) |                    | 378904.85   |
| 3745929.40  | 0.30271     | (13101307)    |            |                    |             |
| 378905.09   | 3745968.24  | 0.31563       | (13101307) |                    | 378792.65   |
| 3745935.43  | 0.33198     | (13101307)    |            |                    |             |
| 378835.36   | 3745898.03  | 0.30807       | (13101307) |                    | 378898.10   |
| 3745978.14  | 0.32091     | (13101307)    |            |                    |             |
| 378905.58   | 3746139.80  | 0.38156       | (13101307) |                    | 378989.79   |
| 3746015.30  | 0.30842     | (13101307)    |            |                    |             |
| 378927.53   | 3745927.95  | 0.29693       | (13101307) |                    | 378785.65   |
| 3745990.20  | 0.35671     | (13101307)    |            |                    |             |
| 378968.55   | 3745925.05  | 0.28663       | (13101307) |                    | 378822.57   |



|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3745867.87 | 0.30043    | (13101307) |                      |
| 378827.29  | 3746174.68 | 0.43180    | (13101307) 378905.44 |
| 3746200.40 | 0.40857    | (13101307) |                      |
| 378801.57  | 3746268.53 | 0.50147    | (13101307) 378917.46 |
| 3746278.55 | 0.43950    | (13101307) |                      |
| 378990.94  | 3746201.07 | 0.37164    | (13101307) 378819.28 |
| 3746393.77 | 0.58615    | (16041518) |                      |
| 378915.13  | 3746385.08 | 0.54254    | (16041518) 378802.58 |
| 3746327.97 | 0.54131    | (13101307) |                      |
| 378914.07  | 3746458.46 | 0.64291    | (16021717) 378821.19 |
| 3746549.14 | 0.99246    | (16021717) |                      |
| 378821.59  | 3746480.77 | 0.69168    | (16041518) 378912.35 |
| 3746735.38 | 1.03599    | (16021717) |                      |
| 378824.34  | 3746712.99 | 1.31810    | (16021717) 378922.96 |
| 3746779.78 | 0.91607    | (16021717) |                      |
| 378695.85  | 3746773.10 | 1.74016    | (16021717) 378680.53 |
| 3746992.74 | 1.82349    | (13020217) |                      |
| 378853.81  | 3747315.72 | 0.96412    | (12042318) 378645.51 |
| 3747261.85 | 1.73977    | (14041418) |                      |
| 378640.80  | 3747343.96 | 1.82280    | (14041418) 378507.67 |
| 3747524.45 | 1.73245    | (13112216) |                      |
| 378555.93  | 3747501.76 | 1.74182    | (16090407) 378866.77 |
| 3747547.93 | 1.01689    | (14041418) |                      |
| 378884.04  | 3747599.56 | 0.93817    | (14041418) 378918.04 |
| 3747592.76 | 0.90749    | (14041418) |                      |
| 378917.34  | 3747541.50 | 0.93133    | (14041418) 378840.80 |
| 3747574.80 | 1.01626    | (14041418) |                      |
| 378988.66  | 3747636.53 | 0.79391    | (14041418) 378848.12 |
| 3747632.69 | 0.91504    | (16090407) |                      |
| 378840.97  | 3747611.24 | 0.94740    | (14041418) 378928.50 |
| 3747713.24 | 0.75438    | (16090407) |                      |
| 378927.11  | 3747552.13 | 0.91221    | (14041418) 378917.20 |
| 3747527.25 | 0.93119    | (14041418) |                      |
| 379036.52  | 3747187.14 | 0.85217    | (14041207) 379090.75 |
| 3747248.44 | 0.78049    | (12042318) |                      |
| 379099.40  | 3747185.96 | 0.77508    | (14041207) 379204.32 |
| 3747183.21 | 0.65410    | (14041207) |                      |
| 379162.67  | 3747246.48 | 0.69713    | (14041207) 379279.38 |
| 3747178.89 | 0.57263    | (14041207) |                      |
| 379301.78  | 3747271.63 | 0.58122    | (14041207) 379235.37 |
| 3747244.91 | 0.63683    | (14041207) |                      |

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PAGE 12

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

| ** CONC OF CO |             | IN MICROGRAMS/M**3 |             |
|---------------|-------------|--------------------|-------------|
| X-COORD (M)   | Y-COORD (M) | CONC               | (YYMMDDHH)  |
| Y-COORD (M)   | CONC        | (YYMMDDHH)         | X-COORD (M) |
| 379422.01     | 3747246.05  | 0.49293            | (14041207)  |
| 3747191.27    | 0.42768     | (14041207)         | 379458.45   |
| 379434.32     | 3747101.49  | 0.45597            | (13020217)  |
| 3747231.81    | 0.44567     | (14041207)         | 379478.24   |
| 379500.69     | 3747247.50  | 0.43966            | (14041207)  |
| 3747228.67    | 0.36641     | (14041207)         | 379596.74   |
| 379559.58     | 3747187.16  | 0.35883            | (13020217)  |
| 3747182.10    | 0.34621     | (13020217)         | 379599.40   |
| 379527.96     | 3747129.48  | 0.39778            | (13020217)  |
| 3747183.54    | 0.32892     | (13020217)         | 379645.25   |
| 379678.07     | 3747268.74  | 0.34773            | (14041207)  |
| 3747141.55    | 0.32715     | (13020217)         | 379687.49   |
| 379728.03     | 3747160.37  | 0.30844            | (13020217)  |
| 3747187.89    | 0.26712     | (13020217)         | 379841.94   |
| 379834.70     | 3747231.09  | 0.25471            | (13020217)  |
| 3747433.82    | 0.31461     | (14041207)         | 379835.94   |
| 379790.14     | 3747436.93  | 0.32591            | (14041207)  |
| 3747506.45    | 0.33283     | (12042318)         | 379790.73   |
| 379838.60     | 3747509.86  | 0.31693            | (12042318)  |
| 3747562.92    | 0.31282     | (12042318)         | 379845.57   |
| 379789.40     | 3747527.20  | 0.33254            | (12042318)  |
| 3745747.00    | 0.28017     | (13101307)         | 377635.37   |
| 378209.49     | 3746740.07  | 14.50702           | (13092607)  |
| 3746798.00    | 15.94387    | (16021717)         | 378248.32   |
| 378254.25     | 3746886.86  | 20.65101           | (13020217)  |

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 \*\*\* AERMET - VERSION 16216 \*\*\*  
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PAGE 13  
 \*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

|             |             | ** CONC OF CO | IN MICROGRAMS/M**3 |             |
|-------------|-------------|---------------|--------------------|-------------|
| X-COORD (M) | Y-COORD (M) | CONC          | (YYMMDDHH)         | X-COORD (M) |
| Y-COORD (M) | CONC        | (YYMMDDHH)    |                    |             |
| 378289.83   | 3747311.07  | 3.04867c      | (13123108)         | 378292.28   |
| 3747493.83  | 1.35403c    | (13123108)    |                    |             |
| 378289.93   | 3747408.68  | 1.88834c      | (13123108)         | 378291.63   |
| 3747328.59  | 2.75724c    | (13123108)    |                    |             |
| 378291.42   | 3747417.90  | 1.81182c      | (13123108)         | 378589.39   |
| 3747341.97  | 1.14303c    | (13123108)    |                    |             |
| 378519.42   | 3747305.13  | 1.48328c      | (13123108)         | 378519.01   |
| 3747395.88  | 1.21042c    | (13123108)    |                    |             |
| 378517.98   | 3747292.17  | 1.53198c      | (13123108)         | 378347.39   |
| 3747259.66  | 3.13683c    | (13123108)    |                    |             |
| 378291.17   | 3747266.91  | 3.92609c      | (13123108)         | 378360.59   |
| 3747202.71  | 3.65360c    | (13123108)    |                    |             |
| 378227.93   | 3747366.41  | 2.53902c      | (13123108)         | 378207.82   |
| 3747536.30  | 1.23009c    | (13123108)    |                    |             |
| 378313.28   | 3747203.17  | 4.88948c      | (13123108)         | 378919.28   |
| 3747184.91  | 0.63319c    | (13123108)    |                    |             |
| 378921.54   | 3747245.33  | 0.60785c      | (13123108)         | 378937.65   |
| 3747441.57  | 0.50399c    | (13123108)    |                    |             |
| 378865.93   | 3747523.67  | 0.51850c      | (13123108)         | 378731.88   |
| 3747454.64  | 0.70659c    | (13123108)    |                    |             |
| 378976.87   | 3747269.00  | 0.53925c      | (13123108)         | 378875.27   |
| 3747301.16  | 0.63837c    | (13123108)    |                    |             |
| 378922.56   | 3747028.97  | 0.66420c      | (13123108)         | 378056.86   |
| 3747325.10  | 2.82513c    | (13123108)    |                    |             |
| 379168.53   | 3747645.58  | 0.30980c      | (13123108)         | 377796.45   |
| 3747904.89  | 0.42870c    | (13123108)    |                    |             |
| 378136.31   | 3746743.35  | 8.89912c      | (13123108)         | 378268.72   |
| 3746735.61  | 5.92529c    | (13123108)    |                    |             |
| 378256.33   | 3746996.56  | 13.42550c     | (13123108)         | 378249.36   |
| 3746847.89  | 16.89922c   | (13123108)    |                    |             |
| 378309.76   | 3747165.37  | 5.86838c      | (13123108)         | 378513.41   |
| 3746995.01  | 2.32327c    | (13123108)    |                    |             |
| 378126.89   | 3747243.53  | 6.81459c      | (13123108)         | 378154.05   |
| 3747245.58  | 7.37256c    | (13123108)    |                    |             |
| 378196.98   | 3747247.62  | 7.12104c      | (13123108)         | 378227.94   |
| 3747244.70  | 6.49053c    | (13123108)    |                    |             |
| 378273.20   | 3747244.41  | 5.00883c      | (13123108)         | 378052.71   |

|            |                     |                               |
|------------|---------------------|-------------------------------|
| 3747256.38 | 4.11634c (13123108) |                               |
| 378289.83  | 3747311.07          | 3.04867c (13123108) 378292.28 |
| 3747493.83 | 1.35403c (13123108) |                               |
| 378289.93  | 3747408.68          | 1.88834c (13123108) 378291.63 |
| 3747328.59 | 2.75724c (13123108) |                               |
| 378291.42  | 3747417.90          | 1.81182c (13123108) 378589.39 |
| 3747341.97 | 1.14303c (13123108) |                               |
| 378519.42  | 3747305.13          | 1.48328c (13123108) 378519.01 |
| 3747395.88 | 1.21042c (13123108) |                               |
| 378517.98  | 3747292.17          | 1.53198c (13123108) 378347.39 |
| 3747259.66 | 3.13683c (13123108) |                               |
| 378291.17  | 3747266.91          | 3.92609c (13123108) 378360.59 |
| 3747202.71 | 3.65360c (13123108) |                               |
| 378227.93  | 3747366.41          | 2.53902c (13123108) 378207.82 |
| 3747536.30 | 1.23009c (13123108) |                               |
| 378313.28  | 3747203.17          | 4.88948c (13123108) 378919.28 |
| 3747184.91 | 0.63319c (13123108) |                               |
| 378921.54  | 3747245.33          | 0.60785c (13123108) 378937.65 |
| 3747441.57 | 0.50399c (13123108) |                               |
| 378865.93  | 3747523.67          | 0.51850c (13123108) 378731.88 |
| 3747454.64 | 0.70659c (13123108) |                               |
| 378976.87  | 3747269.00          | 0.53925c (13123108) 378875.27 |
| 3747301.16 | 0.63837c (13123108) |                               |
| 378922.56  | 3747028.97          | 0.66420c (13123108) 378056.86 |
| 3747325.10 | 2.82513c (13123108) |                               |
| 379168.53  | 3747645.58          | 0.30980c (13123108) 377796.45 |
| 3747904.89 | 0.42870c (13123108) |                               |
| 378129.14  | 3747249.41          | 6.45049c (13123108) 378159.47 |
| 3747247.15 | 7.30472c (13123108) |                               |
| 378200.25  | 3747247.32          | 7.07373c (13123108) 378226.05 |
| 3747247.67 | 6.33987c (13123108) |                               |
| 378283.74  | 3747245.23          | 4.67818c (13123108) 378052.80 |
| 3747257.43 | 4.09599c (13123108) |                               |
| 378116.42  | 3747276.78          | 4.70355c (13123108) 378117.29 |
| 3747315.99 | 3.47497c (13123108) |                               |
| 378117.11  | 3747344.75          | 2.87732c (13123108) 378120.60 |
| 3747381.70 | 2.34070c (13123108) |                               |
| 378121.82  | 3747450.20          | 1.69433c (13123108) 378121.82 |
| 3747514.16 | 1.32156c (13123108) |                               |
| 378118.16  | 3747553.55          | 1.15400c (13123108) 377945.41 |
| 3747434.99 | 1.40529c (13123108) |                               |
| 378083.80  | 3747685.98          | 0.78205c (13123108) 378124.58 |
| 3747684.58 | 0.79363c (13123108) |                               |

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\*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

|             |                     | ** CONC OF CO       | IN MICROGRAMS/M**3 |
|-------------|---------------------|---------------------|--------------------|
| X-COORD (M) | Y-COORD (M)         | CONC (YYMMDDHH)     | X-COORD (M)        |
| Y-COORD (M) | CONC (YYMMDDHH)     |                     |                    |
| - - - - -   |                     |                     |                    |
| 378084.32   | 3747702.19          | 0.75145c (13123108) | 378124.58          |
| 3747702.19  | 0.75928c (13123108) |                     |                    |
| 377995.02   | 3747255.00          | 3.13777c (13123108) | 377953.54          |
| 3747255.45  | 2.61798c (13123108) |                     |                    |
| 377915.91   | 3747255.30          | 2.25681c (13123108) | 377825.47          |
| 3747276.19  | 1.57562c (13123108) |                     |                    |
| 377934.72   | 3747187.43          | 2.93745c (13123108) | 377997.97          |
| 3746860.90  | 5.85430c (13123108) |                     |                    |
| 377996.55   | 3746783.41          | 4.69925c (13123108) | 378132.80          |
| 3746732.61  | 7.73717c (13123108) |                     |                    |
| 378131.09   | 3746451.89          | 1.40264c (13123108) | 378131.09          |
| 3746579.33  | 2.43477c (13123108) |                     |                    |
| 378131.15   | 3746322.30          | 0.92997c (13123108) | 378138.09          |
| 3746150.82  | 0.61283c (13123108) |                     |                    |
| 378001.74   | 3746015.86          | 0.45700c (13123108) | 378290.15          |
| 3746060.70  | 0.50339c (13123108) |                     |                    |
| 378102.45   | 3745973.71          | 0.43432c (13123108) | 378136.71          |
| 3745937.76  | 0.40987c (13123108) |                     |                    |
| 378064.09   | 3745931.01          | 0.40183c (13123108) | 378057.50          |
| 3745971.00  | 0.42911c (13123108) |                     |                    |
| 378020.77   | 3745925.59          | 0.39468c (13123108) | 378097.98          |
| 3745892.30  | 0.37932c (13123108) |                     |                    |
| 377945.73   | 3745896.16          | 0.36872c (13123108) | 377910.99          |
| 3745974.33  | 0.41136c (13123108) |                     |                    |
| 377899.16   | 3745974.33          | 0.40918c (13123108) | 377886.24          |
| 3745890.54  | 0.35764c (13123108) |                     |                    |
| 378905.58   | 3746007.82          | 0.30916c (13123108) | 378849.35          |
| 3745966.07  | 0.30912c (13123108) |                     |                    |
| 378850.56   | 3745926.26          | 0.29514c (13123108) | 378904.85          |
| 3745929.40  | 0.28407c (13123108) |                     |                    |
| 378905.09   | 3745968.24          | 0.29619c (13123108) | 378792.65          |
| 3745935.43  | 0.31153c (13123108) |                     |                    |
| 378835.36   | 3745898.03          | 0.28910c (13123108) | 378898.10          |
| 3745978.14  | 0.30114c (13123108) |                     |                    |

|            |                     |                     |           |
|------------|---------------------|---------------------|-----------|
| 378905.58  | 3746139.80          | 0.35806c (13123108) | 378989.79 |
| 3746015.30 | 0.28942c (13123108) |                     |           |
| 378927.53  | 3745927.95          | 0.27864c (13123108) | 378785.65 |
| 3745990.20 | 0.33474c (13123108) |                     |           |
| 378968.55  | 3745925.05          | 0.26897c (13123108) | 378822.57 |
| 3745867.87 | 0.28192c (13123108) |                     |           |
| 378827.29  | 3746174.68          | 0.40520c (13123108) | 378905.44 |
| 3746200.40 | 0.38341c (13123108) |                     |           |
| 378801.57  | 3746268.53          | 0.47059c (13123108) | 378917.46 |
| 3746278.55 | 0.41244c (13123108) |                     |           |
| 378990.94  | 3746201.07          | 0.34875c (13123108) | 378819.28 |
| 3746393.77 | 0.53963c (13123108) |                     |           |
| 378915.13  | 3746385.08          | 0.46441c (13123108) | 378802.58 |
| 3746327.97 | 0.50798c (13123108) |                     |           |
| 378914.07  | 3746458.46          | 0.50205c (13123108) | 378821.19 |
| 3746549.14 | 0.64754c (13123108) |                     |           |
| 378821.59  | 3746480.77          | 0.59805c (13123108) | 378912.35 |
| 3746735.38 | 0.63480c (13123108) |                     |           |
| 378824.34  | 3746712.99          | 0.75403c (13123108) | 378922.96 |
| 3746779.78 | 0.63616c (13123108) |                     |           |
| 378695.85  | 3746773.10          | 1.09165c (13123108) | 378680.53 |
| 3746992.74 | 1.25049c (13123108) |                     |           |
| 378853.81  | 3747315.72          | 0.65747c (13123108) | 378645.51 |
| 3747261.85 | 1.12434c (13123108) |                     |           |
| 378640.80  | 3747343.96          | 1.00651c (13123108) | 378507.67 |
| 3747524.45 | 0.92039c (13123108) |                     |           |
| 378555.93  | 3747501.76          | 0.89258c (13123108) | 378866.77 |
| 3747547.93 | 0.50374c (13123108) |                     |           |
| 378884.04  | 3747599.56          | 0.46342c (13123108) | 378918.04 |
| 3747592.76 | 0.44571c (13123108) |                     |           |
| 378917.34  | 3747541.50          | 0.47104c (13123108) | 378840.80 |
| 3747574.80 | 0.50688c (13123108) |                     |           |
| 378988.66  | 3747636.53          | 0.38846c (13123108) | 378848.12 |
| 3747632.69 | 0.46781c (13123108) |                     |           |
| 378840.97  | 3747611.24          | 0.48480c (13123108) | 378928.50 |
| 3747713.24 | 0.38606c (13123108) |                     |           |
| 378927.11  | 3747552.13          | 0.45934c (13123108) | 378917.20 |
| 3747527.25 | 0.47817c (13123108) |                     |           |
| 379036.52  | 3747187.14          | 0.50505c (13123108) | 379090.75 |
| 3747248.44 | 0.44741c (13123108) |                     |           |
| 379099.40  | 3747185.96          | 0.45273c (13123108) | 379204.32 |
| 3747183.21 | 0.38253c (13123108) |                     |           |
| 379162.67  | 3747246.48          | 0.39895c (13123108) | 379279.38 |
| 3747178.89 | 0.34243c (13123108) |                     |           |
| 379301.78  | 3747271.63          | 0.32247c (13123108) | 379235.37 |
| 3747244.91 | 0.35771c (13123108) |                     |           |

