

## APPENDIX A: AIR QUALITY IMPACT ANALYSIS

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# **Glen Helen Specific Plan Amendment**

## **AIR QUALITY IMPACT ANALYSIS**

### **COUNTY OF SAN BERNARDINO**

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## **LIST OF ABBREVIATED TERMS**

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| %                                | Percent                                                                        |
| °F                               | Degrees Fahrenheit                                                             |
| (1)                              | Reference                                                                      |
| µg/m <sup>3</sup>                | Microgram per Cubic Meter                                                      |
| <i>1992 CO Plan</i>              | <i>1992 Federal Attainment Plan for Carbon Monoxide</i>                        |
| <i>1993 CEQA Handbook</i>        | <i>SCAQMD's CEQA Air Quality Handbook (1993)</i>                               |
| <i>2020-2045 RTP/SCS</i>         | <i>2020-2045 Regional Transportation Plan/Sustainable Communities Strategy</i> |
| AB 2595                          | California Clean Air Act                                                       |
| AQIA                             | Air Quality Impact Analysis                                                    |
| AQMP                             | Air Quality Management Plan                                                    |
| BACT                             | Best Available Control Technology                                              |
| C <sub>2</sub> H <sub>3</sub> Cl | Vinyl Chloride                                                                 |
| 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>                                             |
| County                           | County of San Bernardino                                                       |
| CO                               | Carbon Monoxide                                                                |
| COHb                             | Carboxyhemoglobin                                                              |
| EC                               | Elemental Carbon                                                               |
| EIR                              | Environmental Impact Report                                                    |
| EMFAC                            | Emissions FAcTtor Model                                                        |
| EPA                              | Environmental Protection Agency                                                |
| EV                               | Electric Vehicle                                                               |
| GHG                              | Greenhouse Gas                                                                 |
| 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>       |
| MICR                      | Maximum Individual Cancer Risk                                  |
| MM                        | Mitigation Measures                                             |
| mph                       | Miles Per Hour                                                  |
| 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                                               |
| ODC                       | Ozone Depleting Compounds                                       |
| Pb                        | Lead                                                            |
| PM                        | Particulate Matter                                              |
| 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              |
| ppm                       | Parts Per Million                                               |
| Project                   | Glen Helen Specific Plan Amendment                              |
| RECLAIM                   | Regional Clean Air Incentives Market                            |
| ROG                       | Reactive Organic Gases                                          |
| SB                        | Senate Bill                                                     |
| 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  |
| VMT             | Vehicle Miles Traveled     |
| VOC             | Volatile Organic Compounds |
| vph             | Vehicles Per Hour          |

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## EXECUTIVE SUMMARY

### ES.1 SUMMARY OF FINDINGS

The results of this *Glen Helen Specific Plan Amendment 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 *Guidelines for Implementation of the California Environmental Quality Act* (CEQA Guidelines) (1). Table ES-1 shows the findings of significance for each potential air quality impact under the California Environmental Quality Act (CEQA).

**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              | 3.12           | <i>Less Than Significant</i> | <i>n/a</i> |
| Odors                            | 3.13           | <i>Less Than Significant</i> | <i>n/a</i> |
| Cumulative Impacts               | 3.14           | <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 SCAQMD.

### **SCAQMD RULE 1113**

This rule serves to limit the VOC content of architectural coatings used on projects in the South Coast Air Basin. This rule applies to 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 South Coast Air Basin 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 1401**

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 United States (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 nitrogen oxides (NO<sub>x</sub>) and particulate matter emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities. The rule imposes a “Warehouse Points Compliance Obligation” (WPCO) on warehouse operators. Operators satisfy the WPCO by accumulating “Warehouse Actions and Investments to Reduce Emissions Points” (WAIRE Points) in a given 12-month period. WAIRE Points are awarded by implementing measures to reduce emissions listed on the WAIRE Menu, or by implementing a custom WAIRE Plan approved by the SCAQMD.

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# 1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Glen Helen Specific Plan Amendment Project (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

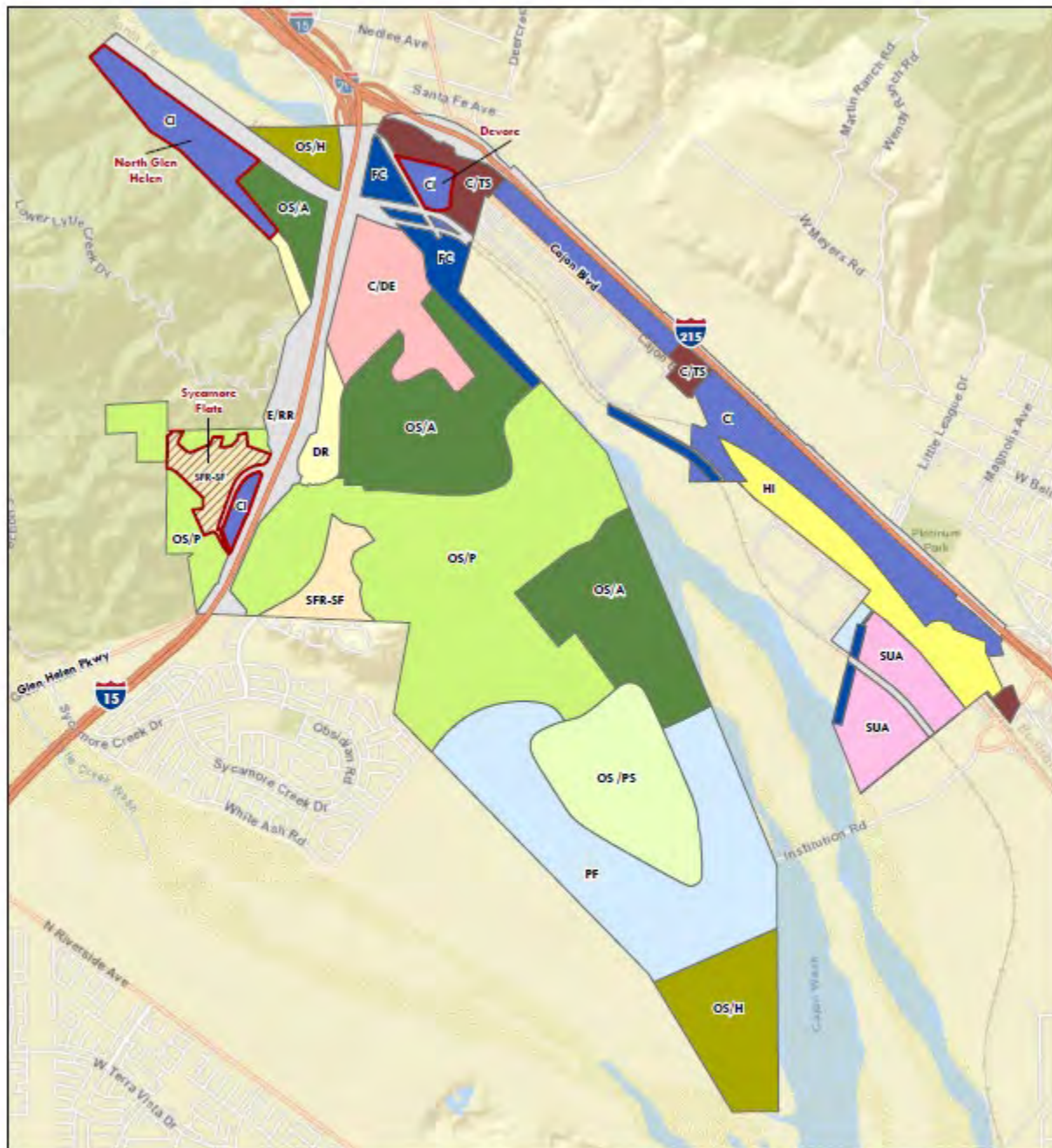
The proposed Project is located at located south of the Interstate 215 (I-215) and Interstate 15 interchange in the County of San Bernardino.

## 1.2 PROJECT DESCRIPTION

The Project consists of three out of the six Subareas located within the Glen Helen Specific Plan (GHSP) including: North Glen Helen, Devore, and Sycamore Flats. The proposed amendment would rezone 79 acres of Destination Recreation (DR), 31.8 acres of Commercial/Trailer Services (C/TS) and 48.7 acres of Single-Family Residential (SFR-SF) to Corridor Industrial (CI). Of this area, 79 acres would be used for truck trailer parking. The GHSP Land Use Map is shown on Exhibit 1-A.

- Within the North Glen Helen (Subarea A), the proposed amendment would rezone 79 acres of Destination Recreation (DR) to Corridor Industrial (CI) to be used for truck trailer parking. (2,912 new actual trips compared to the adopted GHSP)
- Within the Devore (Subarea B), the proposed amendment would rezone 19.2 acres of Commercial/Traveler Services (C/TS) to 19.2 acres designated for Corridor Industrial (CI). (-10,972 new actual trips compared to the adopted GHSP)
- Within the Sycamore Flats (Subarea C), the proposed amendment would rezone 12.6 acres of Commercial/Traveler Services (C/TS) to Corridor Industrial (CI) and 48.7 acres designated for Single-Family Residential (SFR-SF) would be modified to include a Corridor Industrial (CI) Overlay. (-6,795 actual new trips compared to the adopted GHSP)

# EXHIBIT 1-A: GLEN HELEN SPECIFIC PLAN LAND USE MAP



## Glen Helen Specific Plan

### Proposed Use Designations

- Commercial/Destination Entertainment (C/DE)
- Commercial/Traveler Services (C/TS)
- Corridor Industrial (CI)
- Destination Recreation (DR)
- Existing Road/Railroad (E/RR)
- Road Control (FC)
- Heavy Industrial (HI)
- Open Space/Passive Recreation (OS/P)
- Open Space/Active Recreation (OS/A)
- Open Space/Habitat Preserve (OS/H)
- Open Space/Public Safety (OS/PS)
- Public Facility (PF)
- Single Family Residential Sycamore Flats (SFR-SF)
- Special Use Areas (SUA)
- Proposed Land Use Changes

- Heavy Industrial (HI)
- Open Space/Passive Recreation (OS/P)
- Open Space/Active Recreation (OS/A)
- Open Space/Habitat Preserve (OS/H)
- Open Space/Public Safety (OS/PS)
- Public Facility (PF)
- Single Family Residential Sycamore Flats (SFR-SF)
- Special Use Areas (SUA)
- Proposed Land Use Changes

- Corridor Industrial Overlay (CI)





## EXHIBIT 1-B: PROJECT STUDY AREA



### LEGEND:

-  Glen Helen Specific Plan Boundary
-  North Glen Helen (Subarea A)
-  Devore (Subarea B)
-  Sycamore Flats (Subarea C)

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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

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (2). 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 stated, the Project site is located within the SCAB, a 6,745-square-mile subregion of the SCAQMD, which includes the non-desert 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, and the San Diego Air Basin to the south.

### 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 mid 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 nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (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 (3):

**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. |
| SO <sub>2</sub>    | SO <sub>2</sub> is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Coal or oil burning power plants and industries,                                                                                  | A few minutes of exposure to low levels of SO <sub>2</sub> can result in airway constriction in some                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                   | Sources                                                                                       | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | 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> ). | refineries, diesel engines.                                                                   | <p>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> |
| 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                                                             | Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming | Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sources                                                                                                                                                                                                                            | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|                    | <p>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 nitrogen oxide 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 a regional monitoring station.</p> | equipment, and residential heating.                                                                                                                                                                                                | <p>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>     | <p>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 months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.</p>                                                                                                                                                                                                                                                                                                                                 | <p>Formed when reactive organic gases (ROG) and NO<sub>x</sub> react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and</p> | <p>Individuals exercising outdoors, children, and people with pre-existing 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 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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sources                                                                                                                                                                                                          | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                   | storage, and pesticides.                                                                                                                                                                                         | <p>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 live 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 reduced visibility (haze) which is caused by the scattering of light and consequently the significant reduction in 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 | 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> , organics). Incomplete combustion of any fuel. | 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 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sources                                                                                                                                                                                                                                                                         | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <p>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> | 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>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 children without asthma, 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 form O<sub>3</sub> to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include</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. Fuels are made up of organic chemicals. All of these products can | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Criteria Pollutant | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sources                                                                                        | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | 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) are used interchangeably.                                                                                                                                                                                                                                                             | release organic compounds while you are using them, and, to some degree, when they are stored. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ROG                | Similar to VOC, ROG's 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's 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) are used 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 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 operational activities such as metal processing or Pb acid battery manufacturing. As such, | 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.<br><br>Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the |

| Criteria Pollutant | Description                                                                                                                                              | Sources                                                                                               | Health Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | the Project is not anticipated to generate a quantifiable amount of Pb emissions.                                                                        |                                                                                                       | 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 (4). | Odors can come from many sources including animals, human activities, industry, nature, 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. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (5).

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, and are 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> are not to be exceeded. 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, a State Implementation Plan (SIP) is drafted by CARB. 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 (6).



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                        | 12.0 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 (PM10, PM2.5, 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 PM10, 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 PM2.5, 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  $25^\circ\text{C}$  and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of  $25^\circ\text{C}$  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 PM2.5 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 PM2.5 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 PM10 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  $\text{SO}_2$  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  $\text{SO}_2$  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 seven of the most common air pollutants: CO, Pb, O<sub>3</sub>, PM<sub>10</sub>, 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 (7). 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 (8). 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

-- = The national 1-hour O<sub>3</sub> standard was revoked effective June 15, 2005.

<sup>1</sup>Because the proposed Project is not anticipated to generate a quantifiable quantity of Pb emissions, this threshold is not included in the impact analysis presented in this report.

## 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 information regarding air quality conditions to Southern California residents. The Project site is located within SRA 34. Within SRA 34, the SCAQMD Central San Bernardino Valley 1 monitoring station, located approximately 8.26 miles southwest of the Project site, is the nearest long-term air quality monitoring station and reports air quality statistics for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>2.5</sub> and PM<sub>10</sub>.

The most recent three (3) years of data available is shown in 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 Project site. Data for O<sub>3</sub>, CO, NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> for 2020 through 2022 was obtained from the SCAQMD Air Quality Data Tables (9). 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.

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



**TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2020-2022**

| Pollutant                                                  | Standard                | Year  |       |       |
|------------------------------------------------------------|-------------------------|-------|-------|-------|
|                                                            |                         | 2020  | 2021  | 2022  |
| O <sub>3</sub>                                             |                         |       |       |       |
| Maximum Federal 1-Hour Concentration (ppm)                 |                         | 0.151 | 0.125 | 0.144 |
| Maximum Federal 8-Hour Concentration (ppm)                 |                         | 0.111 | 0.103 | 0.107 |
| Number of Days Exceeding State 1-Hour Standard             | > 0.09 ppm              | 56    | 44    | 44    |
| Number of Days Exceeding State/Federal 8-Hour Standard     | > 0.070 ppm             | 89    | 83    | 70    |
| CO                                                         |                         |       |       |       |
| Maximum Federal 1-Hour Concentration                       | > 35 ppm                | 1.7   | 1.9   | 1.6   |
| Maximum Federal 8-Hour Concentration                       | > 20 ppm                | 1.2   | 1.4   | 1.0   |
| NO <sub>2</sub>                                            |                         |       |       |       |
| Maximum Federal 1-Hour Concentration                       | > 0.100 ppm             | 0.066 | 0.067 | 0.069 |
| Annual Federal Standard Design Value                       |                         | 0.019 | 0.019 | 0.018 |
| PM <sub>10</sub>                                           |                         |       |       |       |
| Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> ) | > 150 µg/m <sup>3</sup> | 61    | 73    | 62    |
| Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )        |                         | 35.8  | 32.1  | 31.5  |
| 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>  | 6     | 4     | 8     |
| PM <sub>2.5</sub>                                          |                         |       |       |       |
| Maximum Federal 24-Hour Concentration (µg/m <sup>3</sup> ) | > 35 µg/m <sup>3</sup>  | 46.1  | 55.1  | 38.1  |
| Annual Federal Arithmetic Mean (µg/m <sup>3</sup> )        | > 12 µg/m <sup>3</sup>  | 11.95 | 12.07 | 10.89 |
| Number of Days Exceeding Federal 24-Hour Standard          | > 35 µg/m <sup>3</sup>  | 1     | 2     | 1     |

ppm = Parts Per Million

µg/m<sup>3</sup> = Microgram per Cubic MeterSource: 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 (10). 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 (11). 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 will 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) (12) (13). 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 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 (14) (10).

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 an 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 (15). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (16):

### **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 EV supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, upright 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 reused 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:
  - a) Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
  - b) 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).
  - c) 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 combined 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).
  - d) 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 at 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 projected 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 (17). 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

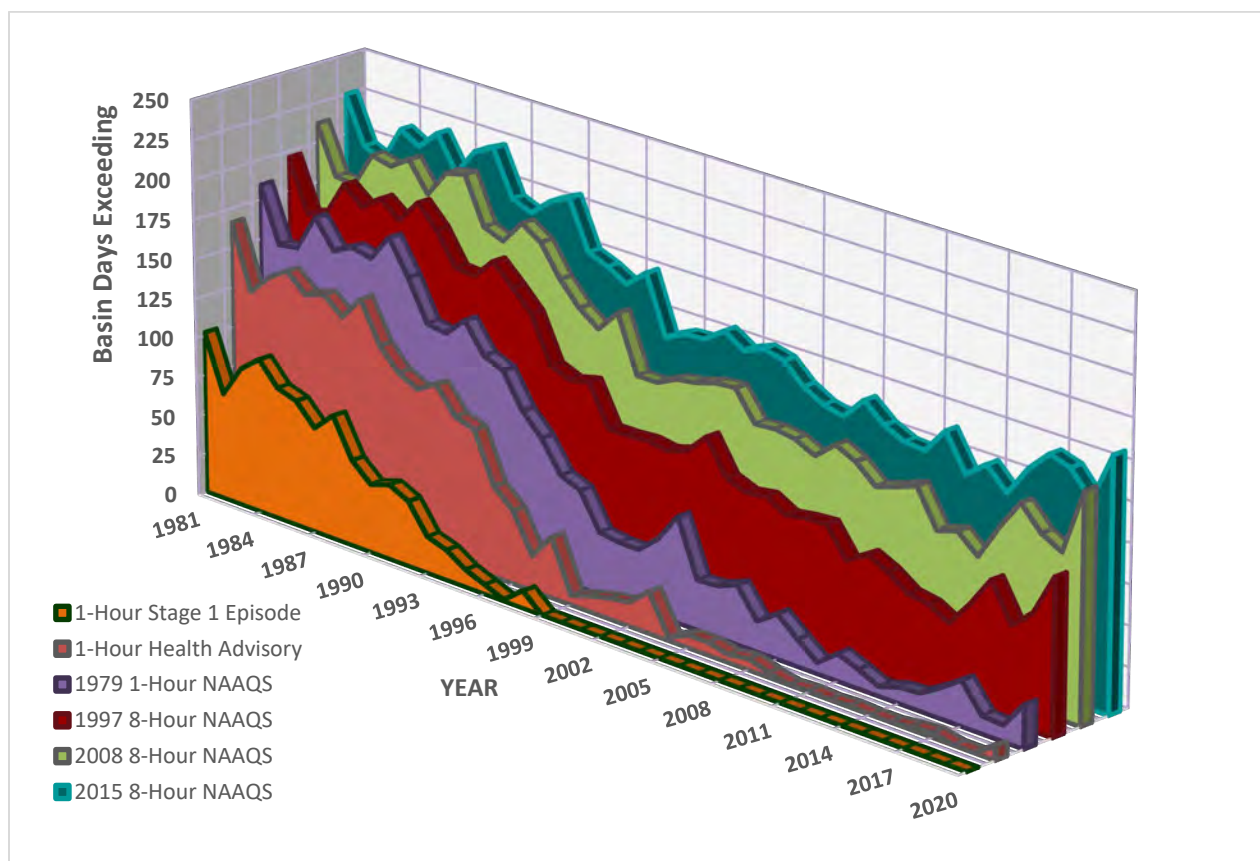
The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD 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. 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” (18).

Emissions of  $O_3$ ,  $NO_x$ , VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (19). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase,  $NO_x$  and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles.  $NO_x$  emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy.  $O_3$  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,  $O_3$  levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding,  $O_3$  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 (20).

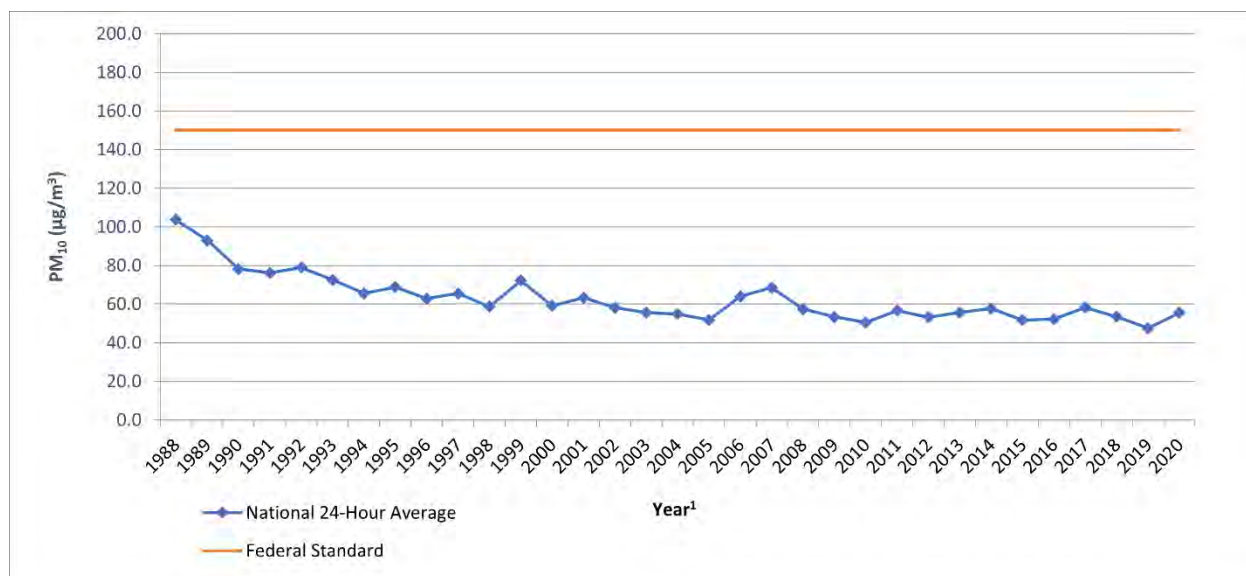


TABLE 2-5: SCAB O<sub>3</sub> TREND

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

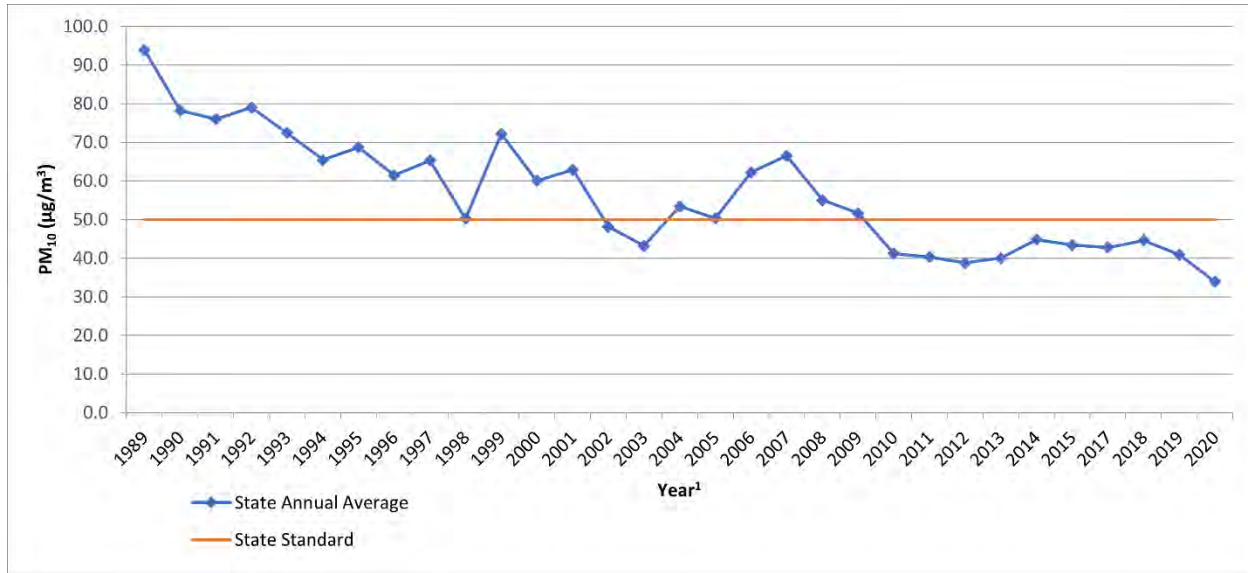
The overall trends of PM<sub>10</sub> and PM<sub>2.5</sub> levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM<sub>10</sub> have remained somewhat constant in the SCAB and direct emissions of PM<sub>2.5</sub> have decreased slightly since 1975. Area wide sources (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, the 24-hour national annual average concentration for PM<sub>10</sub> decreased by approximately 46%, from 103.7 microgram per cubic meter (µg/m<sup>3</sup>) in 1988 to 55.5 µg/m<sup>3</sup> in 2020 (21). 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 µg/m<sup>3</sup> in 1989 to 33.9 µg/m<sup>3</sup> in 2020 (21). 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: 2020 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1988-2020)

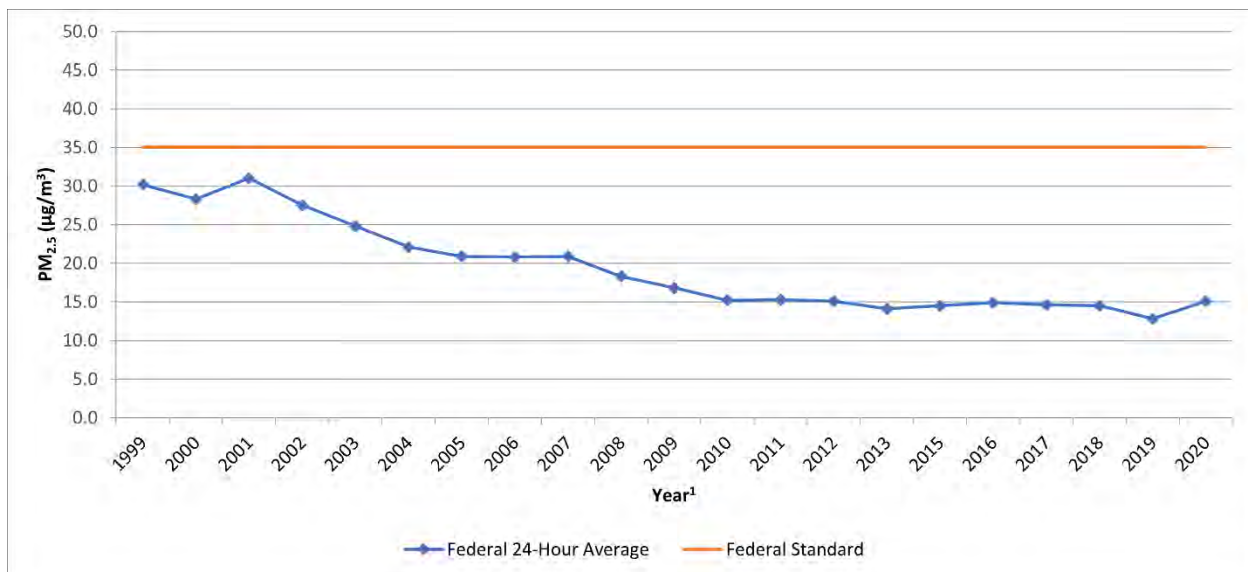
<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

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

Source: 2020 CARB, iADAM: Top Four Summary: PM<sub>10</sub> 24-Hour Averages (1988-2020)

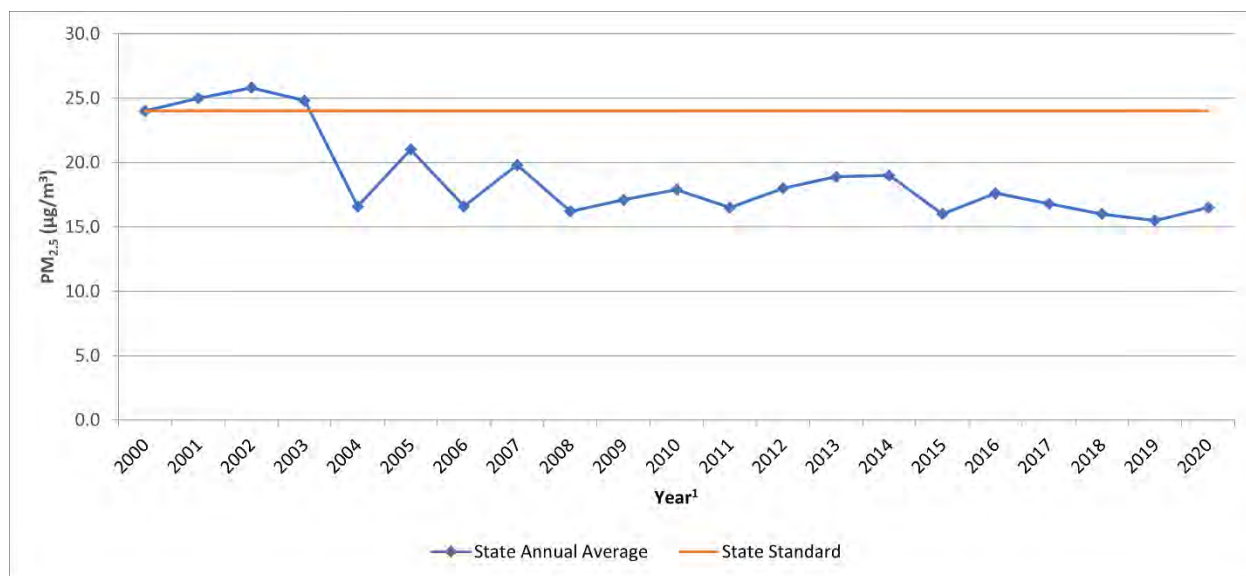
<sup>1</sup> Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

Tables 2-8 and 2-9 show the most recent annual and 24-hour average PM<sub>2.5</sub> concentrations in the SCAB. Overall, the national and state annual average concentrations have decreased by almost 50% and 31% respectively (21). 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: 2020 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2020)

<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: 2020 CARB, iADAM: Top Four Summary: PM<sub>2.5</sub> 24-Hour Averages (1999-2020)

<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.