^ \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
 Sequoia Commerce Center\1579 \*\*\* 09/11/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:51:24

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

VALUES FOR SOURCE GROUP: ALL \*\*\* THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 379422.01   | 3747246.05  | 0.27733c   | (13123108) | 379458.45   |
| 3747191.27  | 0.26835c    | (13123108) |            |             |
| 379434.32   | 3747101.49  | 0.28099c   | (13123108) | 379478.24   |
| 3747231.81  | 0.25951c    | (13123108) |            |             |
| 379500.69   | 3747247.50  | 0.25160c   | (13123108) | 379596.74   |
| 3747228.67  | 0.22593c    | (13123108) |            |             |
| 379559.58   | 3747187.16  | 0.23763c   | (13123108) | 379599.40   |
| 3747182.10  | 0.22716c    | (13123108) |            |             |
| 379527.96   | 3747129.48  | 0.24897c   | (13123108) | 379645.25   |
| 3747183.54  | 0.21572c    | (13123108) |            |             |
| 379678.07   | 3747268.74  | 0.20500c   | (13123108) | 379687.49   |
| 3747141.55  | 0.20717c    | (13123108) |            |             |
| 379728.03   | 3747160.37  | 0.19794c   | (13123108) | 379841.94   |
| 3747187.89  | 0.17573c    | (13123108) |            |             |
| 379834.70   | 3747231.09  | 0.17593c   | (13123108) | 379835.94   |
| 3747433.82  | 0.16865c    | (13123108) |            |             |
| 379790.14   | 3747436.93  | 0.17592c   | (13123108) | 379790.73   |
| 3747506.45  | 0.17238c    | (13123108) |            |             |
| 379838.60   | 3747509.86  | 0.16481c   | (13123108) | 379845.57   |
| 3747562.92  | 0.16121c    | (13123108) |            |             |
| 379789.40   | 3747527.20  | 0.17150c   | (13123108) | 377635.37   |
| 3745747.00  | 0.26292c    | (13123108) |            |             |
| 378209.49   | 3746740.07  | 8.39643c   | (13123108) | 378248.32   |
| 3746798.00  | 12.05100c   | (13123108) |            |             |
| 378254.25   | 3746886.86  | 16.14020c  | (13123108) |             |

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 Sequoia Commerce Center\1579 \*\*\* 09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 13:51:24

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

\*\*\* THE SUMMARY OF HIGHEST 1-HR

RESULTS \*\*\*

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

\*\*

| GROUP ID<br>(XR, YR, ZELEV, ZHILL, ZFLAG) | AVERAGE CONC<br>OF TYPE | NETWORK<br>GRID-ID | DATE<br>(YYMMDDHH) | RECEPTOR  |
|-------------------------------------------|-------------------------|--------------------|--------------------|-----------|
| - - - - -                                 | - - - - -               | - - - - -          | - - - - -          | - - - - - |
| - - - - -                                 | - - - - -               | - - - - -          | - - - - -          | - - - - - |

ALL HIGH 1ST HIGH VALUE IS 22.14285 ON 16021717: AT ( 378249.36,  
3746847.89, 21.00, 21.00, 2.00) DC

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

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\*\*\* 13:51:24

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

\*\*\* THE SUMMARY OF HIGHEST 8-HR

RESULTS \*\*\*

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

\*\*

| GROUP ID<br>(XR, YR, ZELEV, ZHILL, ZFLAG) | AVERAGE CONC<br>OF TYPE | NETWORK<br>GRID-ID | DATE<br>(YYMMDDHH) | RECEPTOR  |
|-------------------------------------------|-------------------------|--------------------|--------------------|-----------|
| - - - - -                                 | - - - - -               | - - - - -          | - - - - -          | - - - - - |
| - - - - -                                 | - - - - -               | - - - - -          | - - - - -          | - - - - - |

ALL HIGH 1ST HIGH VALUE IS 16.89922c ON 13123108: AT ( 378249.36,  
3746847.89, 21.00, 21.00, 2.00) DC



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

▲ \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 13:51:24

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

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1223 Calm Hours Identified  
  
A Total of 251 Missing Hours Identified ( 0.57 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 70 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 70 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 12.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/11/2024  
\*\* File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Ops  
NOx\Ops NOx.ADI

```

**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579
  MODELOPT DFAULT CONC
  AVERTIME 1
  URBANOPT 9818605 County_of_Los_Angeles
  POLLUTID NOX
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "Ops NOx.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION VOL1      VOLUME      378174.020  3747147.200      20.920
  LOCATION VOL2      VOLUME      378172.352  3747015.221      21.000
  LOCATION VOL3      VOLUME      378172.352  3746883.007      21.000
  LOCATION VOL4      VOLUME      378169.974  3746842.107      21.000
** Source Parameters **
  SRCPARAM VOL1      0.0149622483    5.000    30.637    1.400
  SRCPARAM VOL2      0.0149622483    5.000    30.637    1.400
  SRCPARAM VOL3      0.0149622483    5.000    30.637    1.400
  SRCPARAM VOL4      0.0149622483    5.000    30.637    1.400
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "Ops NOx.rou"
RE FINISHED
**

```

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE KHRH\_V9\_ADJU\KHRH\_v9.SFC

PROFFILE KHRH\_V9\_ADJU\KHRH\_v9.PFL

SURFDATA 3167 2012

UAIRDATA 3190 2012

PROFBASE 19.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 1 ALL 1ST "OPS NOX.AD\01H1GALL.PLT" 31

SUMMFILE "Ops NOx.sum"

OU FINISHED

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

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

|            |                            |
|------------|----------------------------|
| A Total of | 0 Fatal Error Message(s)   |
| A Total of | 2 Warning Message(s)       |
| A Total of | 0 Informational Message(s) |

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

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

ME W186 70 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50

ME W187 70 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 13:54:23

PAGE 1  
\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL 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 4 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
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: NOX

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 4 Source(s); 1 Source Group(s); and 185  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4 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 Highest Short Term Values by Receptor (RECTABLE  
Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing  
Hours  
b for Both Calm  
and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Ops NOx.err

\*\*File for Summary of Results: Ops NOx.sum

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 13:54:23

PAGE 2  
\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

| INIT.  | URBAN | NUMBER   | EMISSION    | RATE     |   | BASE  | RELEASE | INIT. |
|--------|-------|----------|-------------|----------|---|-------|---------|-------|
| INIT.  | URBAN | EMISSION | RATE        | AIRCRAFT |   |       |         |       |
| SOURCE |       | PART.    | (GRAMS/SEC) | X        | Y | ELEV. | HEIGHT  | SY    |

| SZ       | SOURCE | SCALAR | VARY |  | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |
|----------|--------|--------|------|--|----------|----------|----------|----------|----------|
| ID       |        | CATS.  | BY   |  |          |          |          |          |          |
| (METERS) |        |        |      |  |          |          |          |          |          |

|      |     |   |             |          |           |      |      |       |  |
|------|-----|---|-------------|----------|-----------|------|------|-------|--|
| VOL1 |     | 0 | 0.14962E-01 | 378174.0 | 3747147.2 | 20.9 | 5.00 | 30.64 |  |
| 1.40 | YES |   | NO          |          |           |      |      |       |  |
| VOL2 |     | 0 | 0.14962E-01 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |  |
| 1.40 | YES |   | NO          |          |           |      |      |       |  |
| VOL3 |     | 0 | 0.14962E-01 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |  |
| 1.40 | YES |   | NO          |          |           |      |      |       |  |
| VOL4 |     | 0 | 0.14962E-01 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |  |
| 1.40 | YES |   | NO          |          |           |      |      |       |  |

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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

|                                  |                                             |        |        |        |  |
|----------------------------------|---------------------------------------------|--------|--------|--------|--|
| ALL                              | VOL1                                        | , VOL2 | , VOL3 | , VOL4 |  |
| *** AERMOD - VERSION 23132 ***   | *** C:\Users\adadabhoy\Desktop\AERMOD\15795 |        |        |        |  |
| Sequoia Commerce Center\1579 *** | 09/11/24                                    |        |        |        |  |
| *** AERMET - VERSION 16216 ***   | ***                                         |        |        |        |  |
| ***                              | 13:54:23                                    |        |        |        |  |

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

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

\*\*\*

URBAN ID URBAN POP

SOURCE IDs

|                                  |                                             |        |        |        |  |
|----------------------------------|---------------------------------------------|--------|--------|--------|--|
| 9818605.                         | VOL1                                        | , VOL2 | , VOL3 | , VOL4 |  |
| *** AERMOD - VERSION 23132 ***   | *** C:\Users\adadabhoy\Desktop\AERMOD\15795 |        |        |        |  |
| Sequoia Commerce Center\1579 *** | 09/11/24                                    |        |        |        |  |

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:54:23

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

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3, 17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9, 19.3, 19.3, | 0.0); |       |       |             |
| ( 378136.3, 3746743.3, | 21.0, | 21.0, | 2.0); | ( 378268.7, |
| 3746735.6, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378256.3, 3746996.6, | 21.0, | 21.0, | 2.0); | ( 378249.4, |
| 3746847.9, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378309.8, 3747165.4, | 20.0, | 20.0, | 2.0); | ( 378513.4, |
| 3746995.0, 20.0, 20.0, | 2.0); |       |       |             |
| ( 378126.9, 3747243.5, | 20.8, | 20.8, | 2.0); | ( 378154.0, |
| 3747245.6, 20.5, 20.5, | 2.0); |       |       |             |
| ( 378197.0, 3747247.6, | 20.1, | 20.1, | 2.0); | ( 378227.9, |
| 3747244.7, 19.9, 19.9, | 2.0); |       |       |             |
| ( 378273.2, 3747244.4, | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4, 21.0, 21.0, | 2.0); |       |       |             |
| ( 378289.8, 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8, 18.9, 18.9, | 0.0); |       |       |             |

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378289.9, 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0, 17.7, 17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3, 17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9, 19.3, 19.3, | 0.0); |       |       |             |
| ( 378129.1, 3747249.4, | 20.8, | 20.8, | 0.0); | ( 378159.5, |
| 3747247.1, 20.5, 20.5, | 0.0); |       |       |             |
| ( 378200.2, 3747247.3, | 20.0, | 20.0, | 0.0); | ( 378226.0, |
| 3747247.7, 19.9, 19.9, | 0.0); |       |       |             |
| ( 378283.7, 3747245.2, | 19.8, | 19.8, | 0.0); | ( 378052.8, |
| 3747257.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378116.4, 3747276.8, | 20.6, | 20.6, | 0.0); | ( 378117.3, |
| 3747316.0, 20.2, 20.2, | 0.0); |       |       |             |
| ( 378117.1, 3747344.8, | 20.1, | 20.1, | 0.0); | ( 378120.6, |
| 3747381.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378121.8, 3747450.2, | 19.7, | 19.7, | 0.0); | ( 378121.8, |
| 3747514.2, 19.1, 19.1, | 0.0); |       |       |             |
| ( 378118.2, 3747553.5, | 19.1, | 19.1, | 0.0); | ( 377945.4, |
| 3747435.0, 20.8, 20.8, | 0.0); |       |       |             |
| ( 378083.8, 3747686.0, | 19.0, | 19.0, | 0.0); | ( 378124.6, |
| 3747684.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378084.3, 3747702.2, | 19.0, | 19.0, | 0.0); | ( 378124.6, |
| 3747702.2, 18.9, 18.9, | 0.0); |       |       |             |
| ( 377995.0, 3747255.0, | 21.0, | 21.0, | 0.0); | ( 377953.5, |
| 3747255.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377915.9, 3747255.3, | 21.0, | 21.0, | 0.0); | ( 377825.5, |
| 3747276.2, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377934.7, 3747187.4, | 21.0, | 21.0, | 0.0); | ( 377998.0, |
| 3746860.9, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377996.5, 3746783.4, | 21.0, | 21.0, | 0.0); | ( 378132.8, |
| 3746732.6, 21.0, 21.0, | 0.0); |       |       |             |



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 Sequoia Commerce Center\1579 \*\*\*      09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
                          \*\*\*      13:54:23

PAGE 6

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

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378131.1, 3746451.9, | 21.0, | 21.0, | 0.0); | ( 378131.1, |
| 3746579.3,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378131.1, 3746322.3, | 21.0, | 21.0, | 0.0); | ( 378138.1, |
| 3746150.8,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378001.7, 3746015.9, | 21.0, | 21.0, | 0.0); | ( 378290.1, |
| 3746060.7,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378102.5, 3745973.7, | 21.0, | 21.0, | 0.0); | ( 378136.7, |
| 3745937.8,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378064.1, 3745931.0, | 21.0, | 21.0, | 0.0); | ( 378057.5, |
| 3745971.0,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378020.8, 3745925.6, | 21.0, | 21.0, | 0.0); | ( 378098.0, |
| 3745892.3,      21.0,  | 21.0, | 0.0); |       |             |
| ( 377945.7, 3745896.2, | 21.0, | 21.0, | 0.0); | ( 377911.0, |
| 3745974.3,      21.0,  | 21.0, | 0.0); |       |             |
| ( 377899.2, 3745974.3, | 21.0, | 21.0, | 0.0); | ( 377886.2, |
| 3745890.5,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378905.6, 3746007.8, | 21.0, | 21.0, | 0.0); | ( 378849.3, |
| 3745966.1,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378850.6, 3745926.3, | 21.0, | 21.0, | 0.0); | ( 378904.8, |
| 3745929.4,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378905.1, 3745968.2, | 21.0, | 21.0, | 0.0); | ( 378792.6, |
| 3745935.4,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378835.4, 3745898.0, | 21.0, | 21.0, | 0.0); | ( 378898.1, |
| 3745978.1,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378905.6, 3746139.8, | 21.0, | 21.0, | 0.0); | ( 378989.8, |
| 3746015.3,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378927.5, 3745927.9, | 21.0, | 21.0, | 0.0); | ( 378785.6, |
| 3745990.2,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378968.5, 3745925.0, | 21.0, | 21.0, | 0.0); | ( 378822.6, |
| 3745867.9,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378827.3, 3746174.7, | 21.0, | 21.0, | 0.0); | ( 378905.4, |
| 3746200.4,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378801.6, 3746268.5, | 21.0, | 21.0, | 0.0); | ( 378917.5, |
| 3746278.5,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378990.9, 3746201.1, | 21.0, | 21.0, | 0.0); | ( 378819.3, |
| 3746393.8,      21.0,  | 21.0, | 0.0); |       |             |
| ( 378915.1, 3746385.1, | 20.6, | 20.6, | 0.0); | ( 378802.6, |
| 3746328.0,      21.0,  | 21.0, | 0.0); |       |             |

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378914.1, 3746458.5, | 20.2, | 20.2, | 0.0); | ( 378821.2, |
| 3746549.1, 20.2, 20.2, | 0.0); |       |       |             |
| ( 378821.6, 3746480.8, | 20.9, | 20.9, | 0.0); | ( 378912.3, |
| 3746735.4, 18.8, 18.8, | 0.0); |       |       |             |
| ( 378824.3, 3746713.0, | 19.9, | 19.9, | 0.0); | ( 378923.0, |
| 3746779.8, 18.6, 18.6, | 0.0); |       |       |             |
| ( 378695.8, 3746773.1, | 20.0, | 20.0, | 0.0); | ( 378680.5, |
| 3746992.7, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378853.8, 3747315.7, | 17.0, | 17.0, | 0.0); | ( 378645.5, |
| 3747261.8, 18.0, 18.0, | 0.0); |       |       |             |
| ( 378640.8, 3747344.0, | 17.7, | 17.7, | 0.0); | ( 378507.7, |
| 3747524.4, 17.8, 17.8, | 0.0); |       |       |             |
| ( 378555.9, 3747501.8, | 17.5, | 17.5, | 0.0); | ( 378866.8, |
| 3747547.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378884.0, 3747599.6, | 17.0, | 17.0, | 0.0); | ( 378918.0, |
| 3747592.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378917.3, 3747541.5, | 17.0, | 17.0, | 0.0); | ( 378840.8, |
| 3747574.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378988.7, 3747636.5, | 17.0, | 17.0, | 0.0); | ( 378848.1, |
| 3747632.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378841.0, 3747611.2, | 17.0, | 17.0, | 0.0); | ( 378928.5, |
| 3747713.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378927.1, 3747552.1, | 17.0, | 17.0, | 0.0); | ( 378917.2, |
| 3747527.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379036.5, 3747187.1, | 17.0, | 17.0, | 0.0); | ( 379090.8, |
| 3747248.4, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379099.4, 3747186.0, | 17.0, | 17.0, | 0.0); | ( 379204.3, |
| 3747183.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379162.7, 3747246.5, | 17.0, | 17.0, | 0.0); | ( 379279.4, |
| 3747178.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379301.8, 3747271.6, | 17.0, | 17.0, | 0.0); | ( 379235.4, |
| 3747244.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379422.0, 3747246.0, | 17.0, | 17.0, | 0.0); | ( 379458.5, |
| 3747191.3, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379434.3, 3747101.5, | 17.0, | 17.0, | 0.0); | ( 379478.2, |
| 3747231.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379500.7, 3747247.5, | 17.0, | 17.0, | 0.0); | ( 379596.7, |
| 3747228.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379559.6, 3747187.2, | 17.0, | 17.0, | 0.0); | ( 379599.4, |
| 3747182.1, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379528.0, 3747129.5, | 17.0, | 17.0, | 0.0); | ( 379645.2, |
| 3747183.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379678.1, 3747268.7, | 17.0, | 17.0, | 0.0); | ( 379687.5, |
| 3747141.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379728.0, 3747160.4, | 17.0, | 17.0, | 0.0); | ( 379841.9, |
| 3747187.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379834.7, 3747231.1, | 17.0, | 17.0, | 0.0); | ( 379835.9, |
| 3747433.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379790.1, 3747436.9, | 17.0, | 17.0, | 0.0); | ( 379790.7, |
| 3747506.4, 17.0, 17.0, | 0.0); |       |       |             |



CATEGORIES \*\*\*

1.54, 3.09, 5.14, 8.23,

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Sequoia Commerce Center\1579 ***      *** 09/11/24

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*** AERMET - VERSION 16216 ***
***
*** 13:54:23
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```
*** MODELOPTs:   RegDFault  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