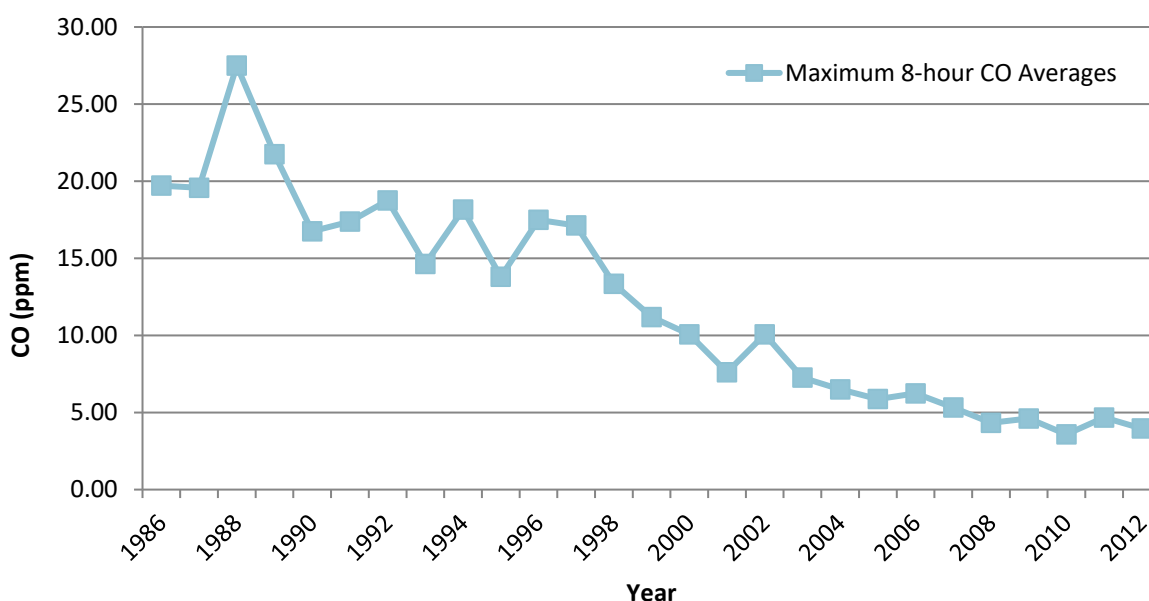
While the 2012 AQMP PM<sub>10</sub> attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured PM<sub>2.5</sub>.

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 (22).

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 (23). 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 (24).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (21). 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.

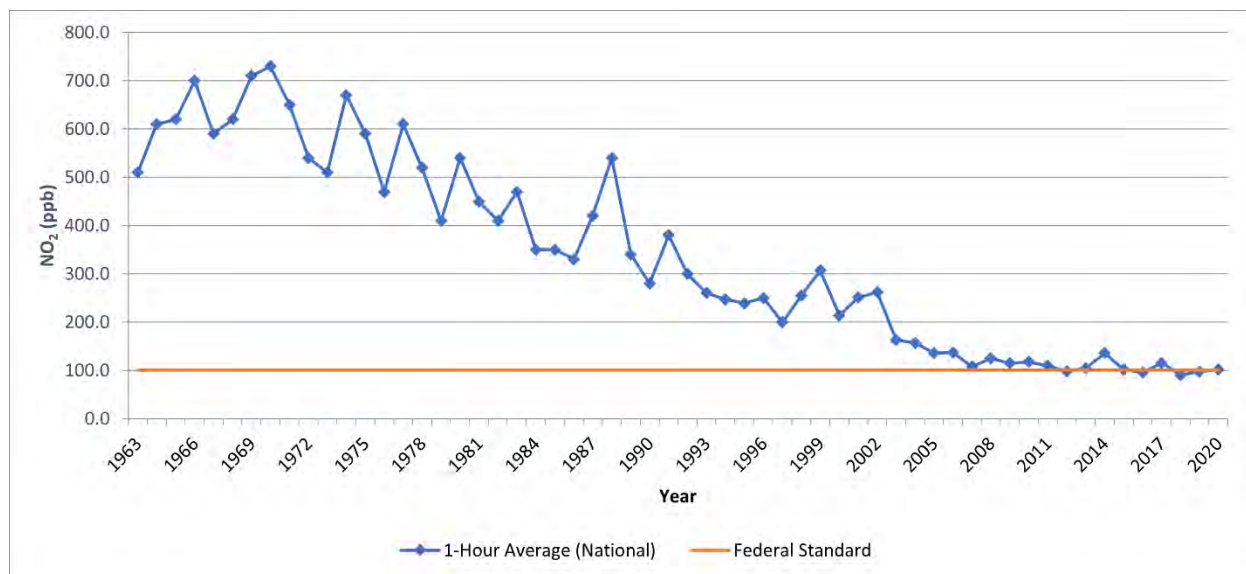
Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's *CEQA Air Quality Handbook (1993)* (1993 *CEQA Handbook*) (25). The single threshold of significance used to assess Project direct and cumulative 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 District'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 (21). Over the last 50 years, NO<sub>2</sub> values have decreased significantly; the peak 1-hour national and state averages for 2020 is approximately 80% 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 (26). The new standard is just barely exceeded in the SCAQMD. 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



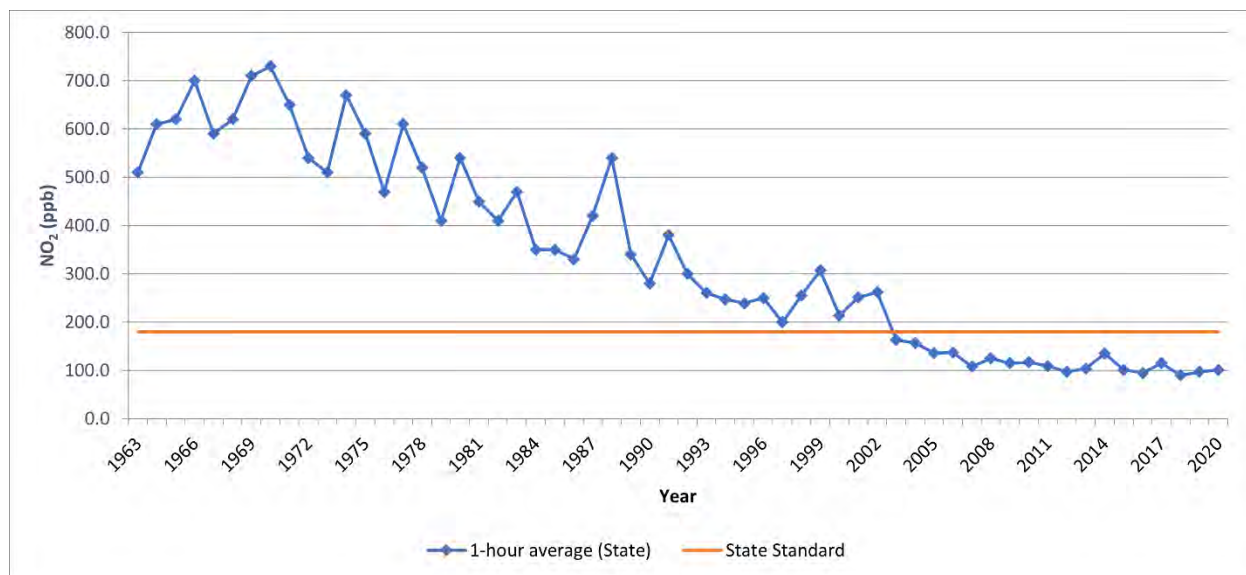
of the overall O<sub>3</sub> control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO<sub>x</sub> emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

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



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

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



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

### 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 (27) 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.

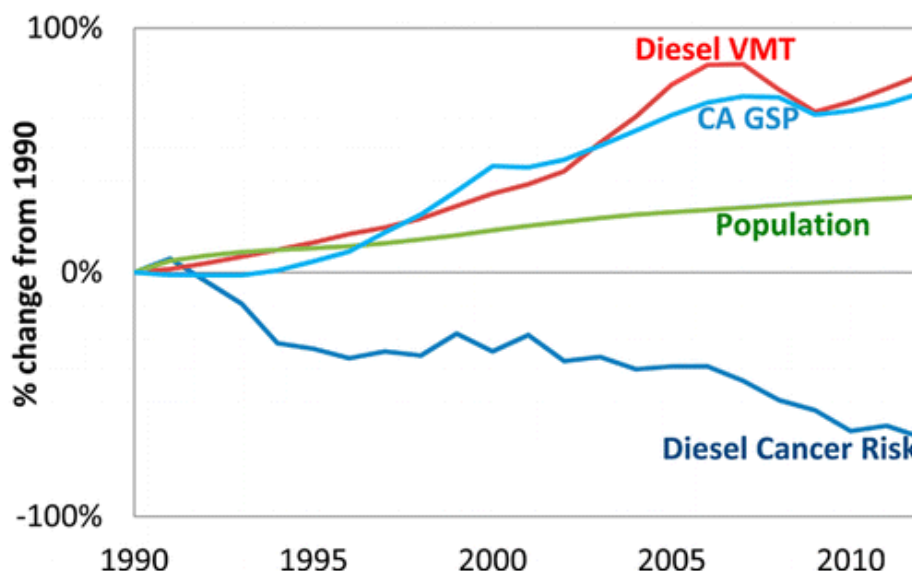
### MOBILE SOURCE TACs

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 (27).

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 in Exhibit 2-B. With the implementation of these diesel-related control regulations, CARB expects a DPM decline of 71% for 2000-2020.

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<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 have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, CARB Drayage Truck Regulation (28), CARB statewide On-road Truck and Bus Regulation (29), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (30). 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 (31). The final report for the MATES V study was published August 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 (32).

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 288 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, DPM is the largest contributor to overall air toxics cancer risk. However, the average levels of DPM 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. 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 it 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 *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 (1):

- 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 also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (33). 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: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS**

| Pollutant         | Regional Construction Threshold | Regional Operational 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                     |
| Pb                | 3 lbs/day                       | 3 lbs/day                       |

lbs/day = Pounds Per Day

### **3.3 MODELS EMPLOYED TO ANALYZE AIR QUALITY**

#### **3.3.1 CalEEMod**

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

In August 2023, the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts including the SCAQMD, released the latest version of the California Emissions Estimator Model (CalEEMod) version 2022.1.1.22. 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 greenhouse gas (GHG) emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (34). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 3.1 through 3.7.

### **3.4 CONSTRUCTION EMISSIONS**

#### **3.4.1 CONSTRUCTION ACTIVITIES**

Construction activities associated with the Project would 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

#### **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. This analysis assumes that earthwork activities are expected to balance on site and no import or export of soils would be required.

#### **ON-ROAD TRIPS**

Construction generates on-road vehicle emissions from vehicle usage for workers, vendors, and haul trucks commuting to and from the site. The number of worker, vendor, and hauling trips are presented below in Table 3-2. Worker trips are based on CalEEMod defaults. 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.

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

| Construction Activity | Worker Trips Per Day | Vendor Trips Per Day | Hauling Trips Per Day |
|-----------------------|----------------------|----------------------|-----------------------|
| Demolition            | 15                   | 15                   | 0                     |
| Site Preparation      | 18                   | 9                    | 0                     |
| Grading               | 20                   | 24                   | 0                     |
| Building Construction | 736                  | 239                  | 0                     |
| Paving                | 15                   | 0                    | 0                     |
| Architectural Coating | 147                  | 0                    | 0                     |

### 3.4.2 CONSTRUCTION DURATION

For purposes of analysis, construction of the Project is expected to commence in September 2024 and would last through December 2040. 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   | Working Days |
|-----------------------|------------|------------|--------------|
| Demolition            | 9/2/2024   | 10/22/2025 | 298          |
| Site Preparation      | 10/23/2025 | 6/30/2026  | 179          |
| Grading               | 7/1/2026   | 4/7/2028   | 463          |
| Building Construction | 4/10/2028  | 12/29/2040 | 3,320        |
| Paving                | 9/27/2039  | 12/29/2040 | 329          |
| Architectural Coating | 9/27/2039  | 12/29/2040 | 329          |

### 3.4.3 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 3-4 is assumed to operate up to a total of eight (8) hours per day, or more than

<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.

two-thirds of the period during which construction activities are allowed pursuant to the County code.

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

| Construction Activity | Equipment <sup>1</sup>    | 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             |
| 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 during the site preparation and grading phases of Project construction.

### 3.4.4 CONSTRUCTION EMISSIONS SUMMARY

#### IMPACTS WITHOUT MITIGATION

The estimated maximum daily construction emissions without mitigation are summarized in Table 3-5. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction would not exceed criteria pollutant thresholds established by the SCAQMD.

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

| Year   | Emissions (lbs/day) |                 |       |                 |                  |                   |
|--------|---------------------|-----------------|-------|-----------------|------------------|-------------------|
|        | VOC                 | NO <sub>x</sub> | CO    | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Summer |                     |                 |       |                 |                  |                   |
| 2024   | 2.71                | 25.50           | 23.30 | 0.04            | 1.39             | 1.06              |
| 2025   | 2.48                | 22.80           | 21.40 | 0.04            | 1.25             | 0.93              |
| 2026   | 3.91                | 35.00           | 32.40 | 0.07            | 7.74             | 4.39              |
| 2027   | 3.34                | 28.80           | 30.10 | 0.07            | 4.41             | 2.27              |
| 2028   | 4.13                | 27.20           | 63.70 | 0.08            | 12.10            | 3.17              |
| 2029   | 3.95                | 18.40           | 60.50 | 0.08            | 12.00            | 3.15              |
| 2030   | 3.49                | 17.50           | 57.30 | 0.08            | 12.00            | 3.13              |
| 2031   | 3.32                | 16.90           | 54.40 | 0.08            | 12.00            | 3.12              |
| 2032   | 3.20                | 16.10           | 52.20 | 0.08            | 12.00            | 3.10              |
| 2033   | 3.10                | 15.60           | 50.00 | 0.08            | 11.90            | 3.08              |
| 2034   | 2.95                | 14.90           | 48.20 | 0.08            | 11.90            | 3.07              |
| 2035   | 2.90                | 14.50           | 46.30 | 0.08            | 11.90            | 3.05              |
| 2036   | 2.82                | 14.20           | 44.70 | 0.08            | 11.90            | 3.04              |
| 2037   | 2.72                | 13.80           | 43.50 | 0.08            | 11.90            | 3.03              |
| 2038   | 2.63                | 13.30           | 42.30 | 0.08            | 11.90            | 3.03              |
| 2039   | 31.40               | 19.50           | 58.30 | 0.10            | 14.10            | 3.62              |
| 2040   | 31.30               | 19.30           | 57.40 | 0.10            | 14.10            | 3.62              |
| Winter |                     |                 |       |                 |                  |                   |
| 2024   | 2.70                | 25.50           | 23.00 | 0.04            | 1.39             | 1.06              |
| 2025   | 4.13                | 37.90           | 33.60 | 0.05            | 1.25             | 0.93              |
| 2026   | 3.91                | 35.00           | 32.10 | 0.07            | 7.74             | 4.39              |
| 2027   | 3.33                | 28.80           | 29.80 | 0.07            | 4.41             | 2.27              |
| 2028   | 3.95                | 27.30           | 52.40 | 0.08            | 12.10            | 3.17              |
| 2029   | 3.48                | 19.00           | 50.00 | 0.08            | 12.00            | 3.15              |
| 2030   | 3.35                | 18.20           | 47.70 | 0.08            | 12.00            | 3.13              |
| 2031   | 3.18                | 17.30           | 45.40 | 0.08            | 12.00            | 3.12              |
| 2032   | 3.07                | 16.70           | 43.40 | 0.08            | 12.00            | 3.10              |
| 2033   | 2.96                | 15.90           | 41.80 | 0.08            | 11.90            | 3.08              |
| 2034   | 2.85                | 15.60           | 40.50 | 0.08            | 11.90            | 3.07              |
| 2035   | 2.80                | 14.80           | 38.80 | 0.08            | 11.90            | 3.05              |
| 2036   | 2.72                | 14.40           | 37.80 | 0.08            | 11.90            | 3.04              |

| Year                           | Emissions (lbs/day) |                 |              |                 |                  |                   |
|--------------------------------|---------------------|-----------------|--------------|-----------------|------------------|-------------------|
|                                | VOC                 | NO <sub>x</sub> | CO           | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| 2037                           | 2.63                | 14.10           | 36.60        | 0.08            | 11.90            | 3.03              |
| 2038                           | 2.59                | 13.90           | 36.00        | 0.08            | 11.90            | 3.03              |
| 2039                           | 31.30               | 20.20           | 50.50        | 0.10            | 14.10            | 3.62              |
| 2040                           | 31.20               | 19.60           | 49.90        | 0.10            | 14.10            | 3.62              |
| <b>Maximum Daily Emissions</b> | <b>31.40</b>        | <b>37.90</b>    | <b>63.70</b> | <b>0.10</b>     | <b>14.10</b>     | <b>4.39</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 OPERATIONAL EMISSIONS

Operational activities associated with the Project would 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
- On-Site Cargo Handling Equipment Emissions
- Stationary Source Emissions

#### 3.5.1 AREA SOURCE EMISSIONS

##### ARCHITECTURAL COATINGS

Over a period of time, the Project buildings would require maintenance and would 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 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

#### COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

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 excluded from the evaluation of significance. Electricity and natural gas usage associated with the Project was calculated by CalEEMod using default parameters.