DATA \*\*\*

Profile format: FREE

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2012

|        |     |    |     |    |     |    |    |       |       |       |     |     |    |       |
|--------|-----|----|-----|----|-----|----|----|-------|-------|-------|-----|-----|----|-------|
| YR     | MO  | DY | JDY | HR | H0  | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN |
| ALBEDO | REF | WS | WD  | HT | REF | TA | HT |       |       |       |     |     |    |       |

|      |    |      |   |      |        |        |        |        |       |       |          |      |      |
|------|----|------|---|------|--------|--------|--------|--------|-------|-------|----------|------|------|
| 12   | 01 | 01   | 1 | 01   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 1.00 |    | 0.00 |   | 0.   | 7.9    | 283.8  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 02   | -2.1   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |
| 1.00 |    | 0.53 |   | 305. | 7.9    | 283.1  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 03   | -9.0   | 0.127  | -9.000 | -9.000 | -999. | 109.  | 20.8     | 0.24 | 2.79 |
| 1.00 |    | 1.18 |   | 323. | 7.9    | 282.5  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 04   | -2.2   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |
| 1.00 |    | 0.53 |   | 296. | 7.9    | 282.0  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 05   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 1.00 |    | 0.00 |   | 0.   | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1 | 06   | -6.0   | 0.103  | -9.000 | -9.000 | -999. | 80.   | 16.7     | 0.24 | 2.79 |
| 1.00 |    | 0.97 |   | 321. | 7.9    | 281.4  | 2.0    |        |       |       |          |      |      |

|      |    |      |      |    |       |        |        |        |       |       |          |      |      |
|------|----|------|------|----|-------|--------|--------|--------|-------|-------|----------|------|------|
| 12   | 01 | 01   | 1    | 07 | -4.3  | 0.088  | -9.000 | -9.000 | -999. | 63.   | 14.4     | 0.24 | 2.79 |
| 1.00 |    | 0.82 | 313. |    | 7.9   | 280.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 08 | 15.7  | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
| 0.55 |    | 0.00 | 0.   |    | 7.9   | 281.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 09 | 35.7  | 0.115  | 0.353  | 0.013  | 45.   | 93.   | -3.8     | 0.24 | 2.79 |
| 0.32 |    | 0.63 | 179. |    | 7.9   | 285.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 10 | 109.0 | 0.141  | 0.727  | 0.009  | 128.  | 127.  | -2.3     | 0.24 | 2.79 |
| 0.24 |    | 0.70 | 170. |    | 7.9   | 289.2  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 11 | 164.4 | 0.149  | 1.186  | 0.005  | 370.  | 138.  | -1.8     | 0.24 | 2.79 |
| 0.21 |    | 0.70 | 222. |    | 7.9   | 297.0  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 12 | 191.7 | 0.163  | 1.525  | 0.005  | 672.  | 158.  | -2.1     | 0.24 | 2.79 |
| 0.20 |    | 0.79 | 12.  |    | 7.9   | 299.9  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 13 | 191.3 | 0.170  | 1.819  | 0.005  | 1144. | 168.  | -2.3     | 0.24 | 2.79 |
| 0.20 |    | 0.84 | 260. |    | 7.9   | 300.9  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 14 | 161.6 | 0.344  | 1.852  | 0.005  | 1428. | 483.  | -22.7    | 0.24 | 2.79 |
| 0.21 |    | 2.49 | 260. |    | 7.9   | 298.8  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 15 | 105.0 | 0.367  | 1.638  | 0.005  | 1521. | 534.  | -42.8    | 0.24 | 2.79 |
| 0.24 |    | 2.84 | 292. |    | 7.9   | 293.8  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 16 | 29.7  | 0.383  | 1.079  | 0.005  | 1539. | 570.  | -172.5   | 0.24 | 2.79 |
| 0.33 |    | 3.22 | 276. |    | 7.9   | 290.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 17 | -24.8 | 0.287  | -9.000 | -9.000 | -999. | 374.  | 90.3     | 0.24 | 2.79 |
| 0.59 |    | 2.52 | 284. |    | 7.9   | 289.2  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 18 | -26.7 | 0.269  | -9.000 | -9.000 | -999. | 336.  | 79.8     | 0.24 | 2.79 |
| 1.00 |    | 2.38 | 285. |    | 7.9   | 287.5  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 19 | -10.2 | 0.137  | -9.000 | -9.000 | -999. | 133.  | 22.7     | 0.24 | 2.79 |
| 1.00 |    | 1.26 | 287. |    | 7.9   | 287.5  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 20 | -6.2  | 0.106  | -9.000 | -9.000 | -999. | 83.   | 17.2     | 0.24 | 2.79 |
| 1.00 |    | 0.99 | 303. |    | 7.9   | 287.0  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 21 | -7.6  | 0.117  | -9.000 | -9.000 | -999. | 96.   | 19.1     | 0.24 | 2.79 |
| 1.00 |    | 1.09 | 326. |    | 7.9   | 286.4  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 22 | -6.8  | 0.110  | -9.000 | -9.000 | -999. | 88.   | 18.0     | 0.24 | 2.79 |
| 1.00 |    | 1.03 | 297. |    | 7.9   | 285.9  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 23 | -19.9 | 0.200  | -9.000 | -9.000 | -999. | 214.  | 43.9     | 0.24 | 2.79 |
| 1.00 |    | 1.79 | 290. |    | 7.9   | 285.9  | 2.0    |        |       |       |          |      |      |
| 12   | 01 | 01   | 1    | 24 | -19.6 | 0.196  | -9.000 | -9.000 | -999. | 209.  | 42.3     | 0.24 | 2.79 |
| 1.00 |    | 1.76 | 282. |    | 7.9   | 285.9  | 2.0    |        |       |       |          |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 7.9    | 1 | -999. | -99.00 | 283.8   | 99.0   | -99.00 | -99.00 |

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

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Sequoia Commerce Center\1579 *** 09/11/24
*** AERMET - VERSION 16216 *** ***
*** 13:54:23

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

| **          |                    | ** CONC OF NOX |            | IN MICROGRAMS/M**3 |           |
|-------------|--------------------|----------------|------------|--------------------|-----------|
| X-COORD (M) | Y-COORD (M)        | CONC           | (YYMMDDHH) | X-COORD (M)        |           |
| Y-COORD (M) | CONC               | (YYMMDDHH)     |            |                    |           |
| - - - - -   | - - - - -          | - - - - -      | - - - - -  | - - - - -          | - - - - - |
| 378289.83   | 3747311.07         | 2.42225        | (13112216) | 378292.28          |           |
| 3747493.83  | 0.71793 (15042107) |                |            |                    |           |
| 378289.93   | 3747408.68         | 1.24668        | (15042107) | 378291.63          |           |
| 3747328.59  | 2.16350 (13112216) |                |            |                    |           |
| 378291.42   | 3747417.90         | 1.18045        | (15042107) | 378589.39          |           |
| 3747341.97  | 0.87947 (14041418) |                |            |                    |           |
| 378519.42   | 3747305.13         | 1.14004        | (12020617) | 378519.01          |           |
| 3747395.88  | 1.00580 (16090407) |                |            |                    |           |
| 378517.98   | 3747292.17         | 1.15541        | (12020617) | 378347.39          |           |
| 3747259.66  | 2.44465 (12020617) |                |            |                    |           |
| 378291.17   | 3747266.91         | 3.06430        | (13112216) | 378360.59          |           |
| 3747202.71  | 2.53356 (12020617) |                |            |                    |           |
| 378227.93   | 3747366.41         | 1.23176        | (13112216) | 378207.82          |           |
| 3747536.30  | 0.59148 (15051418) |                |            |                    |           |
| 378313.28   | 3747203.17         | 3.49345        | (12020617) | 378919.28          |           |
| 3747184.91  | 0.44024 (12042318) |                |            |                    |           |
| 378921.54   | 3747245.33         | 0.43097        | (12042318) | 378937.65          |           |
| 3747441.57  | 0.34413 (14041418) |                |            |                    |           |
| 378865.93   | 3747523.67         | 0.44044        | (14041418) | 378731.88          |           |
| 3747454.64  | 0.58884 (14041418) |                |            |                    |           |
| 378976.87   | 3747269.00         | 0.39122        | (12042318) | 378875.27          |           |
| 3747301.16  | 0.41753 (12042318) |                |            |                    |           |
| 378922.56   | 3747028.97         | 0.45070        | (13020217) | 378056.86          |           |
| 3747325.10  | 1.90889 (16010916) |                |            |                    |           |
| 379168.53   | 3747645.58         | 0.23619        | (14041418) | 377796.45          |           |
| 3747904.89  | 0.31711 (16010916) |                |            |                    |           |
| 378136.31   | 3746743.35         | 7.81954        | (13041207) | 378268.72          |           |
| 3746735.61  | 3.29682 (13092607) |                |            |                    |           |
| 378256.33   | 3746996.56         | 6.49325        | (12020617) | 378249.36          |           |
| 3746847.89  | 9.42900 (16021717) |                |            |                    |           |
| 378309.76   | 3747165.37         | 3.58609        | (12020617) | 378513.41          |           |
| 3746995.01  | 1.21222 (14041207) |                |            |                    |           |
| 378126.89   | 3747243.53         | 4.26336        | (16010916) | 378154.05          |           |
| 3747245.58  | 4.02537 (15050607) |                |            |                    |           |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 378196.98  | 3747247.62 | 4.23730    | (13112216) | 378227.94 |
| 3747244.70 | 4.79434    | (13112216) |            |           |
| 378273.20  | 3747244.41 | 3.84739    | (13112216) | 378052.71 |
| 3747256.38 | 2.57608    | (14113016) |            |           |
| 378289.83  | 3747311.07 | 2.42225    | (13112216) | 378292.28 |
| 3747493.83 | 0.71793    | (15042107) |            |           |
| 378289.93  | 3747408.68 | 1.24668    | (15042107) | 378291.63 |
| 3747328.59 | 2.16350    | (13112216) |            |           |
| 378291.42  | 3747417.90 | 1.18045    | (15042107) | 378589.39 |
| 3747341.97 | 0.87947    | (14041418) |            |           |
| 378519.42  | 3747305.13 | 1.14004    | (12020617) | 378519.01 |
| 3747395.88 | 1.00580    | (16090407) |            |           |
| 378517.98  | 3747292.17 | 1.15541    | (12020617) | 378347.39 |
| 3747259.66 | 2.44465    | (12020617) |            |           |
| 378291.17  | 3747266.91 | 3.06430    | (13112216) | 378360.59 |
| 3747202.71 | 2.53356    | (12020617) |            |           |
| 378227.93  | 3747366.41 | 1.23176    | (13112216) | 378207.82 |
| 3747536.30 | 0.59148    | (15051418) |            |           |
| 378313.28  | 3747203.17 | 3.49345    | (12020617) | 378919.28 |
| 3747184.91 | 0.44024    | (12042318) |            |           |
| 378921.54  | 3747245.33 | 0.43097    | (12042318) | 378937.65 |
| 3747441.57 | 0.34413    | (14041418) |            |           |
| 378865.93  | 3747523.67 | 0.44044    | (14041418) | 378731.88 |
| 3747454.64 | 0.58884    | (14041418) |            |           |
| 378976.87  | 3747269.00 | 0.39122    | (12042318) | 378875.27 |
| 3747301.16 | 0.41753    | (12042318) |            |           |
| 378922.56  | 3747028.97 | 0.45070    | (13020217) | 378056.86 |
| 3747325.10 | 1.90889    | (16010916) |            |           |
| 379168.53  | 3747645.58 | 0.23619    | (14041418) | 377796.45 |
| 3747904.89 | 0.31711    | (16010916) |            |           |
| 378129.14  | 3747249.41 | 3.88742    | (15050607) | 378159.47 |
| 3747247.15 | 3.70521    | (15050607) |            |           |
| 378200.25  | 3747247.32 | 4.28673    | (13112216) | 378226.05 |
| 3747247.67 | 4.54789    | (13112216) |            |           |
| 378283.74  | 3747245.23 | 3.53598    | (12020617) | 378052.80 |
| 3747257.43 | 2.46319    | (14113016) |            |           |
| 378116.42  | 3747276.78 | 2.99795    | (16010916) | 378117.29 |
| 3747315.99 | 2.15206    | (16010916) |            |           |
| 378117.11  | 3747344.75 | 1.69375    | (16010916) | 378120.60 |
| 3747381.70 | 1.25137    | (15051418) |            |           |
| 378121.82  | 3747450.20 | 0.95708    | (15051418) | 378121.82 |
| 3747514.16 | 0.76476    | (15051418) |            |           |
| 378118.16  | 3747553.55 | 0.67027    | (15051418) | 377945.41 |
| 3747434.99 | 0.97749    | (12112816) |            |           |
| 378083.80  | 3747685.98 | 0.43712    | (15051418) | 378124.58 |
| 3747684.58 | 0.46874    | (15051418) |            |           |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
 Sequoia Commerce Center\1579 \*\*\* 09/11/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:54:23

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 378084.32   | 3747702.19  | 0.42240    | (15051418) | 378124.58   |
| 3747702.19  | 0.44839     | (15051418) |            |             |
| 377995.02   | 3747255.00  | 1.98180    | (14113016) | 377953.54   |
| 3747255.45  | 1.65996     | (14113016) |            |             |
| 377915.91   | 3747255.30  | 1.44160    | (14113016) | 377825.47   |
| 3747276.19  | 1.05422     | (14113016) |            |             |
| 377934.72   | 3747187.43  | 1.63264    | (14113016) | 377997.97   |
| 3746860.90  | 2.84696     | (13041207) |            |             |
| 377996.55   | 3746783.41  | 3.48540    | (13041207) | 378132.80   |
| 3746732.61  | 6.57250     | (13041207) |            |             |
| 378131.09   | 3746451.89  | 0.65896    | (13041607) | 378131.09   |
| 3746579.33  | 1.24487     | (13041607) |            |             |
| 378131.15   | 3746322.30  | 0.42197    | (13101307) | 378138.09   |
| 3746150.82  | 0.27808     | (13101307) |            |             |
| 378001.74   | 3746015.86  | 0.20737    | (13101307) | 378290.15   |
| 3746060.70  | 0.25520     | (13092607) |            |             |
| 378102.45   | 3745973.71  | 0.19708    | (13101307) | 378136.71   |
| 3745937.76  | 0.18599     | (13101307) |            |             |
| 378064.09   | 3745931.01  | 0.18234    | (13101307) | 378057.50   |
| 3745971.00  | 0.19472     | (13101307) |            |             |
| 378020.77   | 3745925.59  | 0.17910    | (13101307) | 378097.98   |
| 3745892.30  | 0.17213     | (13101307) |            |             |
| 377945.73   | 3745896.16  | 0.16732    | (13101307) | 377910.99   |
| 3745974.33  | 0.18666     | (13101307) |            |             |
| 377899.16   | 3745974.33  | 0.18567    | (13101307) | 377886.24   |
| 3745890.54  | 0.16229     | (13101307) |            |             |
| 378905.58   | 3746007.82  | 0.14029    | (13101307) | 378849.35   |
| 3745966.07  | 0.14027     | (13101307) |            |             |
| 378850.56   | 3745926.26  | 0.13393    | (13101307) | 378904.85   |
| 3745929.40  | 0.12890     | (13101307) |            |             |
| 378905.09   | 3745968.24  | 0.13441    | (13101307) | 378792.65   |



|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3745935.43 | 0.14137    | (13101307) |                      |
| 378835.36  | 3745898.03 | 0.13119    | (13101307) 378898.10 |
| 3745978.14 | 0.13665    | (13101307) |                      |
| 378905.58  | 3746139.80 | 0.16248    | (13101307) 378989.79 |
| 3746015.30 | 0.13133    | (13101307) |                      |
| 378927.53  | 3745927.95 | 0.12644    | (13101307) 378785.65 |
| 3745990.20 | 0.15190    | (13101307) |                      |
| 378968.55  | 3745925.05 | 0.12205    | (13101307) 378822.57 |
| 3745867.87 | 0.12793    | (13101307) |                      |
| 378827.29  | 3746174.68 | 0.18387    | (13101307) 378905.44 |
| 3746200.40 | 0.17398    | (13101307) |                      |
| 378801.57  | 3746268.53 | 0.21354    | (13101307) 378917.46 |
| 3746278.55 | 0.18715    | (13101307) |                      |
| 378990.94  | 3746201.07 | 0.15825    | (13101307) 378819.28 |
| 3746393.77 | 0.24960    | (16041518) |                      |
| 378915.13  | 3746385.08 | 0.23103    | (16041518) 378802.58 |
| 3746327.97 | 0.23050    | (13101307) |                      |
| 378914.07  | 3746458.46 | 0.27377    | (16021717) 378821.19 |
| 3746549.14 | 0.42262    | (16021717) |                      |
| 378821.59  | 3746480.77 | 0.29453    | (16041518) 378912.35 |
| 3746735.38 | 0.44115    | (16021717) |                      |
| 378824.34  | 3746712.99 | 0.56128    | (16021717) 378922.96 |
| 3746779.78 | 0.39009    | (16021717) |                      |
| 378695.85  | 3746773.10 | 0.74101    | (16021717) 378680.53 |
| 3746992.74 | 0.77649    | (13020217) |                      |
| 378853.81  | 3747315.72 | 0.41055    | (12042318) 378645.51 |
| 3747261.85 | 0.74084    | (14041418) |                      |
| 378640.80  | 3747343.96 | 0.77620    | (14041418) 378507.67 |
| 3747524.45 | 0.73772    | (13112216) |                      |
| 378555.93  | 3747501.76 | 0.74171    | (16090407) 378866.77 |
| 3747547.93 | 0.43302    | (14041418) |                      |
| 378884.04  | 3747599.56 | 0.39950    | (14041418) 378918.04 |
| 3747592.76 | 0.38643    | (14041418) |                      |
| 378917.34  | 3747541.50 | 0.39658    | (14041418) 378840.80 |
| 3747574.80 | 0.43275    | (14041418) |                      |
| 378988.66  | 3747636.53 | 0.33807    | (14041418) 378848.12 |
| 3747632.69 | 0.38965    | (16090407) |                      |
| 378840.97  | 3747611.24 | 0.40343    | (14041418) 378928.50 |
| 3747713.24 | 0.32123    | (16090407) |                      |
| 378927.11  | 3747552.13 | 0.38844    | (14041418) 378917.20 |
| 3747527.25 | 0.39653    | (14041418) |                      |
| 379036.52  | 3747187.14 | 0.36288    | (14041207) 379090.75 |
| 3747248.44 | 0.33235    | (12042318) |                      |
| 379099.40  | 3747185.96 | 0.33005    | (14041207) 379204.32 |
| 3747183.21 | 0.27853    | (14041207) |                      |
| 379162.67  | 3747246.48 | 0.29685    | (14041207) 379279.38 |
| 3747178.89 | 0.24384    | (14041207) |                      |
| 379301.78  | 3747271.63 | 0.24750    | (14041207) 379235.37 |
| 3747244.91 | 0.27118    | (14041207) |                      |