### 3.5.3 MOBILE SOURCE EMISSIONS

The Project related air quality emissions derive primarily from vehicle trips associated with the Project, including employee trips, truck trips, and commercial trips to and from the site associated with the proposed uses. Trip characteristics available from the *Glen Helen Specific Plan Amendment Traffic Impact Analysis* were utilized in this analysis (35).

#### APPROACH FOR ANALYSIS OF THE PROJECT

In order to determine emissions from passenger car vehicles, CalEEMod defaults for trip length and trip purpose were utilized. Default vehicle trip lengths for primary trips will be populated using data from the local metropolitan planning organizations/Regional Transportation Planning Agencies (MPO/RTPA). Trip type percentages and trip lengths provided by MPO/RTPAs truncate data at their demonstrative borders. 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. In order to account for emissions generated by passenger cars, the fleet mix in Table 3-6 was utilized.

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

| Subarea | Land Use        | % Vehicle Type |       |        |        |       |
|---------|-----------------|----------------|-------|--------|--------|-------|
|         |                 | LDA            | LDT1  | LDT2   | MDV    | MCY   |
| A       | Parking Lot     | 51.54%         | 3.26% | 26.50% | 16.60% | 2.10% |
| B       | Industrial Park | 51.54%         | 3.26% | 26.50% | 16.60% | 2.10% |
| C       | Industrial Park | 51.54%         | 3.26% | 26.50% | 16.60% | 2.10% |

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod

<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.

percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

To determine emissions from trucks for the proposed industrial uses, for Subareas B and C the analysis incorporated the SCAQMD recommended truck trip length of 15.3 miles for 2-axle (LHDT1, LHDT2), 14.2 miles for 3-axle (MHDT) trucks, and 39.9 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages. As such the trip length function for Subareas B and C has been conservatively calculated to 29.93 miles and 29.95 miles, respectively, with an assumption of 100% primary trips for the proposed industrial land uses. This trip length assumption is higher than the CalEEMod defaults for trucks. Because the truck trailer parking lot in Subarea A is ancillary to a nearby use, the truck trip length for Subarea A was conservatively estimated at 10 miles, with an assumption of 100% primary trips. The truck fleet mix is estimated by rationing the trip rates for each truck type based on information provided by the SCAQMD recommended truck mix, by axle type. 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 (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the fleet mix in Table 3-7 was utilized.

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

| Subarea | Land Use        | % Vehicle Type |       |        |        |
|---------|-----------------|----------------|-------|--------|--------|
|         |                 | LHDT1          | LHDT2 | MHDT   | HHDT   |
| A       | Parking Lot     | 21.65%         | 5.81% | 33.26% | 39.28% |
| B       | Industrial Park | 17.28%         | 4.63% | 17.81% | 60.27% |
| C       | Industrial Park | 17.31%         | 4.64% | 17.72% | 60.33% |

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 brake and tire wear particulates. The emissions estimate for travel on paved roads was calculated using CalEEMod.

#### **3.5.4 ON-SITE CARGO HANDLING EQUIPMENT SOURCE 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, on-site modeled operational equipment includes up to two (2) 200 horsepower (hp), diesel-powered cargo handling equipment pieces operating at 8 hours a day<sup>8</sup> for 365 days of the year for Subarea B and up to five (5) 200 horsepower (hp), diesel-powered cargo handling equipment pieces operating at 8

<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.

<sup>8</sup> Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

hours a day<sup>9</sup> for 365 days of the year for Subarea C. Appendix 3.5 contains detailed emission calculations for on-site cargo handling equipment.

### 3.5.5 STATIONARY SOURCES

The proposed Project was conservatively assumed to include installation of one (1), 300-horsepower diesel-powered fire pump operating for up to 1 hour per day, 1 day per week for up to 50 hours per year for maintenance and testing purposes for Subareas B and C. Emissions associated with the stationary diesel-powered emergency fire pumps were calculated using CalEEMod.

### 3.5.6 OPERATIONAL EMISSIONS SUMMARY

#### PROPOSED PROJECT EMISSIONS

Operational activities for summer and winter scenarios are presented in Table 3-8. It should be noted that the Approved GHSP Emissions presented in Table 3-8 include emissions from mobile sources only, as identified in the Glen Helen Specific Plan Draft Environmental Impact Report (36), are conservatively presented for mobile sources only. Emissions resulting from other sources, including electrical generation, natural gas, landscape maintenance, and wood stoves are expected to be less than those presented in the draft EIR due to more stringent building codes and regulations that will be in place at the time of Project buildout. Detailed operation model outputs for the Project are presented in Appendices 3.2, 3.3, and 3.4 for Subareas A, B, and C, respectively. As indicated, Project net emissions would not exceed SCAQMD regional thresholds of significance for any pollutants.

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

| Subarea | Source                           | Emissions (lbs/day) |                 |        |                 |                  |                   |
|---------|----------------------------------|---------------------|-----------------|--------|-----------------|------------------|-------------------|
|         |                                  | VOC                 | NO <sub>x</sub> | CO     | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Summer  |                                  |                     |                 |        |                 |                  |                   |
| A       | Mobile Source                    | 4.49                | 39.20           | 86.30  | 0.53            | 40.90            | 11.00             |
|         | Area Source                      | 0.53                | 0.00            | 0.00   | 0.00            | 0.00             | 0.00              |
|         | Energy Source                    | 0.00                | 0.00            | 0.00   | 0.00            | 0.00             | 0.00              |
|         | Subarea A Subtotal               | 5.02                | 39.20           | 86.30  | 0.53            | 40.90            | 11.00             |
| B       | Mobile Source                    | 3.04                | 22.80           | 49.60  | 0.33            | 24.40            | 6.64              |
|         | Area Source                      | 12.50               | 0.15            | 18.20  | 0.00            | 0.03             | 0.02              |
|         | Energy Source                    | 0.17                | 3.08            | 2.59   | 0.02            | 0.23             | 0.23              |
|         | Stationary Source                | 0.98                | 2.75            | 2.51   | 0.00            | 0.14             | 0.14              |
|         | On-Site Cargo Handling Equipment | 0.23                | 0.75            | 32.89  | 0.00            | 0.06             | 0.05              |
|         | Subarea B Subtotal               | 16.92               | 29.53           | 105.79 | 0.35            | 24.86            | 7.08              |

<sup>9</sup> Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

| Subarea                                                  | Source                           | Emissions (lbs/day) |                 |                  |                 |                  |                   |
|----------------------------------------------------------|----------------------------------|---------------------|-----------------|------------------|-----------------|------------------|-------------------|
|                                                          |                                  | VOC                 | NO <sub>x</sub> | CO               | SO <sub>x</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| C                                                        | Mobile Source                    | 9.69                | 72.80           | 157.00           | 1.05            | 77.40            | 21.10             |
|                                                          | Area Source                      | 39.80               | 0.49            | 58.10            | 0.00            | 0.10             | 0.08              |
|                                                          | Energy Source                    | 0.54                | 9.84            | 8.27             | 0.06            | 0.75             | 0.75              |
|                                                          | Stationary Source                | 0.98                | 2.75            | 2.51             | 0.00            | 0.14             | 0.14              |
|                                                          | On-Site Cargo Handling Equipment | 0.59                | 1.88            | 82.22            | 0.00            | 0.15             | 0.14              |
|                                                          | <b>Subarea C Subtotal</b>        | <b>51.60</b>        | <b>87.76</b>    | <b>308.10</b>    | <b>1.11</b>     | <b>78.54</b>     | <b>22.21</b>      |
| <b>Project Maximum Daily Emissions</b>                   |                                  | <b>73.54</b>        | <b>156.49</b>   | <b>500.19</b>    | <b>1.99</b>     | <b>144.30</b>    | <b>40.29</b>      |
| <i>Approved GHSP Mobile Source Emissions<sup>A</sup></i> |                                  | <i>2,246.70</i>     | <i>950.10</i>   | <i>10,056.50</i> | <i>71.30</i>    | <i>101.40</i>    | <i>27.53</i>      |
| <b>Net Emissions (Proposed – Existing)</b>               |                                  | <b>-2,173.16</b>    | <b>-793.61</b>  | <b>-9,556.31</b> | <b>-69.31</b>   | <b>42.90</b>     | <b>12.76</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                                                   |                                  |                     |                 |                  |                 |                  |                   |
| A                                                        | Mobile Source                    | 4.30                | 41.40           | 73.50            | 0.58            | 40.90            | 11.00             |
|                                                          | Area Source                      | 0.53                | 0.00            | 0.00             | 0.00            | 0.00             | 0.00              |
|                                                          | Energy Source                    | 0.00                | 0.00            | 0.00             | 0.00            | 0.00             | 0.00              |
|                                                          | <b>Subarea A Subtotal</b>        | <b>4.83</b>         | <b>41.40</b>    | <b>73.50</b>     | <b>0.58</b>     | <b>40.90</b>     | <b>11.00</b>      |
| B                                                        | Mobile Source                    | 2.74                | 22.13           | 39.25            | 0.31            | 24.32            | 6.60              |
|                                                          | Area Source                      | 9.48                | 0.00            | 0.00             | 0.00            | 0.00             | 0.00              |
|                                                          | Energy Source                    | 0.17                | 3.08            | 2.59             | 0.02            | 0.23             | 0.23              |
|                                                          | Stationary Source                | 0.98                | 2.75            | 2.51             | 0.00            | 0.14             | 0.14              |
|                                                          | On-Site Cargo Handling Equipment | 0.23                | 0.75            | 32.89            | 0.00            | 0.06             | 0.05              |
|                                                          | <b>Subarea B Subtotal</b>        | <b>13.60</b>        | <b>28.71</b>    | <b>77.24</b>     | <b>0.33</b>     | <b>24.75</b>     | <b>7.02</b>       |
| C                                                        | Mobile Source                    | 9.35                | 76.50           | 133.00           | 1.02            | 77.40            | 21.10             |
|                                                          | Area Source                      | 30.30               | 0.00            | 0.00             | 0.00            | 0.00             | 0.00              |
|                                                          | Energy Source                    | 0.54                | 9.84            | 8.27             | 0.06            | 0.75             | 0.75              |
|                                                          | Stationary Source                | 0.98                | 2.75            | 2.51             | 0.00            | 0.14             | 0.14              |
|                                                          | On-Site Cargo Handling Equipment | 0.59                | 1.88            | 82.22            | 0.00            | 0.15             | 0.14              |
|                                                          | <b>Subarea C Subtotal</b>        | <b>41.76</b>        | <b>90.97</b>    | <b>226.00</b>    | <b>1.08</b>     | <b>78.44</b>     | <b>22.13</b>      |
| <b>Project Maximum Daily Emissions</b>                   |                                  | <b>60.19</b>        | <b>161.08</b>   | <b>376.74</b>    | <b>1.99</b>     | <b>144.09</b>    | <b>40.15</b>      |
| <i>Approved GHSP Mobile Source Emissions<sup>A</sup></i> |                                  | <i>2,246.70</i>     | <i>950.10</i>   | <i>10,056.50</i> | <i>71.30</i>    | <i>101.40</i>    | <i>27.51</i>      |
| <b>Net Emissions (Proposed – Existing)</b>               |                                  | <b>-2,186.51</b>    | <b>-789.02</b>  | <b>-9,679.76</b> | <b>-69.31</b>   | <b>42.69</b>     | <b>12.64</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 3.2.

<sup>A</sup> Source: Glen Helen Specific Plan Draft Environmental Impact Report. PM<sub>2.5</sub> emissions estimated based on the ratio of PM<sub>2.5</sub> to PM<sub>10</sub> in CalEEMod.

## 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>10</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* (37).

### 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 (38)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered. For the operational LST analysis, separate CalEEMod runs were prepared with reduced trip lengths to account for emissions that would occur on-site only.

### 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. For operations, the

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<sup>10</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."

analysis considered the worst-case on-site operational emissions that would occur during the Project's opening year.

A ground level release height and a 1 meter (approximately 3.28 feet) initial vertical dimension (sigma z) were utilized for construction-related 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 exhaust emissions of 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 Fontana 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 (38).*" 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.