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 13:54:23

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

| ** CONC OF NOX IN MICROGRAMS/M**3 |                                |
|-----------------------------------|--------------------------------|
| **                                |                                |
| X-COORD (M)<br>Y-COORD (M)        | Y-COORD (M)<br>CONC (YYMMDDHH) |
| CONC (YYMMDDHH)                   | X-COORD (M)                    |
| 379422.01                         | 3747246.05                     |
| 3747191.27                        | 0.18212 (14041207)             |
| 379434.32                         | 3747101.49                     |
| 3747231.81                        | 0.18978 (14041207)             |
| 379500.69                         | 3747247.50                     |
| 3747228.67                        | 0.15603 (14041207)             |
| 379559.58                         | 3747187.16                     |
| 3747182.10                        | 0.14742 (13020217)             |
| 379527.96                         | 3747129.48                     |
| 3747183.54                        | 0.14006 (13020217)             |
| 379678.07                         | 3747268.74                     |
| 3747141.55                        | 0.13931 (13020217)             |
| 379728.03                         | 3747160.37                     |
| 3747187.89                        | 0.11375 (13020217)             |
| 379834.70                         | 3747231.09                     |
| 3747433.82                        | 0.13397 (14041207)             |
| 379790.14                         | 3747436.93                     |
| 3747506.45                        | 0.14173 (12042318)             |
| 379838.60                         | 3747509.86                     |
| 3747562.92                        | 0.13321 (12042318)             |
| 379789.40                         | 3747527.20                     |
| 3745747.00                        | 0.11931 (13101307)             |
| 378209.49                         | 3746740.07                     |
| 3746798.00                        | 6.78931 (16021717)             |
| 378254.25                         | 3746886.86                     |
|                                   | 8.79373 (13020217)             |

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 Sequoia Commerce Center\1579 \*\*\* 09/11/24

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:54:23

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

\*\*\* THE SUMMARY OF HIGHEST 1-HR  
RESULTS \*\*\*

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

| GROUP ID<br>(XR, YR, ZELEV, ZHILL, ZFLAG)                     | AVERAGE CONC<br>OF TYPE | NETWORK<br>GRID-ID | DATE<br>(YYMMDDHH) | RECEPTOR |
|---------------------------------------------------------------|-------------------------|--------------------|--------------------|----------|
| -----                                                         |                         |                    |                    |          |
| ALL HIGH 1ST HIGH VALUE IS<br>3746847.89, 21.00, 21.00, 2.00) | 9.42900                 | ON 16021717: AT (  | 378249.36,         | DC       |

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

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:54:23

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

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1223 Calm Hours Identified  
  
A Total of 251 Missing Hours Identified ( 0.57 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 70 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 70 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 12.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/11/2024  
\*\* File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Ops  
PM10\Ops PM10.ADI

\*\*

\*\*\*\*\*

\*\*

\*\*

\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579  
MODELOPT DFAULT CONC  
AVERTIME 24  
URBANOPT 9818605 County\_of\_Los\_Angeles  
POLLUTID PM\_10  
FLAGPOLE 2.00  
RUNORNOT RUN  
ERRORFIL "Ops PM10.err"

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

```

** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      378174.020  3747147.200      20.920
LOCATION VOL2      VOLUME      378172.352  3747015.221      21.000
LOCATION VOL3      VOLUME      378172.352  3746883.007      21.000
LOCATION VOL4      VOLUME      378169.974  3746842.107      21.000

```

\*\* Source Parameters \*\*

```

SRCPARAM VOL1      0.0009626238      5.000      30.637      1.400
SRCPARAM VOL2      0.0009626238      5.000      30.637      1.400
SRCPARAM VOL3      0.0009626238      5.000      30.637      1.400
SRCPARAM VOL4      0.0009626238      5.000      30.637      1.400
URBANSRC ALL
SRCGROUP ALL

```

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "Ops PM10.rou"

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE KHRH\_V9\_ADJU\KHRH\_v9.SFC

PROFFILE KHRH\_V9\_ADJU\KHRH\_v9.PFL

SURFDATA 3167 2012

UAIRDATA 3190 2012

PROFBASE 19.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "OPS PM10.AD\24H1GALL.PLT" 31

SUMMFILE "Ops PM10.sum"

OU FINISHED

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

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

A Total of                0 Fatal Error Message(s)  
A Total of                2 Warning Message(s)  
A Total of                0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186        70        MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
          0.50  
ME W187        70        MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

▲ \*\*\* AERMOD - VERSION 23132 \*\*\*        \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\*        09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\*        \*\*\*  
                                 \*\*\*        13:57:11

                                 PAGE    1  
\*\*\* MODELOPTs:    RegDFAULT   CONC   ELEV   FLGPOL   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        4 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

\* CCVR\_Sub - Meteorological data includes CCVR substitutions

\* TEMP\_Sub - Meteorological data includes TEMP substitutions

\* Model Accepts FLAGPOLE Receptor . Heights.

\* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 4 Source(s); 1 Source Group(s); and 185  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4 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 Highest Short Term Values by Receptor (RECTABLE  
Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing  
Hours  
b for Both Calm  
and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Ops PM10.err

\*\*File for Summary of Results: Ops PM10.sum

▲ \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 13:57:11

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

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

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

|      |     |   |             |          |           |      |      |       |
|------|-----|---|-------------|----------|-----------|------|------|-------|
| VOL1 |     | 0 | 0.96262E-03 | 378174.0 | 3747147.2 | 20.9 | 5.00 | 30.64 |
| 1.40 | YES |   |             | NO       |           |      |      |       |
| VOL2 |     | 0 | 0.96262E-03 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   |             | NO       |           |      |      |       |
| VOL3 |     | 0 | 0.96262E-03 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   |             | NO       |           |      |      |       |
| VOL4 |     | 0 | 0.96262E-03 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   |             | NO       |           |      |      |       |

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs



```

-----
ALL          VOL1          , VOL2          , VOL3          , VOL4          ,
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Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

\*\*\*

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

```

9818605. VOL1          , VOL2          , VOL3          , VOL4          ,
^ *** AERMOD - VERSION 23132 ***      *** C:\Users\adadabhoy\Desktop\AERMOD\15795
Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
***                                     13:57:11

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

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

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| ( 378289.8, 3747311.1, 19.1, 19.1, 0.0); | ( 378292.3, 3747493.8, 18.9, 18.9, 0.0); |
| ( 378289.9, 3747408.7, 19.0, 19.0, 0.0); | ( 378291.6, 3747328.6, 19.0, 19.0, 0.0); |
| ( 378291.4, 3747417.9, 19.0, 19.0, 0.0); | ( 378589.4, 3747342.0, 17.7, 17.7, 0.0); |
| ( 378519.4, 3747305.1, 18.1, 18.1, 0.0); | ( 378519.0, 3747395.9, 17.9, 17.9, 0.0); |
| ( 378518.0, 3747292.2, 18.2, 18.2, 0.0); | ( 378347.4, 3747259.7, 19.6, 19.6, 0.0); |
| ( 378291.2, 3747266.9, 19.6, 19.6, 0.0); | ( 378360.6, 3747202.7, 20.0, 20.0, 0.0); |
| ( 378227.9, 3747366.4, 19.4, 19.4, 0.0); | ( 378207.8, 3747536.3, 19.0, 19.0, 0.0); |
| ( 378313.3, 3747203.2, 20.0, 20.0, 0.0); | ( 378919.3, 3747184.9, 17.3, 17.3, 0.0); |
| ( 378921.5, 3747245.3, 17.0, 17.0, 0.0); | ( 378937.6, 3747245.3, 17.0, 17.0, 0.0); |

|             |            |       |       |       |             |
|-------------|------------|-------|-------|-------|-------------|
| 3747441.6,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378865.9, | 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378976.9, | 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378922.6, | 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1,  | 20.9,      | 20.9, | 0.0); |       |             |
| ( 379168.5, | 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9,  | 19.3,      | 19.3, | 0.0); |       |             |
| ( 378136.3, | 3746743.3, | 21.0, | 21.0, | 2.0); | ( 378268.7, |
| 3746735.6,  | 21.0,      | 21.0, | 2.0); |       |             |
| ( 378256.3, | 3746996.6, | 21.0, | 21.0, | 2.0); | ( 378249.4, |
| 3746847.9,  | 21.0,      | 21.0, | 2.0); |       |             |
| ( 378309.8, | 3747165.4, | 20.0, | 20.0, | 2.0); | ( 378513.4, |
| 3746995.0,  | 20.0,      | 20.0, | 2.0); |       |             |
| ( 378126.9, | 3747243.5, | 20.8, | 20.8, | 2.0); | ( 378154.0, |
| 3747245.6,  | 20.5,      | 20.5, | 2.0); |       |             |
| ( 378197.0, | 3747247.6, | 20.1, | 20.1, | 2.0); | ( 378227.9, |
| 3747244.7,  | 19.9,      | 19.9, | 2.0); |       |             |
| ( 378273.2, | 3747244.4, | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4,  | 21.0,      | 21.0, | 2.0); |       |             |
| ( 378289.8, | 3747311.1, | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8,  | 18.9,      | 18.9, | 0.0); |       |             |
| ( 378289.9, | 3747408.7, | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6,  | 19.0,      | 19.0, | 0.0); |       |             |
| ( 378291.4, | 3747417.9, | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0,  | 17.7,      | 17.7, | 0.0); |       |             |
| ( 378519.4, | 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9,  | 17.9,      | 17.9, | 0.0); |       |             |
| ( 378518.0, | 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7,  | 19.6,      | 19.6, | 0.0); |       |             |
| ( 378291.2, | 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7,  | 20.0,      | 20.0, | 0.0); |       |             |
| ( 378227.9, | 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3,  | 19.0,      | 19.0, | 0.0); |       |             |
| ( 378313.3, | 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9,  | 17.3,      | 17.3, | 0.0); |       |             |
| ( 378921.5, | 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378865.9, | 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378976.9, | 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2,  | 17.0,      | 17.0, | 0.0); |       |             |
| ( 378922.6, | 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1,  | 20.9,      | 20.9, | 0.0); |       |             |
| ( 379168.5, | 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9,  | 19.3,      | 19.3, | 0.0); |       |             |
| ( 378129.1, | 3747249.4, | 20.8, | 20.8, | 0.0); | ( 378159.5, |
| 3747247.1,  | 20.5,      | 20.5, | 0.0); |       |             |
| ( 378200.2, | 3747247.3, | 20.0, | 20.0, | 0.0); | ( 378226.0, |

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( 378117.1, 3747344.8,      20.1,      20.1,      0.0);      ( 378120.6,
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( 378118.2, 3747553.5,      19.1,      19.1,      0.0);      ( 377945.4,
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( 378084.3, 3747702.2,      19.0,      19.0,      0.0);      ( 378124.6,
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( 377915.9, 3747255.3,      21.0,      21.0,      0.0);      ( 377825.5,
3747276.2,      21.0,      21.0,      0.0);
( 377934.7, 3747187.4,      21.0,      21.0,      0.0);      ( 377998.0,
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( 377996.5, 3746783.4,      21.0,      21.0,      0.0);      ( 378132.8,
3746732.6,      21.0,      21.0,      0.0);
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Sequoia Commerce Center\1579 *** 09/11/24
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

```

( 378131.1, 3746451.9,      21.0,      21.0,      0.0);      ( 378131.1,
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3746150.8,      21.0,      21.0,      0.0);
( 378001.7, 3746015.9,      21.0,      21.0,      0.0);      ( 378290.1,
3746060.7,      21.0,      21.0,      0.0);
( 378102.5, 3745973.7,      21.0,      21.0,      0.0);      ( 378136.7,
3745937.8,      21.0,      21.0,      0.0);
( 378064.1, 3745931.0,      21.0,      21.0,      0.0);      ( 378057.5,
3745971.0,      21.0,      21.0,      0.0);
( 378020.8, 3745925.6,      21.0,      21.0,      0.0);      ( 378098.0,
3745892.3,      21.0,      21.0,      0.0);
( 377945.7, 3745896.2,      21.0,      21.0,      0.0);      ( 377911.0,
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( 377899.2, 3745974.3,      21.0,      21.0,      0.0);      ( 377886.2,

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|                        |       |       |       |             |  |
|------------------------|-------|-------|-------|-------------|--|
| 3745890.5,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378905.6, 3746007.8, | 21.0, | 21.0, | 0.0); | ( 378849.3, |  |
| 3745966.1,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378850.6, 3745926.3, | 21.0, | 21.0, | 0.0); | ( 378904.8, |  |
| 3745929.4,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378905.1, 3745968.2, | 21.0, | 21.0, | 0.0); | ( 378792.6, |  |
| 3745935.4,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378835.4, 3745898.0, | 21.0, | 21.0, | 0.0); | ( 378898.1, |  |
| 3745978.1,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378905.6, 3746139.8, | 21.0, | 21.0, | 0.0); | ( 378989.8, |  |
| 3746015.3,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378927.5, 3745927.9, | 21.0, | 21.0, | 0.0); | ( 378785.6, |  |
| 3745990.2,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378968.5, 3745925.0, | 21.0, | 21.0, | 0.0); | ( 378822.6, |  |
| 3745867.9,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378827.3, 3746174.7, | 21.0, | 21.0, | 0.0); | ( 378905.4, |  |
| 3746200.4,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378801.6, 3746268.5, | 21.0, | 21.0, | 0.0); | ( 378917.5, |  |
| 3746278.5,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378990.9, 3746201.1, | 21.0, | 21.0, | 0.0); | ( 378819.3, |  |
| 3746393.8,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378915.1, 3746385.1, | 20.6, | 20.6, | 0.0); | ( 378802.6, |  |
| 3746328.0,             | 21.0, | 21.0, | 0.0); |             |  |
| ( 378914.1, 3746458.5, | 20.2, | 20.2, | 0.0); | ( 378821.2, |  |
| 3746549.1,             | 20.2, | 20.2, | 0.0); |             |  |
| ( 378821.6, 3746480.8, | 20.9, | 20.9, | 0.0); | ( 378912.3, |  |
| 3746735.4,             | 18.8, | 18.8, | 0.0); |             |  |
| ( 378824.3, 3746713.0, | 19.9, | 19.9, | 0.0); | ( 378923.0, |  |
| 3746779.8,             | 18.6, | 18.6, | 0.0); |             |  |
| ( 378695.8, 3746773.1, | 20.0, | 20.0, | 0.0); | ( 378680.5, |  |
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| ( 378853.8, 3747315.7, | 17.0, | 17.0, | 0.0); | ( 378645.5, |  |
| 3747261.8,             | 18.0, | 18.0, | 0.0); |             |  |
| ( 378640.8, 3747344.0, | 17.7, | 17.7, | 0.0); | ( 378507.7, |  |
| 3747524.4,             | 17.8, | 17.8, | 0.0); |             |  |
| ( 378555.9, 3747501.8, | 17.5, | 17.5, | 0.0); | ( 378866.8, |  |
| 3747547.9,             | 17.0, | 17.0, | 0.0); |             |  |
| ( 378884.0, 3747599.6, | 17.0, | 17.0, | 0.0); | ( 378918.0, |  |
| 3747592.8,             | 17.0, | 17.0, | 0.0); |             |  |
| ( 378917.3, 3747541.5, | 17.0, | 17.0, | 0.0); | ( 378840.8, |  |
| 3747574.8,             | 17.0, | 17.0, | 0.0); |             |  |
| ( 378988.7, 3747636.5, | 17.0, | 17.0, | 0.0); | ( 378848.1, |  |
| 3747632.7,             | 17.0, | 17.0, | 0.0); |             |  |
| ( 378841.0, 3747611.2, | 17.0, | 17.0, | 0.0); | ( 378928.5, |  |
| 3747713.2,             | 17.0, | 17.0, | 0.0); |             |  |
| ( 378927.1, 3747552.1, | 17.0, | 17.0, | 0.0); | ( 378917.2, |  |
| 3747527.2,             | 17.0, | 17.0, | 0.0); |             |  |
| ( 379036.5, 3747187.1, | 17.0, | 17.0, | 0.0); | ( 379090.8, |  |
| 3747248.4,             | 17.0, | 17.0, | 0.0); |             |  |
| ( 379099.4, 3747186.0, | 17.0, | 17.0, | 0.0); | ( 379204.3, |  |

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( 379434.3, 3747101.5,      17.0,      17.0,      0.0);      ( 379478.2,
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( 379528.0, 3747129.5,      17.0,      17.0,      0.0);      ( 379645.2,
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3747141.5,      17.0,      17.0,      0.0);
( 379728.0, 3747160.4,      17.0,      17.0,      0.0);      ( 379841.9,
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( 379834.7, 3747231.1,      17.0,      17.0,      0.0);      ( 379835.9,
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( 379790.1, 3747436.9,      17.0,      17.0,      0.0);      ( 379790.7,
3747506.4,      17.0,      17.0,      0.0);
( 379838.6, 3747509.9,      17.0,      17.0,      0.0);      ( 379845.6,
3747562.9,      17.0,      17.0,      0.0);
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Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
***      13:57:11

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

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

```

( 379789.4, 3747527.2,      17.0,      17.0,      0.0);      ( 377635.4,
3745747.0,      21.0,      21.0,      0.0);
( 378209.5, 3746740.1,      21.0,      21.0,      2.0);      ( 378248.3,
3746798.0,      21.0,      21.0,      2.0);
( 378254.2, 3746886.9,      21.0,      21.0,      2.0);

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Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
***      13:57:11