## PROJECT-RELATED RECEPTORS

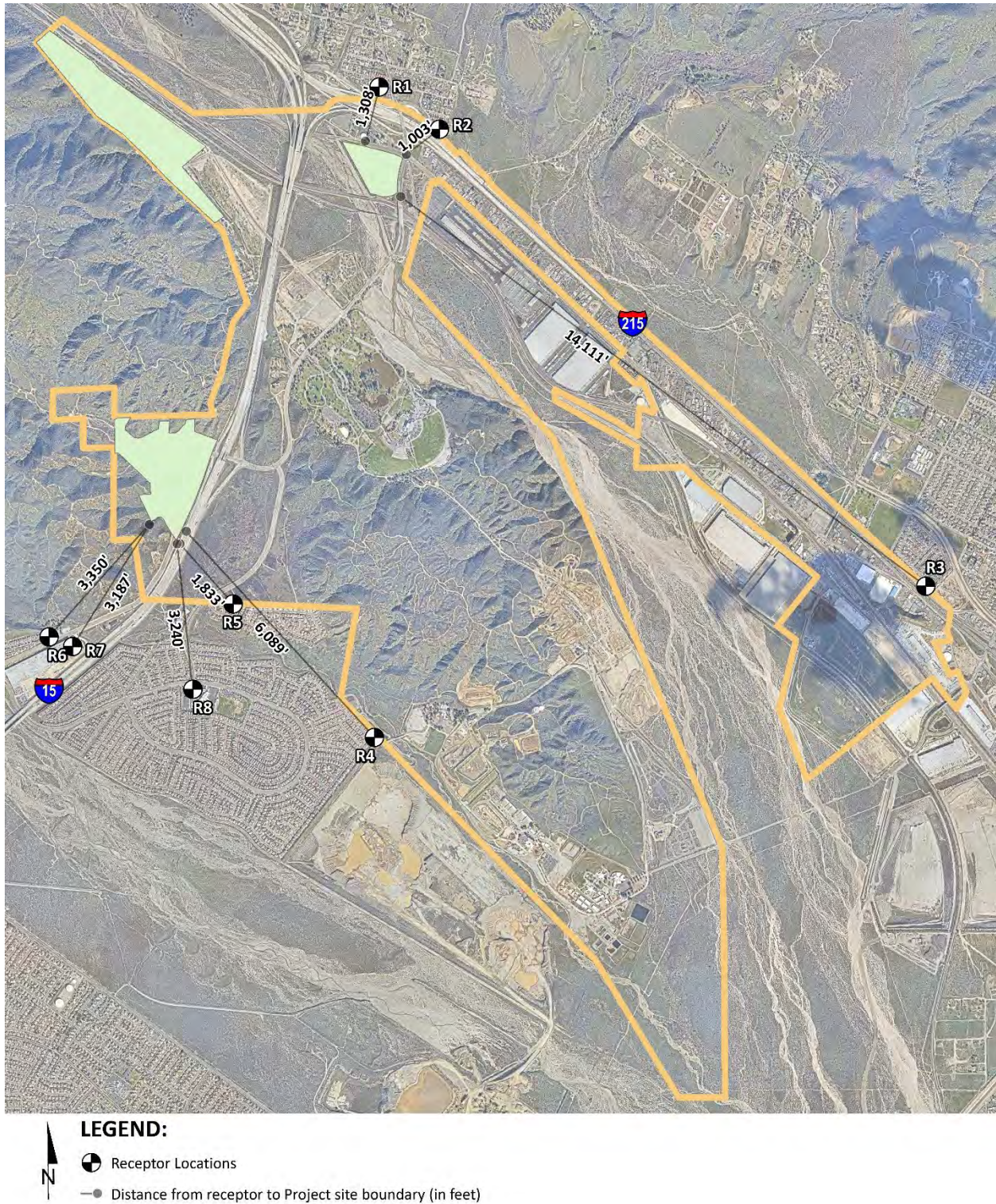
Receptors in the Project study area are described below and shown in Exhibit 3-B. Localized air quality impacts were evaluated at sensitive receptor land uses nearest the Project site. All distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site.

- R1: Location R1 represents the existing residence at 1650 Devore Road approximately 1,308 feet north of Subarea B. Receptor R1 is placed in the private outdoor living areas (backyard) facing the Project site.
- R2: Location R2 represents the existing residence at 18552 Parker Street, approximately 1,003 feet northeast of Subarea B. Receptor R2 is placed in the private outdoor living areas (backyard) facing the Project site.
- R3: Location R3 represents the existing residence at 3817 W Bodega Way approximately 14,111 feet southeast of Subarea B. Receptor R3 is placed in the private outdoor living areas (backyard) facing the Project site.
- R4: Location R4 represents the existing residence at 18325 Lapis Lane, approximately 6,089 feet southeast of Subarea C. Receptor R4 is placed in the private outdoor living areas (backyard) facing the Project site.
- R5: Location R5 represents the existing residence at 3301 Osage Court approximately 1,833 feet southeast of Subarea C. Receptor R5 is placed in the private outdoor living areas (backyard) facing the Project site.
- R6: Location R6 represents the existing residence at 17221 Gray Pine Place approximately 3,350 feet southwest of Subarea C. Receptor R6 is placed in the private outdoor living areas (backyard) facing the Project site.
- R7: Location R7 represents the existing potential worker receptor located at 17335 Glen Helen Parkway approximately 3,187 feet southwest of Subarea C.
- R8: Location R8 represents Paakuma K-8 school located at 17825 Sycamore Creek Loop Parkway approximately 3,240 feet south of Subarea C.

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).



### EXHIBIT 3-B: RECEPTOR LOCATIONS





### 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 (without mitigation). 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. AERMOD model outputs are provided in Appendix 3.9.

**TABLE 3-9: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION – WITHOUT MITIGATION**

| 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            | 5.05E-04       | 2.51E-04    | 3.56E-04        | 0.14             | 0.07              |
| Background Concentration <sup>A</sup>   | 1.9            | 1.4         | 0.069           |                  |                   |
| <b>Total Concentration</b>              | <b>1.90</b>    | <b>1.40</b> | <b>0.07</b>     | <b>0.14</b>      | <b>0.07</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>.

Localized Significance thresholds are based on SCAQMD's Final Localized Significance Threshold Methodology and are based on the AAQS for CO and NO<sub>2</sub> and SCAQMD Rule 403 limits for PM<sub>10</sub> and PM<sub>2.5</sub>.

#### POTENTIAL SUBAREA C FUTURE RESIDENTIAL CONSTRUCTION LSTs

It should be noted that the existing land use for the portion of Subarea C west of Glen Helen Parkway is residential, with the proposed Project adding a Corridor Industrial (CI) overlay. As such, it is possible that future residential uses could be placed on this parcel. In order to evaluate the potential LST impacts to future residents from the construction of the proposed industrial land uses in Subarea C east of Glen Helen Parkway, a screening analysis was performed assuming any residences would be at least 200 feet from the industrial land uses. As shown in Table 3-10, Project construction emissions would not exceed SCAQMD localized significance thresholds for potential future residents in Subarea C.

**TABLE 3-10: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION – WITHOUT MITIGATION (SUBAREA C)**

| 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 | 2.53E-03       | 8.52E-04 | 1.78E-03        | 0.23             | 0.12              |

|                                         |             |             |             |             |             |
|-----------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Background Concentration <sup>A</sup>   | 1.9         | 1.4         | 0.069       |             |             |
| <b>Total Concentration</b>              | <b>1.90</b> | <b>1.40</b> | <b>0.07</b> | <b>0.23</b> | <b>0.12</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>.

Localized Significance thresholds are based on SCAQMD's Final Localized Significance Threshold Methodology and are based on the AAQS for CO and NO<sub>2</sub> and SCAQMD Rule 403 limits for PM<sub>10</sub> and PM<sub>2.5</sub>.

### 3.8 OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

The LST analysis generally includes on-site sources (area, energy, mobile, and on-site cargo handling 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, trip lengths of 0.95 miles for Subarea A, 0.32 miles for Subarea B, and 0.53 miles for Subarea C were utilized for both trucks and passenger cars based on the size of each subarea. CalEEMod model outputs for the LST analysis are provided in Appendix 3.5. AERMOD model outputs are provided in Appendix 3.6.

In order to account for any potential impacts to on-site receptors as a result of operational activity, a scenario conservatively assuming worst-case opening year 2040 emissions was analyzed. As shown in Table 3-11 below, emissions would not exceed SCAQMD's localized significance thresholds at the maximally exposed on-site receptors as a result of operational activities.

**TABLE 3-11: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS**

| Peak Operations                         | 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            | 2.94E-02       | 1.69E-02    | 3.04E-03        | 0.18             | 0.11              |
| Background Concentration <sup>A</sup>   | 1.9            | 1.4         | 0.069           |                  |                   |
| <b>Total Concentration</b>              | <b>1.93</b>    | <b>1.42</b> | <b>0.07</b>     | <b>0.18</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>.

Localized Significance thresholds are based on SCAQMD's Final Localized Significance Threshold Methodology and are based on the AAQS for CO and NO<sub>2</sub> and SCAQMD Rule 1303 limits for PM<sub>10</sub> and PM<sub>2.5</sub>.

**POTENTIAL SUBAREA C FUTURE RESIDENTIAL OPERATIONAL LSTs**

It should be noted that the existing land use for the portion of Subarea C west of Glen Helen Parkway is residential, with the proposed Project adding a Corridor Industrial (CI) overlay. As such, it is possible that future residential uses could be placed on this parcel. In order to evaluate the potential LST impacts to future residents from the proposed industrial land uses in Subarea C east of Glen Helen Parkway, a screening analysis was performed assuming any residences would be at least 200 feet from the industrial land uses. As shown on Table 3-12, Project operational emissions would not exceed SCAQMD localized significance thresholds for potential future residents in Subarea C.

**TABLE 3-12: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS (SUBAREA C)**

| Peak Operations                         | 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            | 4.90E-02       | 3.30E-02    | 4.81E-03        | 0.48             | 0.26              |
| Background Concentration <sup>A</sup>   | 1.9            | 1.4         | 0.069           |                  |                   |
| <b>Total Concentration</b>              | <b>1.95</b>    | <b>1.43</b> | <b>0.07</b>     | <b>0.48</b>      | <b>0.26</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>.

Localized Significance thresholds are based on SCAQMD's Final Localized Significance Threshold Methodology and are based on the AAQS for CO and NO<sub>2</sub> and SCAQMD Rule 1303 limits for PM<sub>10</sub> and PM<sub>2.5</sub>.

**3.9 CO "HOT SPOT" ANALYSIS**

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot," would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment. To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown in Table 3-13.

**TABLE 3-13: CO MODEL RESULTS**

| Intersection Location                  | CO Concentrations (ppm) |                  |        |
|----------------------------------------|-------------------------|------------------|--------|
|                                        | Morning 1-hour          | Afternoon 1-hour | 8-hour |
| Wilshire Boulevard/Veteran Avenue      | 4.6                     | 3.5              | 3.7    |
| Sunset Boulevard/Highland Avenue       | 4                       | 4.5              | 3.5    |
| La Cienega Boulevard/Century Boulevard | 3.7                     | 3.1              | 5.2    |
| Long Beach Boulevard/Imperial Highway  | 3                       | 3.1              | 8.4    |

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations

Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hour CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (39). In contrast, an adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hour and 8-hour CO concentration within the Project study area is estimated to be 1.6 ppm and 1.0 ppm, respectively (data from Central San Bernardino Valley 1 monitoring station for 2022). Therefore, even if the traffic volumes for the proposed Project were ten times the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, due to the on-going improvements in ambient air quality and vehicular emissions controls, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections. As noted above, only 0.7 ppm were attributable to the traffic volumes and congestion at one of the busiest intersections in the SCAB. Therefore if these traffic volumes were multiplied by ten times, it could be expected that the CO attributable to traffic would increase tenfold as well, resulting in 7 ppm – even if this were added to either the 1-hour or 8-hour CO concentrations within the Project study area, this would result in 8.6 ppm and 8.0 ppm for the 1-hr and 8-hr timeframes, respectively. Neither of which would exceed the applicable 1-hr standard of 20 ppm or the 8-hr standard of 9 ppm.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (40). Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 3-14. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which had AM/PM traffic volumes of 8,062 vph and 7,719 vph

respectively (39). By comparison, as detailed in the Project traffic study, the busiest intersection in the Project vicinity (Glen Helen Parkway and Cajon Boulevard) would experience peak hour volumes of 3,085 vph under the General Plan Buildout Plus Project scenario. Additionally, buildout of the proposed GHSP Amendment would generate a reduction of 11,688 actual daily vehicle trips and 6,030 Passenger Car Equivalent (PCE) vehicle trips per day compared to buildout of the existing GHSP land uses. Thus, the proposed Project would not result in an increase in traffic volumes that could generate a CO hotspot.

**TABLE 3-14: TRAFFIC VOLUMES**

| Intersection Location                  | Peak Traffic Volumes (vph) |                      |                       |                       |                  |
|----------------------------------------|----------------------------|----------------------|-----------------------|-----------------------|------------------|
|                                        | Eastbound<br>(AM/PM)       | Westbound<br>(AM/PM) | Southbound<br>(AM/PM) | Northbound<br>(AM/PM) | Total<br>(AM/PM) |
| Wilshire Boulevard/Veteran Avenue      | 4,954/2,069                | 1,830/3,317          | 721/1,400             | 560/933               | 8,062/7,719      |
| Sunset Boulevard/Highland Avenue       | 1,417/1,764                | 1,342/1,540          | 2,304/1,832           | 1,551/2,238           | 6,614/5,374      |
| La Cienega Boulevard/Century Boulevard | 2,540/2,243                | 1,890/2,728          | 1,384/2,029           | 821/1,674             | 6,634/8,674      |
| Long Beach Boulevard/Imperial Highway  | 1,217/2,020                | 1,760/1,400          | 479/944               | 756/1,150             | 4,212/5,514      |

Source: 2003 AQMP

### 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 was previously 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 in order 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 CAAQS, 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 (41). Similar to the 2016 AQMP, 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

(24). The Project's consistency with the AQMP will be determined using the 2022 AQMP as discussed below.

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 refer 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***

As evaluated, the Project's localized and regional 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***

As evaluated, the Project's localized and regional operation-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

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 County of San Bernardino 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 proposed GHSP amendment at buildout would result in either 336 less residential units or 554,083 SF of Commercial/Traveler Services development; an increase of 1,856,527 SF of Corridor Industrial development and 79 acres of truck and trailer parking; a reduction in 96 single-family residences with implementation of the proposed CI Overlay, and a reduction of 860,310 SF of Destination Recreation development. With the proposed Corridor Industrial Overlay, the proposed change would result in a reduction of 432 residential units and a reduction of 1,432 residents, and an increase of 568 employees compared to the buildout of the existing GHSP. This equates to a reduction of 864 people within the proposed amendment areas at buildout. Although, an increase in non-residential development and an increase of 568 employees compared to the buildout of the existing GHSP would occur, the employees would not be a new 24-hour population and most new employees would live locally in the unincorporated San Bernardino County area, as there is a higher ratio of housing than employment opportunities. The new jobs in an area with more housing than jobs would provide employment for local residents. Further, the 568 additional jobs that would result from buildout of the proposed GHSP amendment would generate a 7 percent increase in jobs, which would be 4 percent of the SCAG projected increase in employment in unincorporated San Bernardino County through 2045. In addition, it should be noted that the proposed Project would result in a reduction in vehicle trips compared to the existing GHSP. Thus, buildout of the proposed GHSP would be consistent with the AQMP and would not conflict with or obstruct implementation of the air quality plan.

### **3.11 TOXIC AIR CONTAMINANTS**

#### **CONSTRUCTION AND OPERATIONAL**

Based on the results of the *Glen Helen Specific Plan Amendment Health Risk Assessment* (43), emissions generated from the Project during short-term construction and long-term operation will not exceed SCAQMD significance thresholds for cancer and non-cancer health risks. As such, a less than significant impact is expected.

### **3.12 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 would 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 would not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO “hotspot.” Lastly, based on the results of the *Glen Helen Specific Plan Amendment Health Risk Assessment* (43), the Project will not exceed SCAQMD significance thresholds for cancer and non-cancer health risks during construction and operational activity. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

### 3.12.1 FRIANT RANCH CASE

This section describes the proposed Project's localized impact to air quality in the context of the 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 County of San Bernardino, 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.

### 3.13 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; and
- Fiberglass molding facilities.

The Project does not contain 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 refuse generated as a result of operation of the proposed Project would be stored in covered containers and removed at regular intervals in compliance with current solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors and other emissions (such as those leading to odors) associated with construction and operations activities of the proposed Project would be less than significant and no mitigation is required (44).