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

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*** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***

```

(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

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Sequoia Commerce Center\1579 ***      09/11/24
*** AERMET - VERSION 16216 ***      ***
***                               ***
***                               13:57:11

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

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

DATA \*\*\*

Surface file: KHR V9 ADJU\KHR v9.SFC

Met Version: 16216

Profile file: KHR V9 ADJU\KHR v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3167  
Name: UNKNOWN

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

| YR     | MO  | DY | JDY | HR | H0  | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN |
|--------|-----|----|-----|----|-----|----|----|-------|-------|-------|-----|-----|----|-------|
| ALBEDO | REF | WS | WD  | HT | REF | TA | HT |       |       |       |     |     |    |       |

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- - - - -

|      |      |      |     |       |        |        |        |        |       |       |          |      |      |  |
|------|------|------|-----|-------|--------|--------|--------|--------|-------|-------|----------|------|------|--|
| 12   | 01   | 01   | 1   | 01    | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |  |
| 1.00 | 0.00 | 0.   | 7.9 | 283.8 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 02    | -2.1   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |  |
| 1.00 | 0.53 | 305. | 7.9 | 283.1 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 03    | -9.0   | 0.127  | -9.000 | -9.000 | -999. | 109.  | 20.8     | 0.24 | 2.79 |  |
| 1.00 | 1.18 | 323. | 7.9 | 282.5 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 04    | -2.2   | 0.068  | -9.000 | -9.000 | -999. | 43.   | 13.3     | 0.24 | 2.79 |  |
| 1.00 | 0.53 | 296. | 7.9 | 282.0 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 05    | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |  |
| 1.00 | 0.00 | 0.   | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 06    | -6.0   | 0.103  | -9.000 | -9.000 | -999. | 80.   | 16.7     | 0.24 | 2.79 |  |
| 1.00 | 0.97 | 321. | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 07    | -4.3   | 0.088  | -9.000 | -9.000 | -999. | 63.   | 14.4     | 0.24 | 2.79 |  |
| 1.00 | 0.82 | 313. | 7.9 | 280.4 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 08    | 15.7   | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |  |
| 0.55 | 0.00 | 0.   | 7.9 | 281.4 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 09    | 35.7   | 0.115  | 0.353  | 0.013  | 45.   | 93.   | -3.8     | 0.24 | 2.79 |  |
| 0.32 | 0.63 | 179. | 7.9 | 285.4 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 10    | 109.0  | 0.141  | 0.727  | 0.009  | 128.  | 127.  | -2.3     | 0.24 | 2.79 |  |
| 0.24 | 0.70 | 170. | 7.9 | 289.2 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 11    | 164.4  | 0.149  | 1.186  | 0.005  | 370.  | 138.  | -1.8     | 0.24 | 2.79 |  |
| 0.21 | 0.70 | 222. | 7.9 | 297.0 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 12    | 191.7  | 0.163  | 1.525  | 0.005  | 672.  | 158.  | -2.1     | 0.24 | 2.79 |  |
| 0.20 | 0.79 | 12.  | 7.9 | 299.9 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 13    | 191.3  | 0.170  | 1.819  | 0.005  | 1144. | 168.  | -2.3     | 0.24 | 2.79 |  |
| 0.20 | 0.84 | 260. | 7.9 | 300.9 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 14    | 161.6  | 0.344  | 1.852  | 0.005  | 1428. | 483.  | -22.7    | 0.24 | 2.79 |  |
| 0.21 | 2.49 | 260. | 7.9 | 298.8 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 15    | 105.0  | 0.367  | 1.638  | 0.005  | 1521. | 534.  | -42.8    | 0.24 | 2.79 |  |
| 0.24 | 2.84 | 292. | 7.9 | 293.8 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 16    | 29.7   | 0.383  | 1.079  | 0.005  | 1539. | 570.  | -172.5   | 0.24 | 2.79 |  |
| 0.33 | 3.22 | 276. | 7.9 | 290.4 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 17    | -24.8  | 0.287  | -9.000 | -9.000 | -999. | 374.  | 90.3     | 0.24 | 2.79 |  |
| 0.59 | 2.52 | 284. | 7.9 | 289.2 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 18    | -26.7  | 0.269  | -9.000 | -9.000 | -999. | 336.  | 79.8     | 0.24 | 2.79 |  |
| 1.00 | 2.38 | 285. | 7.9 | 287.5 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 19    | -10.2  | 0.137  | -9.000 | -9.000 | -999. | 133.  | 22.7     | 0.24 | 2.79 |  |
| 1.00 | 1.26 | 287. | 7.9 | 287.5 | 2.0    |        |        |        |       |       |          |      |      |  |
| 12   | 01   | 01   | 1   | 20    | -6.2   | 0.106  | -9.000 | -9.000 | -999. | 83.   | 17.2     | 0.24 | 2.79 |  |

|          |      |       |       |        |        |       |      |      |      |      |  |  |
|----------|------|-------|-------|--------|--------|-------|------|------|------|------|--|--|
| 1.00     | 0.99 | 303.  | 7.9   | 287.0  | 2.0    |       |      |      |      |      |  |  |
| 12 01 01 | 1 21 | -7.6  | 0.117 | -9.000 | -9.000 | -999. | 96.  | 19.1 | 0.24 | 2.79 |  |  |
| 1.00     | 1.09 | 326.  | 7.9   | 286.4  | 2.0    |       |      |      |      |      |  |  |
| 12 01 01 | 1 22 | -6.8  | 0.110 | -9.000 | -9.000 | -999. | 88.  | 18.0 | 0.24 | 2.79 |  |  |
| 1.00     | 1.03 | 297.  | 7.9   | 285.9  | 2.0    |       |      |      |      |      |  |  |
| 12 01 01 | 1 23 | -19.9 | 0.200 | -9.000 | -9.000 | -999. | 214. | 43.9 | 0.24 | 2.79 |  |  |
| 1.00     | 1.79 | 290.  | 7.9   | 285.9  | 2.0    |       |      |      |      |      |  |  |
| 12 01 01 | 1 24 | -19.6 | 0.196 | -9.000 | -9.000 | -999. | 209. | 42.3 | 0.24 | 2.79 |  |  |
| 1.00     | 1.76 | 282.  | 7.9   | 285.9  | 2.0    |       |      |      |      |      |  |  |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 7.9    | 1 | -999. | -99.00 | 283.8   | 99.0   | -99.00 | -99.00 |

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

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 Sequoia Commerce Center\1579 \*\*\*  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 09/11/24  
 \*\*\* 13:57:11

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

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M)         | CONC (YYMMDDHH)     | X-COORD (M) |
|-------------|---------------------|---------------------|-------------|
| Y-COORD (M) | CONC (YYMMDDHH)     |                     |             |
| 378289.83   | 3747311.07          | 0.05958b (13010324) | 378292.28   |
| 3747493.83  | 0.02609b (13010324) |                     |             |
| 378289.93   | 3747408.68          | 0.03662b (13010324) | 378291.63   |
| 3747328.59  | 0.05384b (13010324) |                     |             |
| 378291.42   | 3747417.90          | 0.03512b (13010324) | 378589.39   |
| 3747341.97  | 0.02262b (13010324) |                     |             |
| 378519.42   | 3747305.13          | 0.02931b (13010324) | 378519.01   |
| 3747395.88  | 0.02402b (13010324) |                     |             |
| 378517.98   | 3747292.17          | 0.03024b (13010324) | 378347.39   |
| 3747259.66  | 0.06170b (13010324) |                     |             |
| 378291.17   | 3747266.91          | 0.07692b (13010324) | 378360.59   |



|            |                     |                               |
|------------|---------------------|-------------------------------|
| 3747202.71 | 0.07161b (13010324) |                               |
| 378227.93  | 3747366.41          | 0.04883b (13010324) 378207.82 |
| 3747536.30 | 0.02334b (13010324) |                               |
| 378313.28  | 3747203.17          | 0.09570b (13010324) 378919.28 |
| 3747184.91 | 0.01235 (13121424)  |                               |
| 378921.54  | 3747245.33          | 0.01185 (14011424) 378937.65  |
| 3747441.57 | 0.00992b (13010324) |                               |
| 378865.93  | 3747523.67          | 0.01032b (13010324) 378731.88 |
| 3747454.64 | 0.01405b (13010324) |                               |
| 378976.87  | 3747269.00          | 0.01050 (16120424) 378875.27  |
| 3747301.16 | 0.01242 (14011424)  |                               |
| 378922.56  | 3747028.97          | 0.01283 (13121424) 378056.86  |
| 3747325.10 | 0.05324b (13010324) |                               |
| 379168.53  | 3747645.58          | 0.00614b (13010324) 377796.45 |
| 3747904.89 | 0.00806b (13010324) |                               |
| 378136.31  | 3746743.35          | 0.16746b (13010324) 378268.72 |
| 3746735.61 | 0.11163b (13010324) |                               |
| 378256.33  | 3746996.56          | 0.25796c (14011524) 378249.36 |
| 3746847.89 | 0.33333c (14011524) |                               |
| 378309.76  | 3747165.37          | 0.11435b (13010324) 378513.41 |
| 3746995.01 | 0.04496 (13121424)  |                               |
| 378126.89  | 3747243.53          | 0.12999c (13111624) 378154.05 |
| 3747245.58 | 0.14019b (13010324) |                               |
| 378196.98  | 3747247.62          | 0.13743b (13010324) 378227.94 |
| 3747244.70 | 0.12623b (13010324) |                               |
| 378273.20  | 3747244.41          | 0.09808b (13010324) 378052.71 |
| 3747256.38 | 0.07977 (13122124)  |                               |
| 378289.83  | 3747311.07          | 0.05958b (13010324) 378292.28 |
| 3747493.83 | 0.02609b (13010324) |                               |
| 378289.93  | 3747408.68          | 0.03662b (13010324) 378291.63 |
| 3747328.59 | 0.05384b (13010324) |                               |
| 378291.42  | 3747417.90          | 0.03512b (13010324) 378589.39 |
| 3747341.97 | 0.02262b (13010324) |                               |
| 378519.42  | 3747305.13          | 0.02931b (13010324) 378519.01 |
| 3747395.88 | 0.02402b (13010324) |                               |
| 378517.98  | 3747292.17          | 0.03024b (13010324) 378347.39 |
| 3747259.66 | 0.06170b (13010324) |                               |
| 378291.17  | 3747266.91          | 0.07692b (13010324) 378360.59 |
| 3747202.71 | 0.07161b (13010324) |                               |
| 378227.93  | 3747366.41          | 0.04883b (13010324) 378207.82 |
| 3747536.30 | 0.02334b (13010324) |                               |
| 378313.28  | 3747203.17          | 0.09570b (13010324) 378919.28 |
| 3747184.91 | 0.01235 (13121424)  |                               |
| 378921.54  | 3747245.33          | 0.01185 (14011424) 378937.65  |
| 3747441.57 | 0.00992b (13010324) |                               |
| 378865.93  | 3747523.67          | 0.01032b (13010324) 378731.88 |
| 3747454.64 | 0.01405b (13010324) |                               |
| 378976.87  | 3747269.00          | 0.01050 (16120424) 378875.27  |
| 3747301.16 | 0.01242 (14011424)  |                               |
| 378922.56  | 3747028.97          | 0.01283 (13121424) 378056.86  |

|                                                                          |                     |                               |
|--------------------------------------------------------------------------|---------------------|-------------------------------|
| 3747325.10                                                               | 0.05324b (13010324) |                               |
| 379168.53                                                                | 3747645.58          | 0.00614b (13010324) 377796.45 |
| 3747904.89                                                               | 0.00806b (13010324) |                               |
| 378129.14                                                                | 3747249.41          | 0.12190b (13010324) 378159.47 |
| 3747247.15                                                               | 0.13918b (13010324) |                               |
| 378200.25                                                                | 3747247.32          | 0.13649b (13010324) 378226.05 |
| 3747247.67                                                               | 0.12310b (13010324) |                               |
| 378283.74                                                                | 3747245.23          | 0.09161b (13010324) 378052.80 |
| 3747257.43                                                               | 0.07914 (13122124)  |                               |
| 378116.42                                                                | 3747276.78          | 0.08876b (13010324) 378117.29 |
| 3747315.99                                                               | 0.06557b (13010324) |                               |
| 378117.11                                                                | 3747344.75          | 0.05429b (13010324) 378120.60 |
| 3747381.70                                                               | 0.04416b (13010324) |                               |
| 378121.82                                                                | 3747450.20          | 0.03195b (13010324) 378121.82 |
| 3747514.16                                                               | 0.02491b (13010324) |                               |
| 378118.16                                                                | 3747553.55          | 0.02174b (13010324) 377945.41 |
| 3747434.99                                                               | 0.02646b (13010324) |                               |
| 378083.80                                                                | 3747685.98          | 0.01471b (13010324) 378124.58 |
| 3747684.58                                                               | 0.01494b (13010324) |                               |
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| Sequoia Commerce Center\1579 *** 09/11/24                                |                     |                               |
| *** AERMET - VERSION 16216 ***                                           |                     |                               |
| *** 13:57:11                                                             |                     |                               |

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

VALUES FOR SOURCE GROUP: ALL \*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M\*\*3

| X-COORD (M) | Y-COORD (M)         | CONC                | (YYMMDDHH) | X-COORD (M) |
|-------------|---------------------|---------------------|------------|-------------|
| Y-COORD (M) | CONC                | (YYMMDDHH)          |            |             |
| 378084.32   | 3747702.19          | 0.01414b (13010324) |            | 378124.58   |
| 3747702.19  | 0.01430b (13010324) |                     |            |             |
| 377995.02   | 3747255.00          | 0.06032 (13122124)  |            | 377953.54   |
| 3747255.45  | 0.04997 (13122124)  |                     |            |             |
| 377915.91   | 3747255.30          | 0.04276 (13122124)  |            | 377825.47   |
| 3747276.19  | 0.02967b (13010324) |                     |            |             |
| 377934.72   | 3747187.43          | 0.05535b (13010324) |            | 377997.97   |
| 3746860.90  | 0.11150c (13112924) |                     |            |             |

|            |                     |                     |           |
|------------|---------------------|---------------------|-----------|
| 377996.55  | 3746783.41          | 0.09340c (12122924) | 378132.80 |
| 3746732.61 | 0.14583b (13010324) |                     |           |
| 378131.09  | 3746451.89          | 0.02641b (13010324) | 378131.09 |
| 3746579.33 | 0.04587b (13010324) |                     |           |
| 378131.15  | 3746322.30          | 0.01750b (13010324) | 378138.09 |
| 3746150.82 | 0.01153b (13010324) |                     |           |
| 378001.74  | 3746015.86          | 0.00859b (13010324) | 378290.15 |
| 3746060.70 | 0.00947b (13010324) |                     |           |
| 378102.45  | 3745973.71          | 0.00817b (13010324) | 378136.71 |
| 3745937.76 | 0.00771b (13010324) |                     |           |
| 378064.09  | 3745931.01          | 0.00755b (13010324) | 378057.50 |
| 3745971.00 | 0.00807b (13010324) |                     |           |
| 378020.77  | 3745925.59          | 0.00742b (13010324) | 378097.98 |
| 3745892.30 | 0.00713b (13010324) |                     |           |
| 377945.73  | 3745896.16          | 0.00693b (13010324) | 377910.99 |
| 3745974.33 | 0.00773b (13010324) |                     |           |
| 377899.16  | 3745974.33          | 0.00769b (13010324) | 377886.24 |
| 3745890.54 | 0.00672b (13010324) |                     |           |
| 378905.58  | 3746007.82          | 0.00581b (13010324) | 378849.35 |
| 3745966.07 | 0.00581b (13010324) |                     |           |
| 378850.56  | 3745926.26          | 0.00555b (13010324) | 378904.85 |
| 3745929.40 | 0.00534b (13010324) |                     |           |
| 378905.09  | 3745968.24          | 0.00557b (13010324) | 378792.65 |
| 3745935.43 | 0.00586b (13010324) |                     |           |
| 378835.36  | 3745898.03          | 0.00543b (13010324) | 378898.10 |
| 3745978.14 | 0.00566b (13010324) |                     |           |
| 378905.58  | 3746139.80          | 0.00673b (13010324) | 378989.79 |
| 3746015.30 | 0.00544b (13010324) |                     |           |
| 378927.53  | 3745927.95          | 0.00524b (13010324) | 378785.65 |
| 3745990.20 | 0.00629b (13010324) |                     |           |
| 378968.55  | 3745925.05          | 0.00506b (13010324) | 378822.57 |
| 3745867.87 | 0.00530b (13010324) |                     |           |
| 378827.29  | 3746174.68          | 0.00762b (13010324) | 378905.44 |
| 3746200.40 | 0.00721b (13010324) |                     |           |
| 378801.57  | 3746268.53          | 0.00885b (13010324) | 378917.46 |
| 3746278.55 | 0.00775b (13010324) |                     |           |
| 378990.94  | 3746201.07          | 0.00656b (13010324) | 378819.28 |
| 3746393.77 | 0.01015b (13010324) |                     |           |
| 378915.13  | 3746385.08          | 0.00873b (13010324) | 378802.58 |
| 3746327.97 | 0.00955b (13010324) |                     |           |
| 378914.07  | 3746458.46          | 0.00944b (13010324) | 378821.19 |
| 3746549.14 | 0.01218b (13010324) |                     |           |
| 378821.59  | 3746480.77          | 0.01125b (13010324) | 378912.35 |
| 3746735.38 | 0.01194b (13010324) |                     |           |
| 378824.34  | 3746712.99          | 0.01418b (13010324) | 378922.96 |
| 3746779.78 | 0.01201c (14010224) |                     |           |
| 378695.85  | 3746773.10          | 0.02054b (13010324) | 378680.53 |
| 3746992.74 | 0.02419 (13121424)  |                     |           |
| 378853.81  | 3747315.72          | 0.01282b (13010324) | 378645.51 |
| 3747261.85 | 0.02204b (13010324) |                     |           |

|            |                     |                     |           |
|------------|---------------------|---------------------|-----------|
| 378640.80  | 3747343.96          | 0.01990b (13010324) | 378507.67 |
| 3747524.45 | 0.01821b (13010324) |                     |           |
| 378555.93  | 3747501.76          | 0.01774b (13010324) | 378866.77 |
| 3747547.93 | 0.01004b (13010324) |                     |           |
| 378884.04  | 3747599.56          | 0.00926b (13010324) | 378918.04 |
| 3747592.76 | 0.00890b (13010324) |                     |           |
| 378917.34  | 3747541.50          | 0.00937b (13010324) | 378840.80 |
| 3747574.80 | 0.01013b (13010324) |                     |           |
| 378988.66  | 3747636.53          | 0.00776b (13010324) | 378848.12 |
| 3747632.69 | 0.00937b (13010324) |                     |           |
| 378840.97  | 3747611.24          | 0.00970b (13010324) | 378928.50 |
| 3747713.24 | 0.00775b (13010324) |                     |           |
| 378927.11  | 3747552.13          | 0.00914b (13010324) | 378917.20 |
| 3747527.25 | 0.00950b (13010324) |                     |           |
| 379036.52  | 3747187.14          | 0.00987 (13121424)  | 379090.75 |
| 3747248.44 | 0.00870 (13121424)  |                     |           |
| 379099.40  | 3747185.96          | 0.00885 (13121424)  | 379204.32 |
| 3747183.21 | 0.00747 (13121424)  |                     |           |
| 379162.67  | 3747246.48          | 0.00777 (13121424)  | 379279.38 |
| 3747178.89 | 0.00668 (13121424)  |                     |           |
| 379301.78  | 3747271.63          | 0.00628 (13121424)  | 379235.37 |
| 3747244.91 | 0.00697 (13121424)  |                     |           |

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 Sequoia Commerce Center\1579 \*\*\* 09/11/24  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 379422.01   | 3747246.05  | 0.00541    | (13121424) | 379458.45   |
| 3747191.27  | 0.00522     | (13121424) |            |             |
| 379434.32   | 3747101.49  | 0.00540    | (13121424) | 379478.24   |
| 3747231.81  | 0.00506     | (13121424) |            |             |
| 379500.69   | 3747247.50  | 0.00490    | (13121424) | 379596.74   |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3747228.67 | 0.00440    | (13121424) |                      |
| 379559.58  | 3747187.16 | 0.00461    | (13121424) 379599.40 |
| 3747182.10 | 0.00440    | (13121424) |                      |
| 379527.96  | 3747129.48 | 0.00479    | (13121424) 379645.25 |
| 3747183.54 | 0.00418    | (13121424) |                      |
| 379678.07  | 3747268.74 | 0.00400    | (13121424) 379687.49 |
| 3747141.55 | 0.00398    | (14010324) |                      |
| 379728.03  | 3747160.37 | 0.00381    | (14010324) 379841.94 |
| 3747187.89 | 0.00339    | (13121424) |                      |
| 379834.70  | 3747231.09 | 0.00341    | (13121424) 379835.94 |
| 3747433.82 | 0.00328    | (13121424) |                      |
| 379790.14  | 3747436.93 | 0.00342    | (16120424) 379790.73 |
| 3747506.45 | 0.00338    | (16120424) |                      |
| 379838.60  | 3747509.86 | 0.00323    | (16120424) 379845.57 |
| 3747562.92 | 0.00316    | (16120424) |                      |
| 379789.40  | 3747527.20 | 0.00336    | (16120424) 377635.37 |
| 3745747.00 | 0.00494b   | (13010324) |                      |
| 378209.49  | 3746740.07 | 0.15804b   | (13010324) 378248.32 |
| 3746798.00 | 0.23036c   | (14011524) |                      |
| 378254.25  | 3746886.86 | 0.32070    | (14011424)           |

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

\*\*\* THE SUMMARY OF HIGHEST 24-HR

RESULTS \*\*\*

\*\* CONC OF PM<sub>10</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

| GROUP ID                      | AVERAGE CONC    | DATE       | RECEPTOR |
|-------------------------------|-----------------|------------|----------|
| (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE GRID-ID | (YYMMDDHH) |          |
| -----                         |                 |            |          |
| -----                         |                 |            |          |

ALL HIGH 1ST HIGH VALUE IS 0.33333c ON 14011524: AT ( 378249.36,  
 3746847.89, 21.00, 21.00, 2.00) DC

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

DP = DISCPOLR  
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\*\*\* MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1223 Calm Hours Identified  
  
A Total of 251 Missing Hours Identified ( 0.57 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 70 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 70 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*  
\*\*\*\*\*  
\*\*  
\*\* AERMOD Input Produced by:  
\*\* AERMOD View Ver. 12.0.0  
\*\* Lakes Environmental Software Inc.  
\*\* Date: 9/11/2024  
\*\* File: C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\Ops  
PM25\Ops PM25.ADI  
\*\*  
\*\*\*\*\*  
\*\*  
\*\*

\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Users\adadabhoy\Desktop\AERMOD\15795 Sequoia Commerce Center\1579

MODELOPT DFAULT CONC

AVERTIME 24

URBANOPT 9818605 County\_of\_Los\_Angeles

POLLUTID PM\_2.5

FLAGPOLE 2.00

RUNORNOT RUN

ERRORFIL "Ops PM25.err"

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

|               |        |            |             |        |
|---------------|--------|------------|-------------|--------|
| LOCATION VOL1 | VOLUME | 378174.020 | 3747147.200 | 20.920 |
| LOCATION VOL2 | VOLUME | 378172.352 | 3747015.221 | 21.000 |
| LOCATION VOL3 | VOLUME | 378172.352 | 3746883.007 | 21.000 |
| LOCATION VOL4 | VOLUME | 378169.974 | 3746842.107 | 21.000 |

\*\* Source Parameters \*\*

|               |              |       |        |       |
|---------------|--------------|-------|--------|-------|
| SRCPARAM VOL1 | 0.0007522073 | 5.000 | 30.637 | 1.400 |
| SRCPARAM VOL2 | 0.0007522073 | 5.000 | 30.637 | 1.400 |
| SRCPARAM VOL3 | 0.0007522073 | 5.000 | 30.637 | 1.400 |
| SRCPARAM VOL4 | 0.0007522073 | 5.000 | 30.637 | 1.400 |
| URBANSRC      | ALL          |       |        |       |
| SRCGROUP      | ALL          |       |        |       |

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "Ops PM25.rou"

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE KHHR\_V9\_ADJU\KHHR\_v9.SFC

PROFFILE KHHR\_V9\_ADJU\KHHR\_v9.PFL

SURFDATA 3167 2012

UAIRDATA 3190 2012

PROFBASE 19.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "OPS PM25.AD\24H1GALL.PLT" 31

SUMMFILE "Ops PM25.sum"

OU FINISHED

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

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

A Total of 0 Fatal Error Message(s)

A Total of 2 Warning Message(s)

A Total of 0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*

\*\*\* NONE \*\*\*

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

ME W186 70 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50

ME W187 70 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* 13:59:33



\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL 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 4 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
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Accepts FLAGPOLE Receptor . Heights.
- \* The User Specified a Pollutant Type of: PM\_2.5

\*\*Model Calculates 1 Short Term Average(s) of: 24-HR

\*\*This Run Includes: 4 Source(s); 1 Source Group(s); and 185  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 4 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 Highest Short Term Values by Receptor (RECTABLE  
 Keyword)  
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
 Keyword)  
 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
 Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing  
 Hours  
 b for Both Calm  
 and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay  
 Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ;  
 Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.5 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Ops PM25.err

\*\*File for Summary of Results: Ops PM25.sum

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 \*\*\* 13:59:33

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

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

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

-----

- - - - -

|      |     |   |             |          |           |      |      |       |
|------|-----|---|-------------|----------|-----------|------|------|-------|
| VOL1 |     | 0 | 0.75221E-03 | 378174.0 | 3747147.2 | 20.9 | 5.00 | 30.64 |
| 1.40 | YES |   | NO          |          |           |      |      |       |
| VOL2 |     | 0 | 0.75221E-03 | 378172.4 | 3747015.2 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   | NO          |          |           |      |      |       |
| VOL3 |     | 0 | 0.75221E-03 | 378172.4 | 3746883.0 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   | NO          |          |           |      |      |       |
| VOL4 |     | 0 | 0.75221E-03 | 378170.0 | 3746842.1 | 21.0 | 5.00 | 30.64 |
| 1.40 | YES |   | NO          |          |           |      |      |       |

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

| SRCGROUP ID | SOURCE IDs |
|-------------|------------|
| -----       | -----      |

ALL VOL1 , VOL2 , VOL3 , VOL4 ,  
▲ \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
Sequoia Commerce Center\1579 \*\*\* 09/11/24  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

\*\*\*

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

9818605. VOL1 , VOL2 , VOL3 , VOL4 ,  
▲ \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\adadabhoy\Desktop\AERMOD\15795  
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\*\*\* MODELOPTs:      RegDFAULT   CONC   ELEV   FLGPOL   URBAN   ADJ\_U\*

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

|                                  |       |       |       |             |
|----------------------------------|-------|-------|-------|-------------|
| ( 378289.8, 3747311.1,           | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8,      18.9,      18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7,           | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6,      19.0,      19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9,           | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0,      17.7,      17.7, | 0.0); |       |       |             |
| ( 378519.4, 3747305.1,           | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9,      17.9,      17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2,           | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7,      19.6,      19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9,           | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7,      20.0,      20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4,           | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3,      19.0,      19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2,           | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9,      17.3,      17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3,           | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6,      17.0,      17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7,           | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6,      17.0,      17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0,           | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2,      17.0,      17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0,           | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1,      20.9,      20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6,           | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9,      19.3,      19.3, | 0.0); |       |       |             |
| ( 378136.3, 3746743.3,           | 21.0, | 21.0, | 2.0); | ( 378268.7, |
| 3746735.6,      21.0,      21.0, | 2.0); |       |       |             |
| ( 378256.3, 3746996.6,           | 21.0, | 21.0, | 2.0); | ( 378249.4, |
| 3746847.9,      21.0,      21.0, | 2.0); |       |       |             |
| ( 378309.8, 3747165.4,           | 20.0, | 20.0, | 2.0); | ( 378513.4, |
| 3746995.0,      20.0,      20.0, | 2.0); |       |       |             |
| ( 378126.9, 3747243.5,           | 20.8, | 20.8, | 2.0); | ( 378154.0, |
| 3747245.6,      20.5,      20.5, | 2.0); |       |       |             |
| ( 378197.0, 3747247.6,           | 20.1, | 20.1, | 2.0); | ( 378227.9, |
| 3747244.7,      19.9,      19.9, | 2.0); |       |       |             |
| ( 378273.2, 3747244.4,           | 19.8, | 19.8, | 2.0); | ( 378052.7, |
| 3747256.4,      21.0,      21.0, | 2.0); |       |       |             |
| ( 378289.8, 3747311.1,           | 19.1, | 19.1, | 0.0); | ( 378292.3, |
| 3747493.8,      18.9,      18.9, | 0.0); |       |       |             |
| ( 378289.9, 3747408.7,           | 19.0, | 19.0, | 0.0); | ( 378291.6, |
| 3747328.6,      19.0,      19.0, | 0.0); |       |       |             |
| ( 378291.4, 3747417.9,           | 19.0, | 19.0, | 0.0); | ( 378589.4, |
| 3747342.0,      17.7,      17.7, | 0.0); |       |       |             |

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378519.4, 3747305.1, | 18.1, | 18.1, | 0.0); | ( 378519.0, |
| 3747395.9, 17.9, 17.9, | 0.0); |       |       |             |
| ( 378518.0, 3747292.2, | 18.2, | 18.2, | 0.0); | ( 378347.4, |
| 3747259.7, 19.6, 19.6, | 0.0); |       |       |             |
| ( 378291.2, 3747266.9, | 19.6, | 19.6, | 0.0); | ( 378360.6, |
| 3747202.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378227.9, 3747366.4, | 19.4, | 19.4, | 0.0); | ( 378207.8, |
| 3747536.3, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378313.3, 3747203.2, | 20.0, | 20.0, | 0.0); | ( 378919.3, |
| 3747184.9, 17.3, 17.3, | 0.0); |       |       |             |
| ( 378921.5, 3747245.3, | 17.0, | 17.0, | 0.0); | ( 378937.6, |
| 3747441.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378865.9, 3747523.7, | 17.0, | 17.0, | 0.0); | ( 378731.9, |
| 3747454.6, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378976.9, 3747269.0, | 17.0, | 17.0, | 0.0); | ( 378875.3, |
| 3747301.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378922.6, 3747029.0, | 17.7, | 17.7, | 0.0); | ( 378056.9, |
| 3747325.1, 20.9, 20.9, | 0.0); |       |       |             |
| ( 379168.5, 3747645.6, | 17.0, | 17.0, | 0.0); | ( 377796.5, |
| 3747904.9, 19.3, 19.3, | 0.0); |       |       |             |
| ( 378129.1, 3747249.4, | 20.8, | 20.8, | 0.0); | ( 378159.5, |
| 3747247.1, 20.5, 20.5, | 0.0); |       |       |             |
| ( 378200.2, 3747247.3, | 20.0, | 20.0, | 0.0); | ( 378226.0, |
| 3747247.7, 19.9, 19.9, | 0.0); |       |       |             |
| ( 378283.7, 3747245.2, | 19.8, | 19.8, | 0.0); | ( 378052.8, |
| 3747257.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378116.4, 3747276.8, | 20.6, | 20.6, | 0.0); | ( 378117.3, |
| 3747316.0, 20.2, 20.2, | 0.0); |       |       |             |
| ( 378117.1, 3747344.8, | 20.1, | 20.1, | 0.0); | ( 378120.6, |
| 3747381.7, 20.0, 20.0, | 0.0); |       |       |             |
| ( 378121.8, 3747450.2, | 19.7, | 19.7, | 0.0); | ( 378121.8, |
| 3747514.2, 19.1, 19.1, | 0.0); |       |       |             |
| ( 378118.2, 3747553.5, | 19.1, | 19.1, | 0.0); | ( 377945.4, |
| 3747435.0, 20.8, 20.8, | 0.0); |       |       |             |
| ( 378083.8, 3747686.0, | 19.0, | 19.0, | 0.0); | ( 378124.6, |
| 3747684.6, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378084.3, 3747702.2, | 19.0, | 19.0, | 0.0); | ( 378124.6, |
| 3747702.2, 18.9, 18.9, | 0.0); |       |       |             |
| ( 377995.0, 3747255.0, | 21.0, | 21.0, | 0.0); | ( 377953.5, |
| 3747255.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377915.9, 3747255.3, | 21.0, | 21.0, | 0.0); | ( 377825.5, |
| 3747276.2, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377934.7, 3747187.4, | 21.0, | 21.0, | 0.0); | ( 377998.0, |
| 3746860.9, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377996.5, 3746783.4, | 21.0, | 21.0, | 0.0); | ( 378132.8, |
| 3746732.6, 21.0, 21.0, | 0.0); |       |       |             |

\*\*\* AERMOD - VERSION 23132 \*\*\*  
 Sequoia Commerce Center\1579 \*\*\*

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 09/11/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 13:59:33

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

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

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378131.1, 3746451.9, | 21.0, | 21.0, | 0.0); | ( 378131.1, |
| 3746579.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378131.1, 3746322.3, | 21.0, | 21.0, | 0.0); | ( 378138.1, |
| 3746150.8, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378001.7, 3746015.9, | 21.0, | 21.0, | 0.0); | ( 378290.1, |
| 3746060.7, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378102.5, 3745973.7, | 21.0, | 21.0, | 0.0); | ( 378136.7, |
| 3745937.8, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378064.1, 3745931.0, | 21.0, | 21.0, | 0.0); | ( 378057.5, |
| 3745971.0, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378020.8, 3745925.6, | 21.0, | 21.0, | 0.0); | ( 378098.0, |
| 3745892.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377945.7, 3745896.2, | 21.0, | 21.0, | 0.0); | ( 377911.0, |
| 3745974.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 377899.2, 3745974.3, | 21.0, | 21.0, | 0.0); | ( 377886.2, |
| 3745890.5, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378905.6, 3746007.8, | 21.0, | 21.0, | 0.0); | ( 378849.3, |
| 3745966.1, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378850.6, 3745926.3, | 21.0, | 21.0, | 0.0); | ( 378904.8, |
| 3745929.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378905.1, 3745968.2, | 21.0, | 21.0, | 0.0); | ( 378792.6, |
| 3745935.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378835.4, 3745898.0, | 21.0, | 21.0, | 0.0); | ( 378898.1, |
| 3745978.1, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378905.6, 3746139.8, | 21.0, | 21.0, | 0.0); | ( 378989.8, |
| 3746015.3, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378927.5, 3745927.9, | 21.0, | 21.0, | 0.0); | ( 378785.6, |
| 3745990.2, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378968.5, 3745925.0, | 21.0, | 21.0, | 0.0); | ( 378822.6, |
| 3745867.9, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378827.3, 3746174.7, | 21.0, | 21.0, | 0.0); | ( 378905.4, |
| 3746200.4, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378801.6, 3746268.5, | 21.0, | 21.0, | 0.0); | ( 378917.5, |
| 3746278.5, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378990.9, 3746201.1, | 21.0, | 21.0, | 0.0); | ( 378819.3, |
| 3746393.8, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378915.1, 3746385.1, | 20.6, | 20.6, | 0.0); | ( 378802.6, |
| 3746328.0, 21.0, 21.0, | 0.0); |       |       |             |
| ( 378914.1, 3746458.5, | 20.2, | 20.2, | 0.0); | ( 378821.2, |
| 3746549.1, 20.2, 20.2, | 0.0); |       |       |             |
| ( 378821.6, 3746480.8, | 20.9, | 20.9, | 0.0); | ( 378912.3, |
| 3746735.4, 18.8, 18.8, | 0.0); |       |       |             |

|                        |       |       |       |             |
|------------------------|-------|-------|-------|-------------|
| ( 378824.3, 3746713.0, | 19.9, | 19.9, | 0.0); | ( 378923.0, |
| 3746779.8, 18.6, 18.6, | 0.0); |       |       |             |
| ( 378695.8, 3746773.1, | 20.0, | 20.0, | 0.0); | ( 378680.5, |
| 3746992.7, 19.0, 19.0, | 0.0); |       |       |             |
| ( 378853.8, 3747315.7, | 17.0, | 17.0, | 0.0); | ( 378645.5, |
| 3747261.8, 18.0, 18.0, | 0.0); |       |       |             |
| ( 378640.8, 3747344.0, | 17.7, | 17.7, | 0.0); | ( 378507.7, |
| 3747524.4, 17.8, 17.8, | 0.0); |       |       |             |
| ( 378555.9, 3747501.8, | 17.5, | 17.5, | 0.0); | ( 378866.8, |
| 3747547.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378884.0, 3747599.6, | 17.0, | 17.0, | 0.0); | ( 378918.0, |
| 3747592.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378917.3, 3747541.5, | 17.0, | 17.0, | 0.0); | ( 378840.8, |
| 3747574.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378988.7, 3747636.5, | 17.0, | 17.0, | 0.0); | ( 378848.1, |
| 3747632.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378841.0, 3747611.2, | 17.0, | 17.0, | 0.0); | ( 378928.5, |
| 3747713.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 378927.1, 3747552.1, | 17.0, | 17.0, | 0.0); | ( 378917.2, |
| 3747527.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379036.5, 3747187.1, | 17.0, | 17.0, | 0.0); | ( 379090.8, |
| 3747248.4, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379099.4, 3747186.0, | 17.0, | 17.0, | 0.0); | ( 379204.3, |
| 3747183.2, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379162.7, 3747246.5, | 17.0, | 17.0, | 0.0); | ( 379279.4, |
| 3747178.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379301.8, 3747271.6, | 17.0, | 17.0, | 0.0); | ( 379235.4, |
| 3747244.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379422.0, 3747246.0, | 17.0, | 17.0, | 0.0); | ( 379458.5, |
| 3747191.3, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379434.3, 3747101.5, | 17.0, | 17.0, | 0.0); | ( 379478.2, |
| 3747231.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379500.7, 3747247.5, | 17.0, | 17.0, | 0.0); | ( 379596.7, |
| 3747228.7, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379559.6, 3747187.2, | 17.0, | 17.0, | 0.0); | ( 379599.4, |
| 3747182.1, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379528.0, 3747129.5, | 17.0, | 17.0, | 0.0); | ( 379645.2, |
| 3747183.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379678.1, 3747268.7, | 17.0, | 17.0, | 0.0); | ( 379687.5, |
| 3747141.5, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379728.0, 3747160.4, | 17.0, | 17.0, | 0.0); | ( 379841.9, |
| 3747187.9, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379834.7, 3747231.1, | 17.0, | 17.0, | 0.0); | ( 379835.9, |
| 3747433.8, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379790.1, 3747436.9, | 17.0, | 17.0, | 0.0); | ( 379790.7, |
| 3747506.4, 17.0, 17.0, | 0.0); |       |       |             |
| ( 379838.6, 3747509.9, | 17.0, | 17.0, | 0.0); | ( 379845.6, |
| 3747562.9, 17.0, 17.0, | 0.0); |       |       |             |

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

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

( 379789.4, 3747527.2, 17.0, 17.0, 0.0); ( 377635.4,  
3745747.0, 21.0, 21.0, 0.0);  
( 378209.5, 3746740.1, 21.0, 21.0, 2.0); ( 378248.3,  
3746798.0, 21.0, 21.0, 2.0);  
( 378254.2, 3746886.9, 21.0, 21.0, 2.0);

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL DAYS SELECTED FOR  
PROCESSING \*\*\*  
(1=YES; 0=NO)

|                     |                     |                     |       |
|---------------------|---------------------|---------------------|-------|
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 |                     |       |
| 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 | 1 1 1 |

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON  
WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED



CATEGORIES \*\*\*

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