### 3.14 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate 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 exceeding the SCAQMD's thresholds 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 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 operation-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed Project operation-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 Glen Helen Specific Plan Amendment. 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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### PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Professionals  
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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                        | 9.0 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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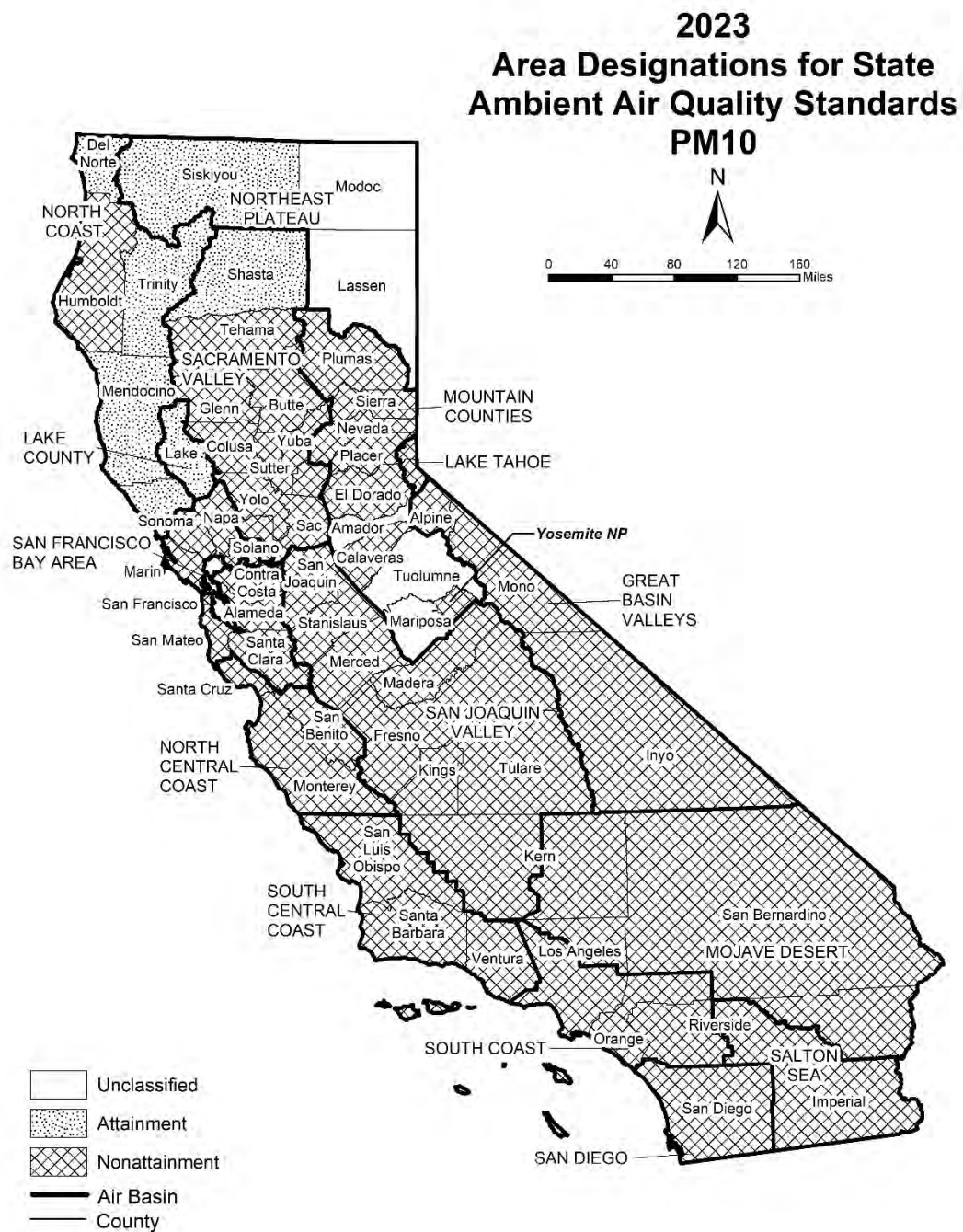
**Table 1**  
**California Ambient Air Quality Standards Area Designations for**  
**Ozone<sup>1</sup>**

| 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**



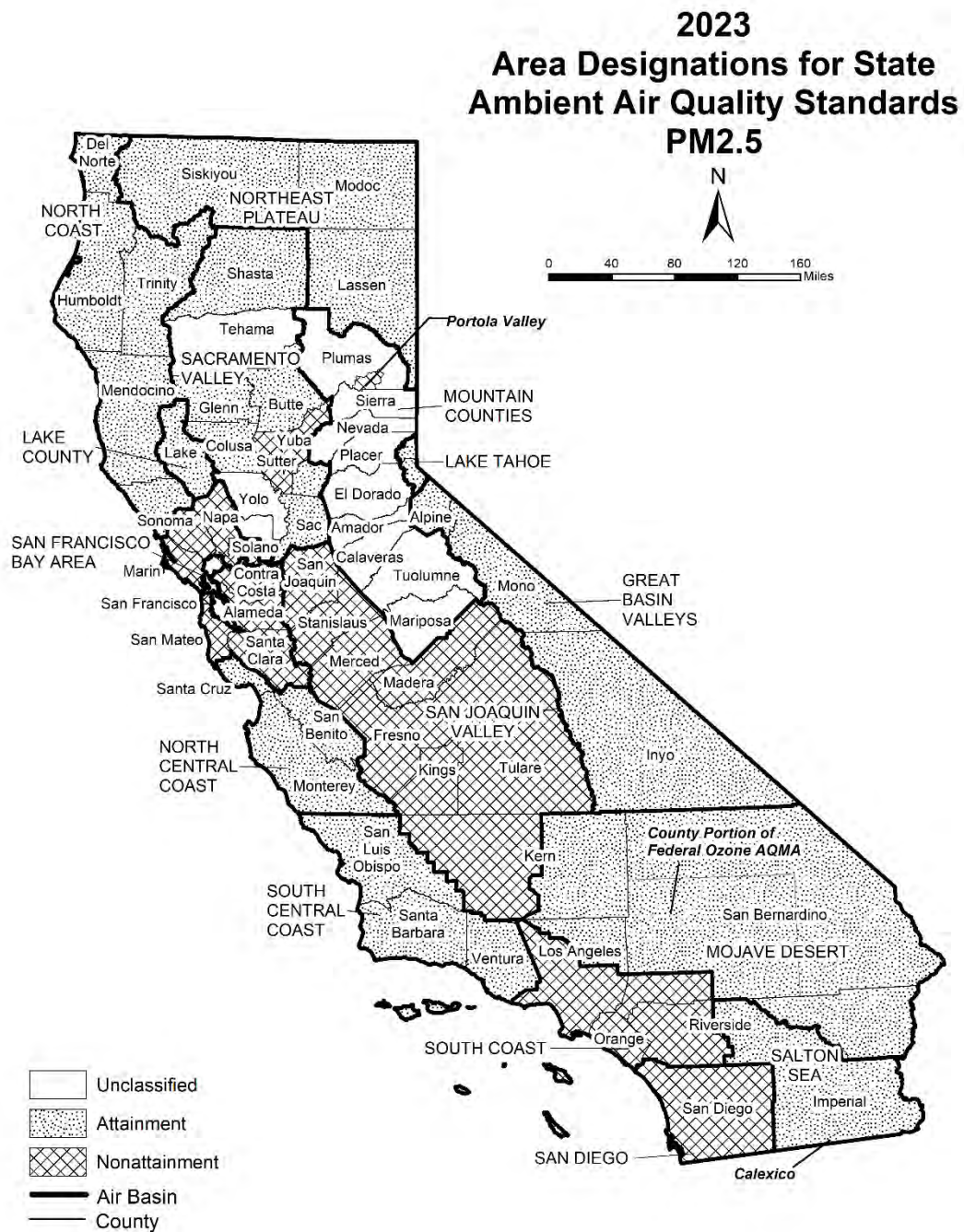
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**Table 2**  
**California Ambient Air Quality Standards Area Designations for**  
**Suspended Particulate Matter (PM<sub>10</sub>)**

| 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>)**

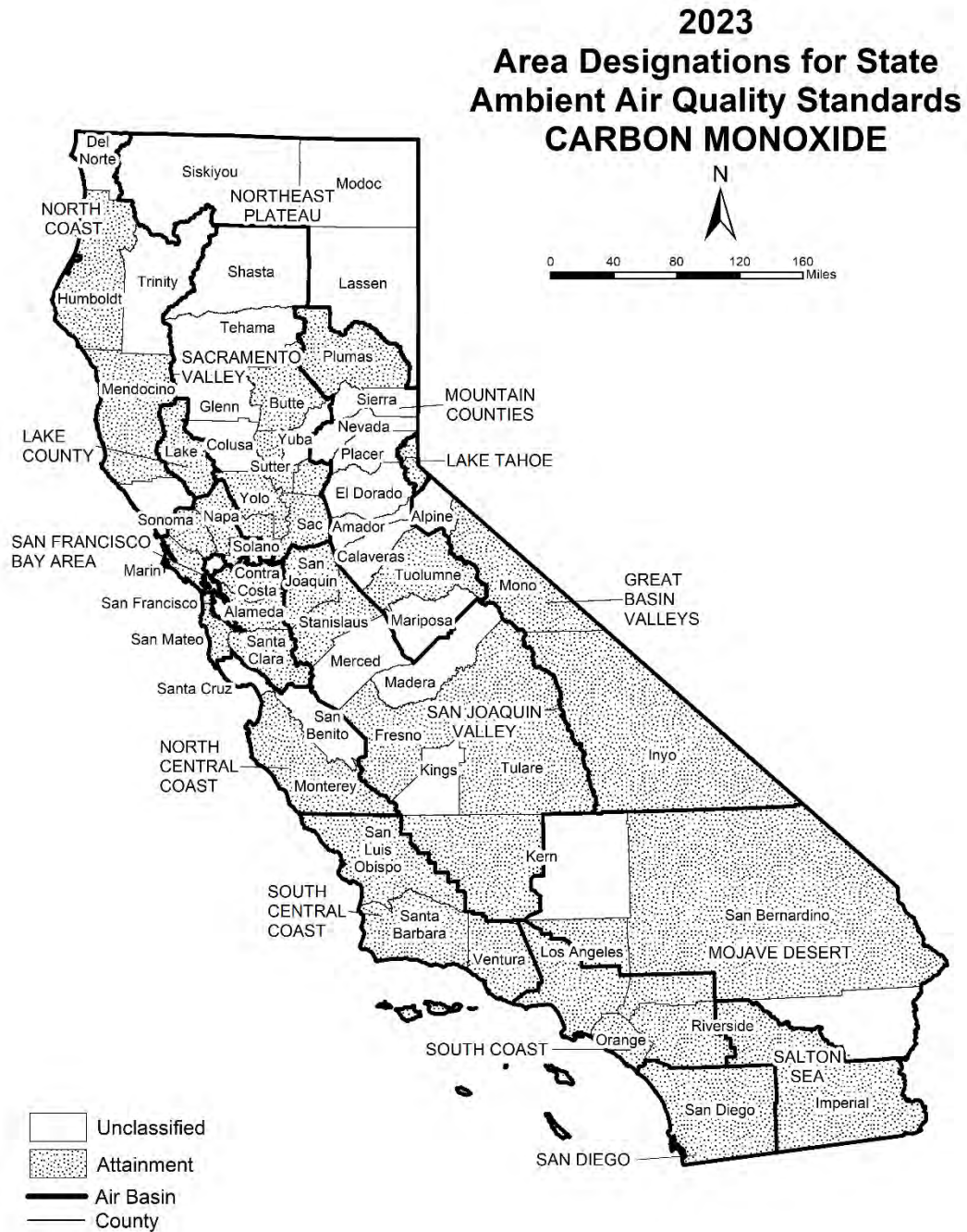
| Area                          | N | U | A |
|-------------------------------|---|---|---|
| GREAT BASIN VALLEYS AIR BASIN |   |   | A |
| LAKE COUNTY AIR BASIN         |   |   | A |
| LAKE TAHOE AIR BASIN          |   |   | A |
| MOJAVE DESERT AIR BASIN       |   |   | A |
| MOUNTAIN COUNTIES AIR BASIN   |   |   |   |
| 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  
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**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**



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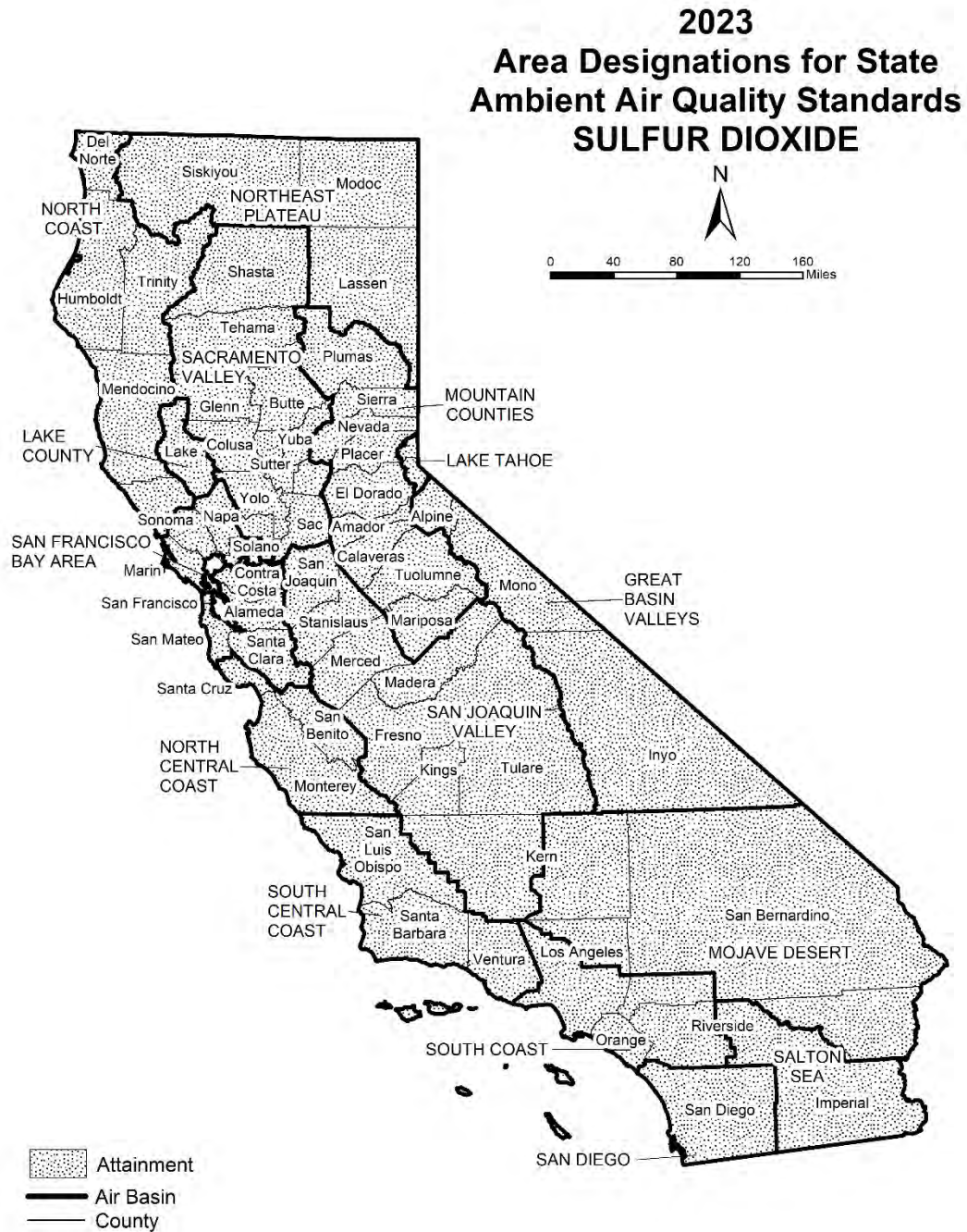