```

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*** AERMET - VERSION 16216 ***
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13.
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ U\*

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

DATA \*\*\*

Surface file: KHR V9 ADJU\KHR v9.SFC

Met Version: 16216

Profile file: KHR V9 ADJU\KHR v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3167  
Name: UNKNOWN

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2012

Year: 2012

### First 24 hours of scalar data

|        |     |    |     |    |     |    |    |       |       |       |     |     |    |       |
|--------|-----|----|-----|----|-----|----|----|-------|-------|-------|-----|-----|----|-------|
| YR     | MO  | DY | JDY | HR | H0  | U* | W* | DT/DZ | ZICNV | ZIMCH | M-O | LEN | Z0 | BOWEN |
| ALBEDO | REF | WS | WD  | HT | REF | TA | HT |       |       |       |     |     |    |       |

\_\_\_\_\_

\_\_\_\_\_

|    |    |    |   |    |        |        |        |        |       |       |          |      |      |
|----|----|----|---|----|--------|--------|--------|--------|-------|-------|----------|------|------|
| 12 | 01 | 01 | 1 | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
|----|----|----|---|----|--------|--------|--------|--------|-------|-------|----------|------|------|

1.00      0.00      0.      7.9    283.8      2.0

|    |    |    |   |    |      |       |        |        |       |     |      |      |      |
|----|----|----|---|----|------|-------|--------|--------|-------|-----|------|------|------|
| 12 | 01 | 01 | 1 | 02 | -2.1 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 |
|----|----|----|---|----|------|-------|--------|--------|-------|-----|------|------|------|

1.00 0.53 305. 7.9 283.1 2.0

|    |    |    |   |    |      |       |        |        |       |      |      |      |      |
|----|----|----|---|----|------|-------|--------|--------|-------|------|------|------|------|
| 12 | 01 | 01 | 1 | 03 | -9.0 | 0.127 | -9.000 | -9.000 | -999. | 109. | 20.8 | 0.24 | 2.79 |
|----|----|----|---|----|------|-------|--------|--------|-------|------|------|------|------|

1.00 1.18 323. 7.9 282.5 2.0

|    |    |    |   |    |      |       |        |        |       |     |      |      |      |
|----|----|----|---|----|------|-------|--------|--------|-------|-----|------|------|------|
| 12 | 01 | 01 | 1 | 04 | -2.2 | 0.068 | -9.000 | -9.000 | -999. | 43. | 13.3 | 0.24 | 2.79 |
|----|----|----|---|----|------|-------|--------|--------|-------|-----|------|------|------|

|      |      |      |     |       |     |
|------|------|------|-----|-------|-----|
| 1.00 | 0.53 | 296. | 7.9 | 282.0 | 2.0 |
|------|------|------|-----|-------|-----|

|    |    |    |   |    |        |        |        |        |       |       |           |      |      |
|----|----|----|---|----|--------|--------|--------|--------|-------|-------|-----------|------|------|
| 12 | 01 | 01 | 1 | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -999999.0 | 0.24 | 2.79 |
|----|----|----|---|----|--------|--------|--------|--------|-------|-------|-----------|------|------|

|      |      |    |     |       |     |
|------|------|----|-----|-------|-----|
| 1.00 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
|------|------|----|-----|-------|-----|

|    |    |    |   |    |      |       |        |        |       |     |      |      |      |
|----|----|----|---|----|------|-------|--------|--------|-------|-----|------|------|------|
| 12 | 01 | 01 | 1 | 06 | -6.0 | 0.103 | -9.000 | -9.000 | -999. | 80. | 16.7 | 0.24 | 2.79 |
|----|----|----|---|----|------|-------|--------|--------|-------|-----|------|------|------|

|      |      |      |     |       |     |
|------|------|------|-----|-------|-----|
| 1.00 | 0.97 | 321. | 7.9 | 281.4 | 2.0 |
|------|------|------|-----|-------|-----|

|    |    |    |   |    |      |       |        |        |       |     |      |      |      |
|----|----|----|---|----|------|-------|--------|--------|-------|-----|------|------|------|
|    |    |    |   |    |      |       |        |        |       |     |      |      |      |
| 12 | 01 | 01 | 1 | 07 | -4.3 | 0.088 | -9.000 | -9.000 | -999. | 63. | 14.4 | 0.24 | 2.79 |

|      |      |      |     |       |     |
|------|------|------|-----|-------|-----|
| 1.00 | 0.82 | 313. | 7.9 | 280.4 | 2.0 |
|------|------|------|-----|-------|-----|

|    |    |    |   |    |      |        |        |        |       |       |          |      |      |
|----|----|----|---|----|------|--------|--------|--------|-------|-------|----------|------|------|
| 12 | 01 | 01 | 1 | 08 | 15.7 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.24 | 2.79 |
|----|----|----|---|----|------|--------|--------|--------|-------|-------|----------|------|------|

|      |      |    |     |       |     |
|------|------|----|-----|-------|-----|
| 0.55 | 0.00 | 0. | 7.9 | 281.4 | 2.0 |
|------|------|----|-----|-------|-----|

|      |      |      |   |    |       |       |        |        |       |      |        |      |      |
|------|------|------|---|----|-------|-------|--------|--------|-------|------|--------|------|------|
| 12   | 01   | 01   | 1 | 09 | 35.7  | 0.115 | 0.353  | 0.013  | 45.   | 93.  | -3.8   | 0.24 | 2.79 |
| 0.32 | 0.63 | 179. |   |    | 7.9   | 285.4 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 10 | 109.0 | 0.141 | 0.727  | 0.009  | 128.  | 127. | -2.3   | 0.24 | 2.79 |
| 0.24 | 0.70 | 170. |   |    | 7.9   | 289.2 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 11 | 164.4 | 0.149 | 1.186  | 0.005  | 370.  | 138. | -1.8   | 0.24 | 2.79 |
| 0.21 | 0.70 | 222. |   |    | 7.9   | 297.0 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 12 | 191.7 | 0.163 | 1.525  | 0.005  | 672.  | 158. | -2.1   | 0.24 | 2.79 |
| 0.20 | 0.79 | 12.  |   |    | 7.9   | 299.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 13 | 191.3 | 0.170 | 1.819  | 0.005  | 1144. | 168. | -2.3   | 0.24 | 2.79 |
| 0.20 | 0.84 | 260. |   |    | 7.9   | 300.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 14 | 161.6 | 0.344 | 1.852  | 0.005  | 1428. | 483. | -22.7  | 0.24 | 2.79 |
| 0.21 | 2.49 | 260. |   |    | 7.9   | 298.8 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 15 | 105.0 | 0.367 | 1.638  | 0.005  | 1521. | 534. | -42.8  | 0.24 | 2.79 |
| 0.24 | 2.84 | 292. |   |    | 7.9   | 293.8 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 16 | 29.7  | 0.383 | 1.079  | 0.005  | 1539. | 570. | -172.5 | 0.24 | 2.79 |
| 0.33 | 3.22 | 276. |   |    | 7.9   | 290.4 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 17 | -24.8 | 0.287 | -9.000 | -9.000 | -999. | 374. | 90.3   | 0.24 | 2.79 |
| 0.59 | 2.52 | 284. |   |    | 7.9   | 289.2 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 18 | -26.7 | 0.269 | -9.000 | -9.000 | -999. | 336. | 79.8   | 0.24 | 2.79 |
| 1.00 | 2.38 | 285. |   |    | 7.9   | 287.5 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 19 | -10.2 | 0.137 | -9.000 | -9.000 | -999. | 133. | 22.7   | 0.24 | 2.79 |
| 1.00 | 1.26 | 287. |   |    | 7.9   | 287.5 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 20 | -6.2  | 0.106 | -9.000 | -9.000 | -999. | 83.  | 17.2   | 0.24 | 2.79 |
| 1.00 | 0.99 | 303. |   |    | 7.9   | 287.0 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 21 | -7.6  | 0.117 | -9.000 | -9.000 | -999. | 96.  | 19.1   | 0.24 | 2.79 |
| 1.00 | 1.09 | 326. |   |    | 7.9   | 286.4 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 22 | -6.8  | 0.110 | -9.000 | -9.000 | -999. | 88.  | 18.0   | 0.24 | 2.79 |
| 1.00 | 1.03 | 297. |   |    | 7.9   | 285.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 23 | -19.9 | 0.200 | -9.000 | -9.000 | -999. | 214. | 43.9   | 0.24 | 2.79 |
| 1.00 | 1.79 | 290. |   |    | 7.9   | 285.9 | 2.0    |        |       |      |        |      |      |
| 12   | 01   | 01   | 1 | 24 | -19.6 | 0.196 | -9.000 | -9.000 | -999. | 209. | 42.3   | 0.24 | 2.79 |
| 1.00 | 1.76 | 282. |   |    | 7.9   | 285.9 | 2.0    |        |       |      |        |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 12 | 01 | 01 | 01 | 7.9    | 1 | -999. | -99.00 | 283.8   | 99.0   | -99.00 | -99.00 |

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

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 \*\*\* 13:59:33

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

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2

, VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 378289.83   | 3747311.07  | 0.04656b   | (13010324) | 378292.28   |
| 3747493.83  | 0.02039b    | (13010324) |            |             |
| 378289.93   | 3747408.68  | 0.02862b   | (13010324) | 378291.63   |
| 3747328.59  | 0.04207b    | (13010324) |            |             |
| 378291.42   | 3747417.90  | 0.02744b   | (13010324) | 378589.39   |
| 3747341.97  | 0.01768b    | (13010324) |            |             |
| 378519.42   | 3747305.13  | 0.02290b   | (13010324) | 378519.01   |
| 3747395.88  | 0.01877b    | (13010324) |            |             |
| 378517.98   | 3747292.17  | 0.02363b   | (13010324) | 378347.39   |
| 3747259.66  | 0.04822b    | (13010324) |            |             |
| 378291.17   | 3747266.91  | 0.06010b   | (13010324) | 378360.59   |
| 3747202.71  | 0.05596b    | (13010324) |            |             |
| 378227.93   | 3747366.41  | 0.03816b   | (13010324) | 378207.82   |
| 3747536.30  | 0.01824b    | (13010324) |            |             |
| 378313.28   | 3747203.17  | 0.07478b   | (13010324) | 378919.28   |
| 3747184.91  | 0.00965     | (13121424) |            |             |
| 378921.54   | 3747245.33  | 0.00926    | (14011424) | 378937.65   |
| 3747441.57  | 0.00775b    | (13010324) |            |             |
| 378865.93   | 3747523.67  | 0.00806b   | (13010324) | 378731.88   |
| 3747454.64  | 0.01098b    | (13010324) |            |             |
| 378976.87   | 3747269.00  | 0.00820    | (16120424) | 378875.27   |
| 3747301.16  | 0.00970     | (14011424) |            |             |
| 378922.56   | 3747028.97  | 0.01003    | (13121424) | 378056.86   |
| 3747325.10  | 0.04160b    | (13010324) |            |             |
| 379168.53   | 3747645.58  | 0.00480b   | (13010324) | 377796.45   |
| 3747904.89  | 0.00630b    | (13010324) |            |             |
| 378136.31   | 3746743.35  | 0.13085b   | (13010324) | 378268.72   |
| 3746735.61  | 0.08723b    | (13010324) |            |             |
| 378256.33   | 3746996.56  | 0.20157c   | (14011524) | 378249.36   |
| 3746847.89  | 0.26047c    | (14011524) |            |             |
| 378309.76   | 3747165.37  | 0.08935b   | (13010324) | 378513.41   |
| 3746995.01  | 0.03513     | (13121424) |            |             |
| 378126.89   | 3747243.53  | 0.10158c   | (13111624) | 378154.05   |
| 3747245.58  | 0.10955b    | (13010324) |            |             |
| 378196.98   | 3747247.62  | 0.10739b   | (13010324) | 378227.94   |
| 3747244.70  | 0.09864b    | (13010324) |            |             |
| 378273.20   | 3747244.41  | 0.07664b   | (13010324) | 378052.71   |
| 3747256.38  | 0.06234     | (13122124) |            |             |

|            |                     |                     |           |
|------------|---------------------|---------------------|-----------|
| 378289.83  | 3747311.07          | 0.04656b (13010324) | 378292.28 |
| 3747493.83 | 0.02039b (13010324) |                     |           |
| 378289.93  | 3747408.68          | 0.02862b (13010324) | 378291.63 |
| 3747328.59 | 0.04207b (13010324) |                     |           |
| 378291.42  | 3747417.90          | 0.02744b (13010324) | 378589.39 |
| 3747341.97 | 0.01768b (13010324) |                     |           |
| 378519.42  | 3747305.13          | 0.02290b (13010324) | 378519.01 |
| 3747395.88 | 0.01877b (13010324) |                     |           |
| 378517.98  | 3747292.17          | 0.02363b (13010324) | 378347.39 |
| 3747259.66 | 0.04822b (13010324) |                     |           |
| 378291.17  | 3747266.91          | 0.06010b (13010324) | 378360.59 |
| 3747202.71 | 0.05596b (13010324) |                     |           |
| 378227.93  | 3747366.41          | 0.03816b (13010324) | 378207.82 |
| 3747536.30 | 0.01824b (13010324) |                     |           |
| 378313.28  | 3747203.17          | 0.07478b (13010324) | 378919.28 |
| 3747184.91 | 0.00965 (13121424)  |                     |           |
| 378921.54  | 3747245.33          | 0.00926 (14011424)  | 378937.65 |
| 3747441.57 | 0.00775b (13010324) |                     |           |
| 378865.93  | 3747523.67          | 0.00806b (13010324) | 378731.88 |
| 3747454.64 | 0.01098b (13010324) |                     |           |
| 378976.87  | 3747269.00          | 0.00820 (16120424)  | 378875.27 |
| 3747301.16 | 0.00970 (14011424)  |                     |           |
| 378922.56  | 3747028.97          | 0.01003 (13121424)  | 378056.86 |
| 3747325.10 | 0.04160b (13010324) |                     |           |
| 379168.53  | 3747645.58          | 0.00480b (13010324) | 377796.45 |
| 3747904.89 | 0.00630b (13010324) |                     |           |
| 378129.14  | 3747249.41          | 0.09526b (13010324) | 378159.47 |
| 3747247.15 | 0.10876b (13010324) |                     |           |
| 378200.25  | 3747247.32          | 0.10666b (13010324) | 378226.05 |
| 3747247.67 | 0.09619b (13010324) |                     |           |
| 378283.74  | 3747245.23          | 0.07158b (13010324) | 378052.80 |
| 3747257.43 | 0.06184 (13122124)  |                     |           |
| 378116.42  | 3747276.78          | 0.06935b (13010324) | 378117.29 |
| 3747315.99 | 0.05123b (13010324) |                     |           |
| 378117.11  | 3747344.75          | 0.04242b (13010324) | 378120.60 |
| 3747381.70 | 0.03451b (13010324) |                     |           |
| 378121.82  | 3747450.20          | 0.02497b (13010324) | 378121.82 |
| 3747514.16 | 0.01946b (13010324) |                     |           |
| 378118.16  | 3747553.55          | 0.01699b (13010324) | 377945.41 |
| 3747434.99 | 0.02067b (13010324) |                     |           |
| 378083.80  | 3747685.98          | 0.01150b (13010324) | 378124.58 |
| 3747684.58 | 0.01168b (13010324) |                     |           |

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\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS  
 \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>  
 \*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 378084.32   | 3747702.19  | 0.01105b   | (13010324) | 378124.58   |
| 3747702.19  | 0.01117b    | (13010324) |            |             |
| 377995.02   | 3747255.00  | 0.04713    | (13122124) | 377953.54   |
| 3747255.45  | 0.03904     | (13122124) |            |             |
| 377915.91   | 3747255.30  | 0.03341    | (13122124) | 377825.47   |
| 3747276.19  | 0.02318b    | (13010324) |            |             |
| 377934.72   | 3747187.43  | 0.04325b   | (13010324) | 377997.97   |
| 3746860.90  | 0.08713c    | (13112924) |            |             |
| 377996.55   | 3746783.41  | 0.07298c   | (12122924) | 378132.80   |
| 3746732.61  | 0.11395b    | (13010324) |            |             |
| 378131.09   | 3746451.89  | 0.02063b   | (13010324) | 378131.09   |
| 3746579.33  | 0.03585b    | (13010324) |            |             |
| 378131.15   | 3746322.30  | 0.01367b   | (13010324) | 378138.09   |
| 3746150.82  | 0.00901b    | (13010324) |            |             |
| 378001.74   | 3746015.86  | 0.00671b   | (13010324) | 378290.15   |
| 3746060.70  | 0.00740b    | (13010324) |            |             |
| 378102.45   | 3745973.71  | 0.00638b   | (13010324) | 378136.71   |
| 3745937.76  | 0.00602b    | (13010324) |            |             |
| 378064.09   | 3745931.01  | 0.00590b   | (13010324) | 378057.50   |
| 3745971.00  | 0.00630b    | (13010324) |            |             |
| 378020.77   | 3745925.59  | 0.00580b   | (13010324) | 378097.98   |
| 3745892.30  | 0.00557b    | (13010324) |            |             |
| 377945.73   | 3745896.16  | 0.00542b   | (13010324) | 377910.99   |
| 3745974.33  | 0.00604b    | (13010324) |            |             |
| 377899.16   | 3745974.33  | 0.00601b   | (13010324) | 377886.24   |
| 3745890.54  | 0.00525b    | (13010324) |            |             |
| 378905.58   | 3746007.82  | 0.00454b   | (13010324) | 378849.35   |
| 3745966.07  | 0.00454b    | (13010324) |            |             |
| 378850.56   | 3745926.26  | 0.00433b   | (13010324) | 378904.85   |
| 3745929.40  | 0.00417b    | (13010324) |            |             |
| 378905.09   | 3745968.24  | 0.00435b   | (13010324) | 378792.65   |
| 3745935.43  | 0.00458b    | (13010324) |            |             |
| 378835.36   | 3745898.03  | 0.00425b   | (13010324) | 378898.10   |
| 3745978.14  | 0.00442b    | (13010324) |            |             |
| 378905.58   | 3746139.80  | 0.00526b   | (13010324) | 378989.79   |

|            |                     |                               |
|------------|---------------------|-------------------------------|
| 3746015.30 | 0.00425b (13010324) |                               |
| 378927.53  | 3745927.95          | 0.00409b (13010324) 378785.65 |
| 3745990.20 | 0.00492b (13010324) |                               |
| 378968.55  | 3745925.05          | 0.00395b (13010324) 378822.57 |
| 3745867.87 | 0.00414b (13010324) |                               |
| 378827.29  | 3746174.68          | 0.00595b (13010324) 378905.44 |
| 3746200.40 | 0.00563b (13010324) |                               |
| 378801.57  | 3746268.53          | 0.00691b (13010324) 378917.46 |
| 3746278.55 | 0.00606b (13010324) |                               |
| 378990.94  | 3746201.07          | 0.00512b (13010324) 378819.28 |
| 3746393.77 | 0.00793b (13010324) |                               |
| 378915.13  | 3746385.08          | 0.00682b (13010324) 378802.58 |
| 3746327.97 | 0.00746b (13010324) |                               |
| 378914.07  | 3746458.46          | 0.00738b (13010324) 378821.19 |
| 3746549.14 | 0.00952b (13010324) |                               |
| 378821.59  | 3746480.77          | 0.00879b (13010324) 378912.35 |
| 3746735.38 | 0.00933b (13010324) |                               |
| 378824.34  | 3746712.99          | 0.01108b (13010324) 378922.96 |
| 3746779.78 | 0.00938c (14010224) |                               |
| 378695.85  | 3746773.10          | 0.01605b (13010324) 378680.53 |
| 3746992.74 | 0.01890 (13121424)  |                               |
| 378853.81  | 3747315.72          | 0.01002b (13010324) 378645.51 |
| 3747261.85 | 0.01722b (13010324) |                               |
| 378640.80  | 3747343.96          | 0.01555b (13010324) 378507.67 |
| 3747524.45 | 0.01423b (13010324) |                               |
| 378555.93  | 3747501.76          | 0.01386b (13010324) 378866.77 |
| 3747547.93 | 0.00785b (13010324) |                               |
| 378884.04  | 3747599.56          | 0.00724b (13010324) 378918.04 |
| 3747592.76 | 0.00695b (13010324) |                               |
| 378917.34  | 3747541.50          | 0.00732b (13010324) 378840.80 |
| 3747574.80 | 0.00791b (13010324) |                               |
| 378988.66  | 3747636.53          | 0.00606b (13010324) 378848.12 |
| 3747632.69 | 0.00732b (13010324) |                               |
| 378840.97  | 3747611.24          | 0.00758b (13010324) 378928.50 |
| 3747713.24 | 0.00606b (13010324) |                               |
| 378927.11  | 3747552.13          | 0.00714b (13010324) 378917.20 |
| 3747527.25 | 0.00742b (13010324) |                               |
| 379036.52  | 3747187.14          | 0.00771 (13121424) 379090.75  |
| 3747248.44 | 0.00680 (13121424)  |                               |
| 379099.40  | 3747185.96          | 0.00692 (13121424) 379204.32  |
| 3747183.21 | 0.00584 (13121424)  |                               |
| 379162.67  | 3747246.48          | 0.00607 (13121424) 379279.38  |
| 3747178.89 | 0.00522 (13121424)  |                               |
| 379301.78  | 3747271.63          | 0.00491 (13121424) 379235.37  |
| 3747244.91 | 0.00545 (13121424)  |                               |