**Table 5**  
**California Ambient Air Quality Standards Area Designations for**  
**Nitrogen Dioxide**

| 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  
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**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  
Air Quality Planning and Science Division, CARB

**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 |   |

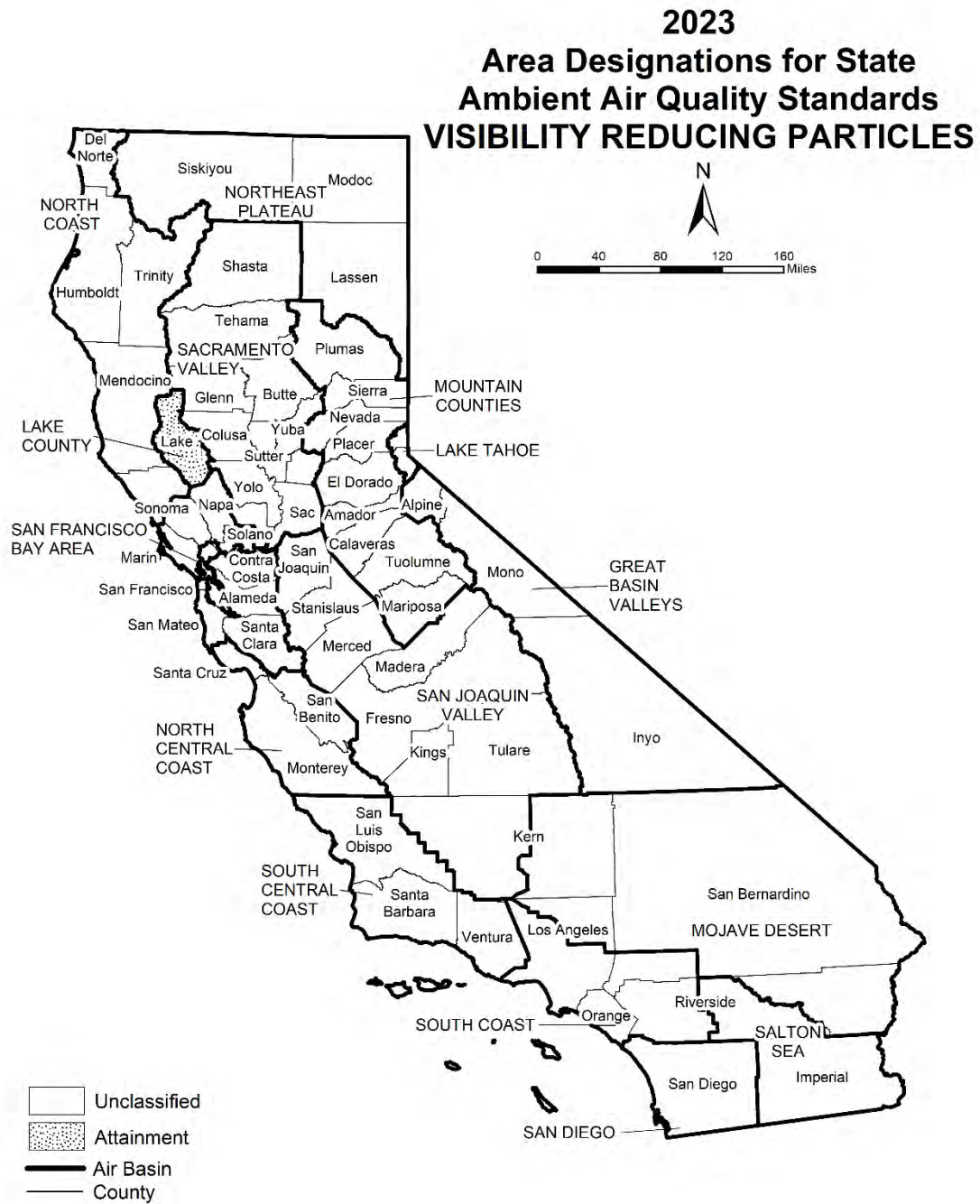
| Area                                  | N | NA-T | U | A |
|---------------------------------------|---|------|---|---|
| NORTH CENTRAL COAST AIR BASIN         |   |      | U |   |
| NORTH COAST AIR BASIN                 |   |      |   |   |
| Del Norte County                      |   |      | U |   |
| 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).

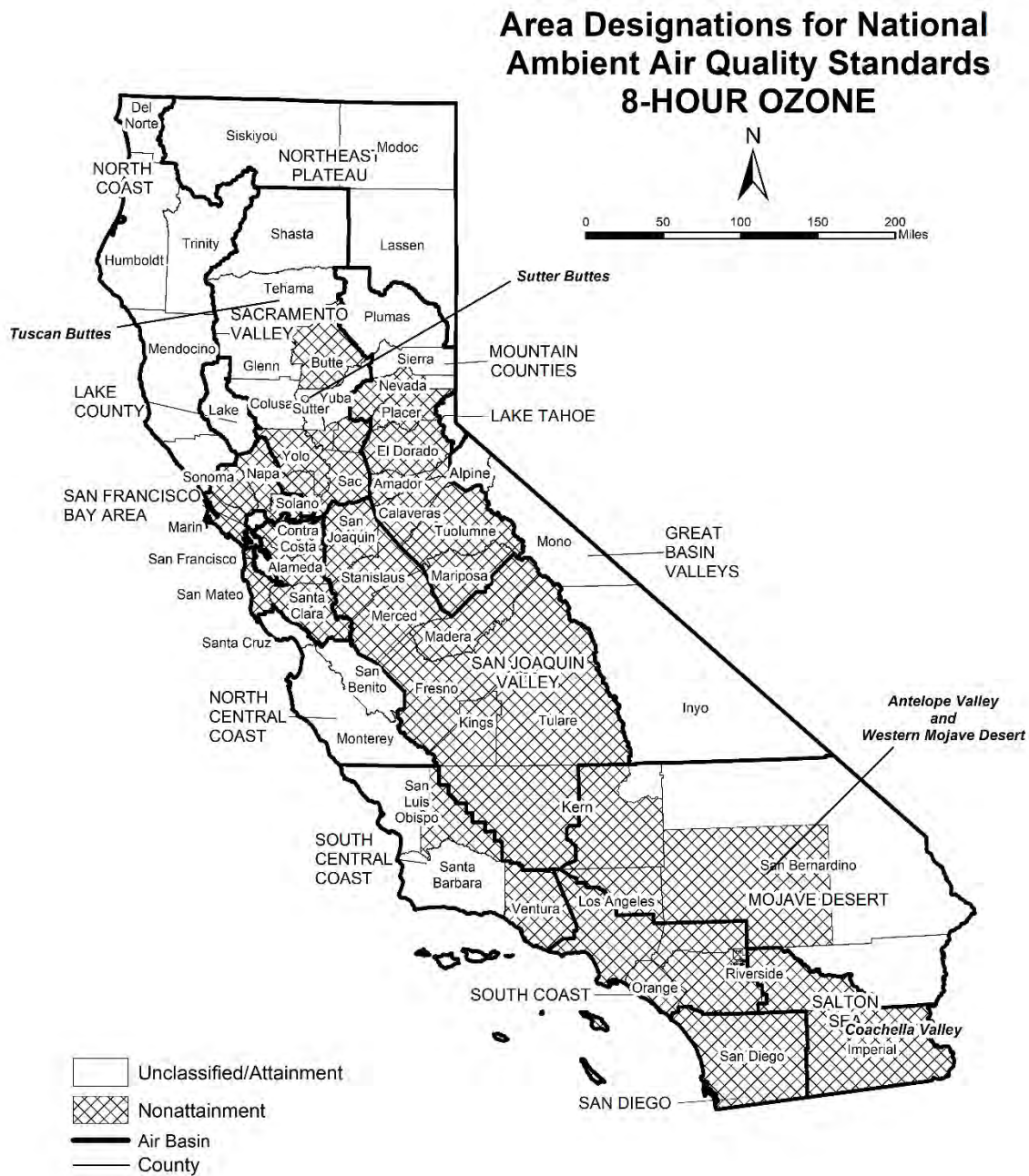
On June 2, 2010, the U.S. EPA established a new primary 1-hour SO<sub>2</sub> standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual average standards. Area designations for the 1-hour SO<sub>2</sub> standard were finalized on December 21, 2017 and are reflected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

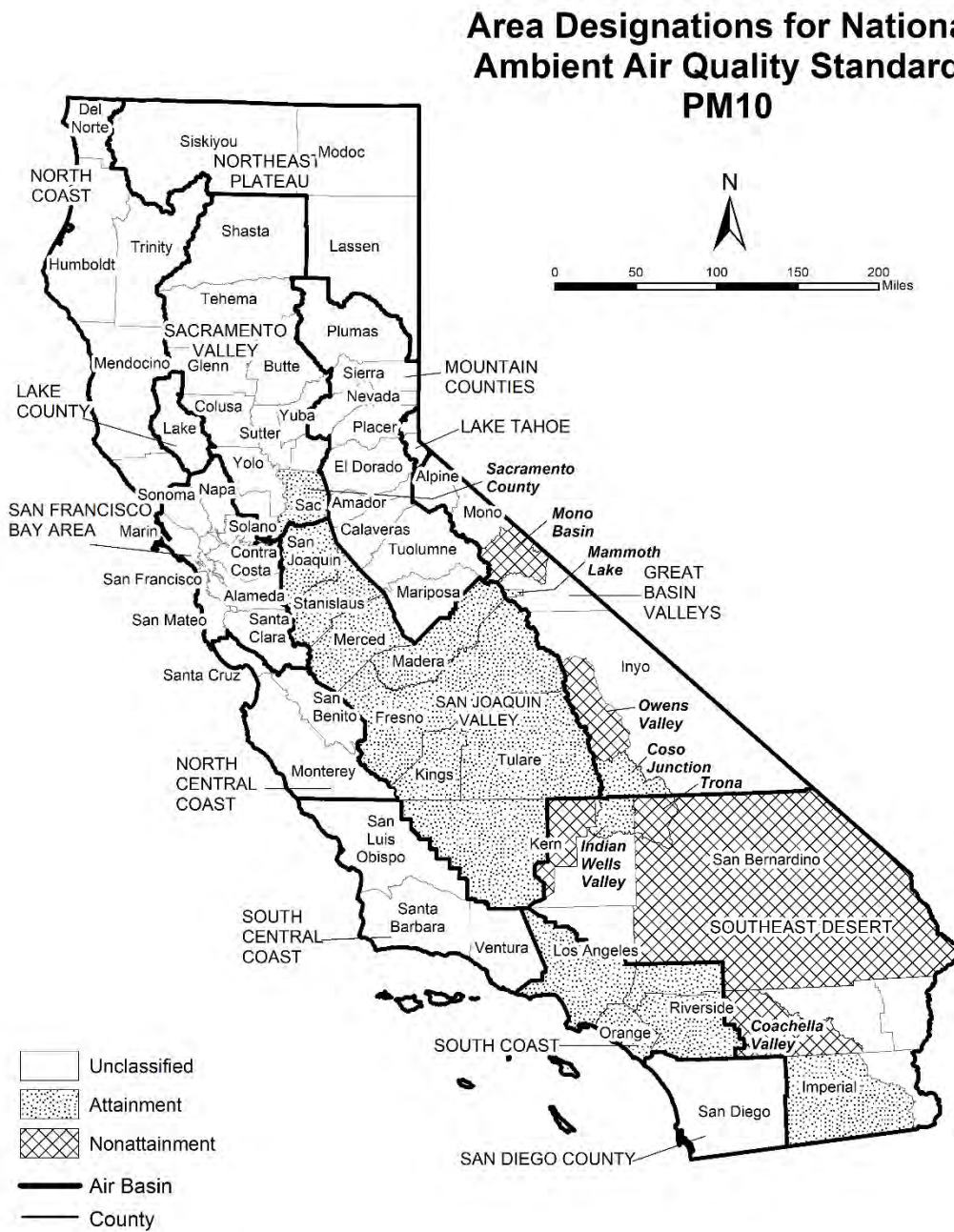
Ventura County includes Anacapa and San Nicolas Islands.

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**



Last Updated: November 2023  
Air Quality Planning and Science Division

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

| Area                          | N | U/A | Area                             | N | U/A |
|-------------------------------|---|-----|----------------------------------|---|-----|
| GREAT BASIN VALLEYS AIR BASIN |   | U/A | SACRAMENTO VALLEY AIR BASIN      |   | U/A |
| LAKE COUNTY AIR BASIN         |   | U/A | SAN DIEGO COUNTY                 |   | U/A |
| LAKE TAHOE AIR BASIN          |   | U/A | SAN FRANCISCO BAY AREA AIR BASIN |   | U/A |
| MOUNTAIN COUNTIES AIR BASIN   |   | U/A | SAN JOAQUIN VALLEY AIR BASIN     |   | U/A |
| NORTH CENTRAL COAST AIR BASIN |   | U/A | SOUTH CENTRAL COAST AIR BASIN    |   | U/A |
| NORTH COAST AIR BASIN         |   | U/A | SOUTH COAST AIR BASIN            |   | U/A |
| NORTHEAST PLATEAU 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 CONSTRUCTION EMISSIONS MODEL OUTPUTS**

# 15585 - Glen Helen Specific Plan Amendment (Construction) Detailed Report

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7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                     |
|-----------------------------|-----------------------------------------------------------|
| Project Name                | 15585 - Glen Helen Specific Plan Amendment (Construction) |
| Construction Start Date     | 9/2/2024                                                  |
| Lead Agency                 | —                                                         |
| Land Use Scale              | Plan/community                                            |
| Analysis Level for Defaults | County                                                    |
| Windspeed (m/s)             | 2.80                                                      |
| Precipitation (days)        | 6.80                                                      |
| Location                    | 34.191176, -117.402671                                    |
| County                      | San Bernardino-South Coast                                |
| City                        | Unincorporated                                            |
| Air District                | South Coast AQMD                                          |
| Air Basin                   | South Coast                                               |
| TAZ                         | 5317                                                      |
| EDFZ                        | 10                                                        |
| Electric Utility            | Southern California Edison                                |
| Gas Utility                 | Southern California Gas                                   |
| App Version                 | 2022.1.1.22                                               |

## 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           |
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-----------------------|
| Parking Lot      | 79.0 | Acre | 79.0        | 0.00                  | 0.00                   | —                              | —          | Truck Trailer Parking |

|                 |       |          |      |           |      |   |       |                     |
|-----------------|-------|----------|------|-----------|------|---|-------|---------------------|
| Industrial Park | 418   | 1000sqft | 19.2 | 418,176   | 0.00 | — | 1,384 | Corridor Industrial |
| Industrial Park | 1,335 | 1000sqft | 61.3 | 1,335,114 | 0.00 | — | —     | Corridor Industrial |