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

\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 , VOL2  
 , VOL3 , VOL4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) |
|-------------|-------------|------------|------------|-------------|
| Y-COORD (M) | CONC        | (YYMMDDHH) |            |             |
| 379422.01   | 3747246.05  | 0.00423    | (13121424) | 379458.45   |
| 3747191.27  | 0.00408     | (13121424) |            |             |
| 379434.32   | 3747101.49  | 0.00422    | (13121424) | 379478.24   |
| 3747231.81  | 0.00395     | (13121424) |            |             |
| 379500.69   | 3747247.50  | 0.00383    | (13121424) | 379596.74   |
| 3747228.67  | 0.00344     | (13121424) |            |             |
| 379559.58   | 3747187.16  | 0.00360    | (13121424) | 379599.40   |
| 3747182.10  | 0.00344     | (13121424) |            |             |
| 379527.96   | 3747129.48  | 0.00374    | (13121424) | 379645.25   |
| 3747183.54  | 0.00326     | (13121424) |            |             |
| 379678.07   | 3747268.74  | 0.00312    | (13121424) | 379687.49   |
| 3747141.55  | 0.00311     | (14010324) |            |             |
| 379728.03   | 3747160.37  | 0.00298    | (14010324) | 379841.94   |
| 3747187.89  | 0.00265     | (13121424) |            |             |
| 379834.70   | 3747231.09  | 0.00267    | (13121424) | 379835.94   |
| 3747433.82  | 0.00256     | (13121424) |            |             |
| 379790.14   | 3747436.93  | 0.00267    | (16120424) | 379790.73   |
| 3747506.45  | 0.00264     | (16120424) |            |             |
| 379838.60   | 3747509.86  | 0.00252    | (16120424) | 379845.57   |
| 3747562.92  | 0.00247     | (16120424) |            |             |
| 379789.40   | 3747527.20  | 0.00263    | (16120424) | 377635.37   |
| 3745747.00  | 0.00386b    | (13010324) |            |             |
| 378209.49   | 3746740.07  | 0.12350b   | (13010324) | 378248.32   |
| 3746798.00  | 0.18000c    | (14011524) |            |             |
| 378254.25   | 3746886.86  | 0.25060    | (14011424) |             |

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 \*\*\* 13:59:33

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

\*\*\* THE SUMMARY OF HIGHEST 24-HR

RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

| GROUP ID                      | AVERAGE CONC | DATE       | RECEPTOR |
|-------------------------------|--------------|------------|----------|
| (XR, YR, ZELEV, ZHILL, ZFLAG) | OF TYPE      | (YYMMDDHH) |          |
|                               | GRID-ID      |            |          |
| -----                         |              |            |          |
| -----                         |              |            |          |

ALL HIGH 1ST HIGH VALUE IS 0.26047c ON 14011524: AT ( 378249.36,  
3746847.89, 21.00, 21.00, 2.00) DC

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

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Sequoia Commerce Center\1579 \*\*\* 09/11/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 13:59:33

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

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1474 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 1223 Calm Hours Identified  
  
A Total of 251 Missing Hours Identified ( 0.57 Percent)

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



```
***** WARNING MESSAGES *****
ME W186      70      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
ME W187      70      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

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

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**APPENDIX 3.4:**  
**SCAQMD AMICUS BRIEF**

**S219783**

**IN THE SUPREME COURT OF CALIFORNIA**

---

**SIERRA CLUB, REVIVE THE SAN JOAQUIN, and  
LEAGUE OF WOMEN VOTERS OF FRESNO,**

**Plaintiffs and Appellants,**

**v.**

**COUNTY OF FRESNO,**

**Defendant and Respondent,**

**and,**

**FRIANT RANCH, L.P.,**

**Real Party in Interest and Respondent.**

SUPREME COURT  
FILED

APR 13 2015

Frank A. McGuire Clerk  
Deputy

---

After a Published Decision by the Court of Appeal, filed May 27, 2014  
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno  
Case No. 11CECG00726  
Honorable Rosendo A. Pena, Jr.

---

**APPLICATION OF THE SOUTH COAST AIR QUALITY  
MANAGEMENT DISTRICT FOR LEAVE TO FILE  
BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY  
AND [PROPOSED] BRIEF OF *AMICUS CURIAE***

---

Kurt R. Wiese, General Counsel (SBN 127251)  
\*Barbara Baird, Chief Deputy Counsel (SBN 81507)  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 Copley Drive, Diamond Bar, CA 91765  
Telephone: 909-396-2302; Facsimile: 909-396-2961  
Email: [bbaird@aqmd.gov](mailto:bbaird@aqmd.gov)  
Counsel for [Proposed] Amicus Curiae,  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

**RECEIVED**

**APR - 8 2015**

**CLERK SUPREME COURT**

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**TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE  
SUPREME COURT:**

**APPLICATION FOR LEAVE TO FILE *AMICUS CURIAE* BRIEF**

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this amicus brief in support of neither party.

**HOW THIS BRIEF WILL ASSIST THE COURT**

SCAQMD's proposed amicus brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

- 1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
- 2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review de novo.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

#### **STATEMENT OF INTEREST OF *AMICUS CURIAE***

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

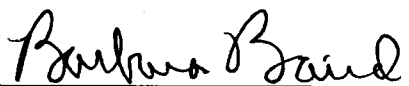
## **CERTIFICATION REGARDING AUTHORSHIP AND FUNDING**

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

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## BRIEF OF AMICUS CURIAE

### SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, “[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project.” (*Laurel Heights Improvement Assn. v. Regents of the Univ of Cal.* (1988) 47 Cal.3d 376, 405 [*“Laurel Heights I”*]) Accordingly, “an agency must use its best efforts to find out and disclose all that it reasonably can.” (*Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 428 (quoting CEQA Guidelines § 15144)<sup>1</sup>). However, “[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible.” (*Association of Irrigated Residents v. County of Madera* (2003) 107 Cal.App.4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project’s pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

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<sup>1</sup> The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, *et seq.*

or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

## **ARGUMENT**

### **I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.**

#### **A. Air Quality Regulatory Background**

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality

management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP* (Feb. 2013), <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “chapter 7” hyperlink; pp 7-1, 7-3 (last visited Apr. 1, 2015).) The SCAQMD's jurisdiction includes over 16 million residents and has the worst or nearly the worst air pollution levels in the country for ozone and fine particulate matter. (SCAQMD, *Final 2012 AQMP* (Feb. 2013), <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “Executive Summary” hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called “criteria” document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called “criteria pollutants.” EPA must then establish “national ambient air quality standards” at levels “requisite to protect public health”,



allowing “an adequate margin of safety.” (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), <http://www.epa.gov/air/criteria.html> (last updated Oct. 21, 2014).)<sup>2</sup>

Under the Clean Air Act, EPA sets emission standards for motor vehicles and “nonroad engines” (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as “stationary sources.” The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified “major” stationary sources use technology to achieve the “lowest achievable emission rate,” and to control minor stationary sources as

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<sup>2</sup> Particulate matter (PM) is further divided into two categories: fine particulate or PM<sub>2.5</sub> (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM<sub>10</sub>) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), <http://www.epa.gov/airquality/particulatepollution/> (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called “hazardous air pollutants” calling for EPA to establish “maximum achievable control technology” (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as “toxic air contaminants” (TACs) which are subject to two state-required programs. The first program requires “air toxics control measures” for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare “health risk assessments” for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as “significant,” the facility must implement a “risk reduction plan” to bring its risk levels below “significant” levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; *Western Oil & Gas Assn. v. Monterey Bay Unified APCD* (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, *Rule 1401-New Source Review of Toxic Air Contaminants*, <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiv>; then follow “Rule 1401” hyperlink (last visited Apr. 1, 2015).)

## **B. The SCAQMD's Role Under CEQA**

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the “lead agency” that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called “responsible” agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to “trustee agencies” and agencies “with jurisdiction by law” including “authority over resources which may be affected by the project.” (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.<sup>3</sup>

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<sup>3</sup> The SCAQMD's CEQA program for its rules is a “Certified Regulatory Program” under which it prepares a “functionally equivalent” document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.<sup>4</sup> SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a “responsible agency” for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, *Rule 1303(a)(1) – Requirements*, <http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiii>; then follow “Rule 1303” hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with “jurisdiction by law” over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

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<sup>4</sup> The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, <http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015>; then follow “16. Lead Agency Projects and Environmental Documents Received by SCAQMD” hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, <http://www.arb.ca.gov/regact/diesltac/diesltac.htm>; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, *supra*, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

**II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT’S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.**

Numerous cases hold that courts do not review the correctness of an EIR’s conclusions but rather its sufficiency as an informative document. (*Laurel Heights 1*, *supra*, 47 Cal.3d at p. 392; *Citizens of Goleta Valley v.*

*Bd. of Supervisors* (1990) 52 Cal.3d 553, 569; *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must “draw[] a line that divides *sufficient* discussions from those that are *insufficient*.” (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4<sup>th</sup> 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that “[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis.” (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that “the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible.” Case law reflects this: “Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible.” (*Association of Irrigated Residents v. County of Madera, supra*, 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hard-and-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be “feasible”; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a “health risk assessment” before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the “maximally exposed individual” (worker and residence exposures). (*See, e.g.*, SCAQMD Rule 1401(c)(8); 1401(d)(1), *supra* note 15.) In order to perform this analysis, it

is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588)*, pp. 11-16; (last visited Apr. 1, 2015) [http://www.aqmd.gov/home/library/documents-support-material](http://www.aqmd.gov/home/library/documents-support-material;); "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, <http://www.aqmd.gov/home/forms>; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants<sup>5</sup>, such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, <http://www.epa.gov/airquality/ozonepollution/> (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, <http://www.epa.gov/ttnamti1/archive/cpreldoc.html> (last visited Apr. 1, 2015).) NO<sub>x</sub> and VOC are known as “precursors” of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, *Health Effects of Ozone in the General Population*, Figure 9, <http://www.epa.gov/apti/ozonehealth/population.html#levels> (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO<sub>x</sub> by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, *Final 2012 AQMP* (February 2013), <http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan>; then follow “Appendix V: Modeling & Attainment Demonstrations” hyperlink,

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<sup>5</sup> See discussion of types of pollutants, *supra*, Part I.A.



pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO<sub>x</sub> or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO<sub>x</sub> and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts “internal bank” of emission reductions. This CEQA analysis accounted for essentially *all* the increases in emissions due to new or modified sources in the District between 2010 and 2030.<sup>6</sup> The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO<sub>x</sub> (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).<sup>7</sup> (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System* (see hyperlink in fn 6) at p. 4.1-35, Table 4.1-29.)

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<sup>6</sup> (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6*, <http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-february-4-2011>; the follow “26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System” (last visited April 1, 2015).)

<sup>7</sup> The SCAQMD was able to establish the location of future NO<sub>x</sub> and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO<sub>x</sub> or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO<sub>x</sub> with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; <https://www.epa.gov/ttnamti1/archive/cpreldoc.html>; then search “Guideline on Ozone Monitoring Site Selection” click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA “significance” threshold for NO<sub>x</sub> and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>; then follow “SCAQMD Air Quality Significance Thresholds” hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a “major” stationary source for “extreme” ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA “significance” finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO<sub>x</sub> or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD’s thresholds of significance may determine

that many projects have “significant” air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter (PM<sub>2.5</sub>)<sup>8</sup>, another “criteria” pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of PM<sub>2.5</sub>. (California Air Resources Board, *Health Impacts Analysis: PM Premature Death Relationship*, [http://www.arb.ca.gov/research/health/pm-mort/pm-mort\\_arch.htm](http://www.arb.ca.gov/research/health/pm-mort/pm-mort_arch.htm) (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, *supra*, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.)) Again, this project involved large amounts of additional PM<sub>2.5</sub> in the District, up to 2.82 tons/day (5,650 lbs/day of PM<sub>2.5</sub>, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.))

However, the primary author of the CARB methodology has reported that this PM<sub>2.5</sub> health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties.<sup>9</sup> (SCAQMD, *Final Subsequent Mitigated Negative Declaration for: Warren*

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<sup>8</sup> SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for “PM<sub>2.5</sub>” or particulate matter less than 2.5 microns in diameter.

<sup>9</sup> Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

*E&P, Inc. WTU Central Facility, New Equipment Project* (certified July 19, 2011), <http://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011>; then follow “Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project” hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small PM<sub>2.5</sub> increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated PM<sub>2.5</sub> emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (*Id.* at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (*Id.* at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the “normal” “existing conditions” CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results.<sup>10</sup>

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<sup>10</sup> Whether a particular study would result in “informational value” is a part of deciding whether it is “feasible.” CEQA defines “feasible” as “capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case.<sup>11</sup> Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, <http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm> (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

### **III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.**

#### **A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document**

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

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technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

<sup>11</sup> In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, “a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts.” (*Vineyard Area Citizens v. City of Rancho Cordova*, *supra*, 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency’s action de novo under the “independent judgment” test. (*Id.*) On the other hand, courts review factual disputes only for substantial evidence, thereby “accord[ing] greater deference to the agency’s substantive factual conclusions.” (*Id.*)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project’s impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR’s analysis is sufficient to meet CEQA’s informational purposes,<sup>12</sup> while Friant Ranch contends that the substantial evidence standard applies to this question.

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<sup>12</sup> Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)

SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law,<sup>13</sup> containing two levels of inquiry that should be judged by different standards.<sup>14</sup>

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

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<sup>13</sup> Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

<sup>14</sup> Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in *Laurel Heights I* supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its *sufficiency as an informative document*." (*Laurel Heights I, supra*, 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in *Vineyard Area Citizens v. City of Rancho Cordova, supra*, 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (*Id.* at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (*Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.



(*Uphold Our Heritage v. Town of Woodside* (2007) 147 Cal.App.4th 587, 598-99; *Center for Biological Diversity v. County of San Bernardino* (2010) 185 Cal.App.4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses “in sufficient detail to enable meaningful participation and criticism by the public. ‘[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.’” (*Laurel Heights I, supra*, 47 Cal.3d at p. 405 (quoting *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority, supra*, 57 Cal.4th 439, 448, 457:

whether “existing conditions” baseline would be misleading or uninformative judged by substantial evidence standard.<sup>15</sup>)

If the lead agency’s determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA’s information disclosure provisions, since it would be infeasible to provide additional information. This Court’s decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency’s finding that “the precise parameters of future herbicide use could not be predicted.” *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4<sup>th</sup> 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact “substantial”. (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

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<sup>15</sup> The substantial evidence standard recognizes that the courts “have neither the resources nor the scientific expertise” to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra*, 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA's informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a "project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary." (*Laurel Heights I, supra*, 47 Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA "does not require a lead agency to conduct every test. . . recommended or demanded by commenters."].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA's informational purposes.<sup>16</sup>

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<sup>16</sup> We recognize that there is case law stating that the substantial evidence standard applies to "challenges to the scope of an EIR's analysis of a topic" as well as the methodology used and the accuracy of the data relied on in the document "because these types of challenges involve factual questions." (*Bakersfield Citizens for Local Control v. City of Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the *Bakersfield* court expressly rejected an argument that a claimed "omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project." *Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> at p. 1208. And the *Bakersfield* court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. *Bakersfield, supra*, 124 Cal.App.4<sup>th</sup> at p. 1220. Therefore, the court must not have interpreted this question as one of the "scope of the analysis" to be judged by the substantial evidence standard.

**B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.**

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra*, at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR . . . ." (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (*Id.*) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can.'" (*Id.*, [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (*Vineyard Area Citizens, supra*, at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (*Vineyard Area Citizens, supra*, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, “Environmental Checklist Form.”<sup>17</sup>) In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency’s noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts’ proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA’s prohibition on courts interpreting its provisions “in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines.” (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra*, at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project’s significant impacts on human health. However, except in certain particular circumstances,<sup>18</sup> neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law’s requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe “health and safety problems caused by {a project’s} physical changes”].) Accordingly, courts must interpret CEQA as a whole to

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<sup>17</sup> Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

<sup>18</sup> E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).

determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement.<sup>19</sup> Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

#### **IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS**

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4<sup>th</sup> 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck*, 198 Cal.App.4th at p. 959 (citations omitted).<sup>20</sup>

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<sup>19</sup> We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131), or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

<sup>20</sup> Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta*, (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)<sup>21</sup>

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districts should be considered “state agencies” for purposes of the requirement to consult with “trustee agencies” as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere “local agencies” whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (*Orange County Air Pollution Control District v. Public Util. Com.* (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id.* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process.

<sup>21</sup> In *Schenck*, the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (*Schenck*, 198 Cal.App.4th 949, 960.) We disagree with the *Schenck* court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district’s published CEQA guidelines for significance. (*Id.*, 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district’s published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those



Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (*Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (*Id.* at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra*, 91 Cal.App.4th 1344, 1369-1371.)

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guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River, supra*, 70 Cal.App.4th 482, 492.

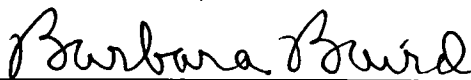
## CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is “sufficient as an informational document” is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

DATED: April 3, 2015

Respectfully submitted,

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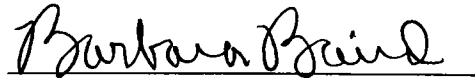
*SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT*

## **CERTIFICATE OF WORD COUNT**

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015

Respectfully submitted,

  
Barbara Baird

## **PROOF OF SERVICE**

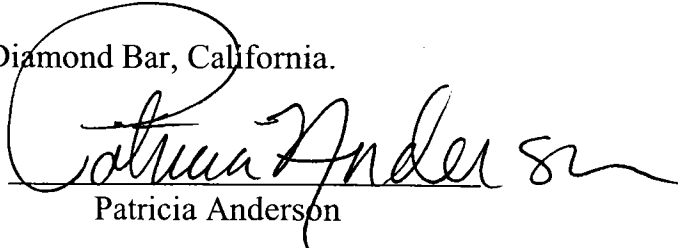
I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as **APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND [PROPOSED] BRIEF OF *AMICUS CURIAE*** by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

**BY MAIL:** I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

  
Patricia Anderson

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