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

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.89 | 31.4 | 35.0 | 63.7 | 0.10 | 1.77  | 13.8  | 14.1  | 1.63   | 3.32   | 4.39   | —    | 19,630 | 19,630 | 0.67 | 1.43 | 43.2 | 19,899 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.93 | 31.3 | 37.9 | 52.4 | 0.10 | 1.93  | 13.8  | 14.1  | 1.78   | 3.32   | 4.54   | —    | 18,790 | 18,790 | 0.69 | 1.43 | 1.12 | 19,049 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 3.20 | 22.3 | 23.5 | 37.0 | 0.07 | 1.13  | 9.78  | 10.0  | 1.04   | 2.35   | 2.57   | —    | 13,351 | 13,351 | 0.47 | 0.99 | 11.8 | 13,537 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.58 | 4.06 | 4.29 | 6.75 | 0.01 | 0.21  | 1.79  | 1.83  | 0.19   | 0.43   | 0.47   | —    | 2,210  | 2,210  | 0.08 | 0.16 | 1.96 | 2,241  |

### 2.2. Construction Emissions by Year, Unmitigated

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

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

|                      |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2024                 | 3.25 | 2.71 | 25.5 | 23.3 | 0.04 | 1.07 | 0.32 | 1.39 | 0.98 | 0.08 | 1.06 | — | 4,111  | 4,111  | 0.18 | 0.11 | 2.18 | 4,150  |
| 2025                 | 2.98 | 2.48 | 22.8 | 21.4 | 0.04 | 0.92 | 0.32 | 1.25 | 0.85 | 0.08 | 0.93 | — | 4,099  | 4,099  | 0.18 | 0.11 | 2.09 | 4,137  |
| 2026                 | 4.67 | 3.91 | 35.0 | 32.4 | 0.07 | 1.77 | 5.97 | 7.74 | 1.63 | 2.76 | 4.39 | — | 7,719  | 7,719  | 0.34 | 0.18 | 2.87 | 7,783  |
| 2027                 | 4.02 | 3.34 | 28.8 | 30.1 | 0.07 | 1.28 | 3.14 | 4.41 | 1.18 | 1.10 | 2.27 | — | 7,700  | 7,700  | 0.33 | 0.17 | 2.56 | 7,762  |
| 2028                 | 4.89 | 4.13 | 27.2 | 63.7 | 0.08 | 1.19 | 11.7 | 12.1 | 1.09 | 2.82 | 3.17 | — | 19,351 | 19,351 | 0.67 | 1.43 | 43.2 | 19,838 |
| 2029                 | 4.65 | 3.95 | 18.4 | 60.5 | 0.08 | 0.35 | 11.7 | 12.0 | 0.33 | 2.82 | 3.15 | — | 18,991 | 18,991 | 0.65 | 1.38 | 38.4 | 19,457 |
| 2030                 | 4.43 | 3.49 | 17.5 | 57.3 | 0.08 | 0.34 | 11.7 | 12.0 | 0.31 | 2.82 | 3.13 | — | 18,628 | 18,628 | 0.59 | 1.38 | 33.9 | 19,088 |
| 2031                 | 4.25 | 3.32 | 16.9 | 54.4 | 0.08 | 0.32 | 11.7 | 12.0 | 0.30 | 2.82 | 3.12 | — | 18,265 | 18,265 | 0.57 | 1.03 | 29.7 | 18,615 |
| 2032                 | 4.07 | 3.20 | 16.1 | 52.2 | 0.08 | 0.30 | 11.7 | 12.0 | 0.28 | 2.82 | 3.10 | — | 17,918 | 17,918 | 0.51 | 1.03 | 25.8 | 18,263 |
| 2033                 | 3.64 | 3.10 | 15.6 | 50.0 | 0.08 | 0.27 | 11.7 | 11.9 | 0.26 | 2.82 | 3.08 | — | 17,599 | 17,599 | 0.51 | 0.97 | 22.5 | 17,924 |
| 2034                 | 3.49 | 2.95 | 14.9 | 48.2 | 0.08 | 0.26 | 11.7 | 11.9 | 0.25 | 2.82 | 3.07 | — | 17,286 | 17,286 | 0.50 | 0.97 | 19.3 | 17,606 |
| 2035                 | 3.38 | 2.90 | 14.5 | 46.3 | 0.08 | 0.25 | 11.7 | 11.9 | 0.23 | 2.82 | 3.05 | — | 16,994 | 16,994 | 0.43 | 0.91 | 16.6 | 17,293 |
| 2036                 | 3.29 | 2.82 | 14.2 | 44.7 | 0.08 | 0.24 | 11.7 | 11.9 | 0.22 | 2.82 | 3.04 | — | 16,726 | 16,726 | 0.43 | 0.91 | 14.1 | 17,023 |
| 2037                 | 3.18 | 2.72 | 13.8 | 43.5 | 0.08 | 0.22 | 11.7 | 11.9 | 0.21 | 2.82 | 3.03 | — | 16,486 | 16,486 | 0.42 | 0.86 | 12.0 | 16,765 |
| 2038                 | 3.04 | 2.63 | 13.3 | 42.3 | 0.08 | 0.22 | 11.7 | 11.9 | 0.21 | 2.82 | 3.03 | — | 16,257 | 16,257 | 0.42 | 0.86 | 10.2 | 16,534 |
| 2039                 | 4.04 | 31.4 | 19.5 | 58.3 | 0.10 | 0.33 | 13.8 | 14.1 | 0.31 | 3.32 | 3.62 | — | 19,630 | 19,630 | 0.45 | 0.83 | 9.91 | 19,899 |
| 2040                 | 3.92 | 31.3 | 19.3 | 57.4 | 0.10 | 0.32 | 13.8 | 14.1 | 0.30 | 3.32 | 3.62 | — | 19,450 | 19,450 | 0.43 | 0.83 | 8.29 | 19,716 |
| Daily - Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2024                 | 3.25 | 2.70 | 25.5 | 23.0 | 0.04 | 1.07 | 0.32 | 1.39 | 0.98 | 0.08 | 1.06 | — | 4,094  | 4,094  | 0.18 | 0.11 | 0.06 | 4,130  |
| 2025                 | 4.93 | 4.13 | 37.9 | 33.6 | 0.05 | 1.93 | 5.97 | 7.90 | 1.78 | 2.76 | 4.54 | — | 6,032  | 6,032  | 0.26 | 0.11 | 0.05 | 6,067  |
| 2026                 | 4.67 | 3.91 | 35.0 | 32.1 | 0.07 | 1.77 | 5.97 | 7.74 | 1.63 | 2.76 | 4.39 | — | 7,697  | 7,697  | 0.33 | 0.18 | 0.07 | 7,758  |
| 2027                 | 4.01 | 3.33 | 28.8 | 29.8 | 0.07 | 1.28 | 3.14 | 4.41 | 1.18 | 1.10 | 2.27 | — | 7,678  | 7,678  | 0.33 | 0.17 | 0.07 | 7,738  |
| 2028                 | 4.73 | 3.95 | 27.3 | 52.4 | 0.08 | 1.19 | 11.7 | 12.1 | 1.09 | 2.82 | 3.17 | — | 18,549 | 18,549 | 0.69 | 1.43 | 1.12 | 18,994 |
| 2029                 | 4.50 | 3.48 | 19.0 | 50.0 | 0.08 | 0.35 | 11.7 | 12.0 | 0.33 | 2.82 | 3.15 | — | 18,205 | 18,205 | 0.66 | 1.38 | 0.99 | 18,634 |

## 15585 - Glen Helen Specific Plan Amendment (Construction) Detailed Report, 4/11/2024

|               |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| 2030          | 4.29 | 3.35 | 18.2 | 47.7 | 0.08 | 0.34 | 11.7 | 12.0 | 0.31 | 2.82 | 3.13 | — | 17,858 | 17,858 | 0.60 | 1.38 | 0.88 | 18,286 |
| 2031          | 4.11 | 3.18 | 17.3 | 45.4 | 0.08 | 0.32 | 11.7 | 12.0 | 0.30 | 2.82 | 3.12 | — | 17,509 | 17,509 | 0.59 | 1.33 | 0.77 | 17,919 |
| 2032          | 3.64 | 3.07 | 16.7 | 43.4 | 0.08 | 0.30 | 11.7 | 12.0 | 0.28 | 2.82 | 3.10 | — | 17,174 | 17,174 | 0.53 | 1.03 | 0.67 | 17,494 |
| 2033          | 3.51 | 2.96 | 15.9 | 41.8 | 0.08 | 0.27 | 11.7 | 11.9 | 0.26 | 2.82 | 3.08 | — | 16,865 | 16,865 | 0.52 | 0.97 | 0.58 | 17,169 |
| 2034          | 3.39 | 2.85 | 15.6 | 40.5 | 0.08 | 0.26 | 11.7 | 11.9 | 0.25 | 2.82 | 3.07 | — | 16,562 | 16,562 | 0.50 | 0.97 | 0.50 | 16,865 |
| 2035          | 3.28 | 2.80 | 14.8 | 38.8 | 0.08 | 0.25 | 11.7 | 11.9 | 0.23 | 2.82 | 3.05 | — | 16,279 | 16,279 | 0.45 | 0.92 | 0.43 | 16,565 |
| 2036          | 3.19 | 2.72 | 14.4 | 37.8 | 0.08 | 0.24 | 11.7 | 11.9 | 0.22 | 2.82 | 3.04 | — | 16,019 | 16,019 | 0.44 | 0.92 | 0.37 | 16,304 |
| 2037          | 3.09 | 2.63 | 14.1 | 36.6 | 0.08 | 0.22 | 11.7 | 11.9 | 0.21 | 2.82 | 3.03 | — | 15,786 | 15,786 | 0.42 | 0.86 | 0.31 | 16,053 |
| 2038          | 2.99 | 2.59 | 13.9 | 36.0 | 0.08 | 0.22 | 11.7 | 11.9 | 0.21 | 2.82 | 3.03 | — | 15,564 | 15,564 | 0.42 | 0.86 | 0.26 | 15,831 |
| 2039          | 3.97 | 31.3 | 20.2 | 50.5 | 0.10 | 0.33 | 13.8 | 14.1 | 0.31 | 3.32 | 3.62 | — | 18,790 | 18,790 | 0.45 | 0.83 | 0.26 | 19,049 |
| 2040          | 3.89 | 31.2 | 19.6 | 49.9 | 0.10 | 0.32 | 13.8 | 14.1 | 0.30 | 3.32 | 3.62 | — | 18,615 | 18,615 | 0.44 | 0.83 | 0.21 | 18,874 |
| Average Daily | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| 2024          | 0.77 | 0.64 | 6.05 | 5.46 | 0.01 | 0.25 | 0.08 | 0.33 | 0.23 | 0.02 | 0.25 | — | 970    | 970    | 0.04 | 0.02 | 0.22 | 979    |
| 2025          | 2.39 | 1.99 | 18.4 | 16.8 | 0.03 | 0.80 | 1.00 | 1.80 | 0.74 | 0.42 | 1.16 | — | 3,185  | 3,185  | 0.14 | 0.07 | 0.62 | 3,211  |
| 2026          | 3.16 | 2.64 | 23.5 | 22.3 | 0.04 | 1.13 | 3.24 | 4.37 | 1.04 | 1.37 | 2.41 | — | 4,908  | 4,908  | 0.21 | 0.10 | 0.68 | 4,943  |
| 2027          | 2.87 | 2.38 | 20.6 | 21.3 | 0.05 | 0.91 | 2.24 | 3.15 | 0.84 | 0.78 | 1.62 | — | 5,487  | 5,487  | 0.23 | 0.12 | 0.79 | 5,530  |
| 2028          | 3.19 | 2.67 | 15.7 | 34.0 | 0.05 | 0.45 | 6.65 | 7.10 | 0.39 | 1.67 | 2.07 | — | 11,189 | 11,189 | 0.42 | 0.78 | 9.91 | 11,441 |
| 2029          | 3.20 | 2.49 | 13.6 | 37.0 | 0.06 | 0.25 | 8.30 | 8.55 | 0.23 | 2.01 | 2.24 | — | 13,090 | 13,090 | 0.47 | 0.99 | 11.8 | 13,407 |
| 2030          | 3.06 | 2.38 | 13.0 | 35.1 | 0.06 | 0.24 | 8.30 | 8.54 | 0.22 | 2.01 | 2.23 | — | 12,840 | 12,840 | 0.43 | 0.99 | 10.5 | 13,155 |
| 2031          | 2.95 | 2.29 | 12.3 | 33.4 | 0.06 | 0.23 | 8.30 | 8.53 | 0.21 | 2.01 | 2.22 | — | 12,589 | 12,589 | 0.42 | 0.95 | 9.19 | 12,891 |
| 2032          | 2.60 | 2.19 | 12.0 | 32.1 | 0.06 | 0.21 | 8.32 | 8.54 | 0.20 | 2.01 | 2.21 | — | 12,383 | 12,383 | 0.38 | 0.73 | 8.01 | 12,619 |
| 2033          | 2.51 | 2.11 | 11.4 | 30.9 | 0.06 | 0.20 | 8.30 | 8.50 | 0.18 | 2.01 | 2.19 | — | 12,127 | 12,127 | 0.37 | 0.69 | 6.92 | 12,350 |
| 2034          | 2.42 | 2.02 | 11.1 | 29.7 | 0.06 | 0.19 | 8.30 | 8.49 | 0.18 | 2.01 | 2.18 | — | 11,909 | 11,909 | 0.36 | 0.69 | 5.95 | 12,131 |
| 2035          | 2.34 | 2.00 | 10.8 | 28.8 | 0.06 | 0.18 | 8.30 | 8.48 | 0.17 | 2.01 | 2.17 | — | 11,706 | 11,706 | 0.32 | 0.65 | 5.12 | 11,914 |
| 2036          | 2.29 | 1.95 | 10.3 | 27.9 | 0.06 | 0.17 | 8.32 | 8.49 | 0.16 | 2.01 | 2.17 | — | 11,551 | 11,551 | 0.32 | 0.65 | 4.38 | 11,758 |
| 2037          | 2.21 | 1.88 | 10.1 | 27.0 | 0.06 | 0.16 | 8.30 | 8.46 | 0.15 | 2.01 | 2.16 | — | 11,352 | 11,352 | 0.30 | 0.61 | 3.71 | 11,546 |
| 2038          | 2.14 | 1.85 | 9.90 | 26.3 | 0.06 | 0.16 | 8.30 | 8.46 | 0.15 | 2.01 | 2.15 | — | 11,193 | 11,193 | 0.30 | 0.61 | 3.13 | 11,386 |

|        |      |      |      |      |         |      |      |      |      |         |      |   |        |        |      |         |      |        |
|--------|------|------|------|------|---------|------|------|------|------|---------|------|---|--------|--------|------|---------|------|--------|
| 2039   | 2.26 | 7.04 | 10.9 | 28.6 | 0.06    | 0.17 | 8.70 | 8.87 | 0.16 | 2.10    | 2.26 | — | 11,705 | 11,705 | 0.28 | 0.58    | 2.74 | 11,887 |
| 2040   | 2.75 | 22.3 | 13.9 | 36.3 | 0.07    | 0.23 | 9.78 | 10.0 | 0.21 | 2.35    | 2.57 | — | 13,351 | 13,351 | 0.31 | 0.59    | 2.55 | 13,537 |
| Annual | —    | —    | —    | —    | —       | —    | —    | —    | —    | —       | —    | — | —      | —      | —    | —       | —    | —      |
| 2024   | 0.14 | 0.12 | 1.10 | 1.00 | < 0.005 | 0.05 | 0.01 | 0.06 | 0.04 | < 0.005 | 0.05 | — | 161    | 161    | 0.01 | < 0.005 | 0.04 | 162    |
| 2025   | 0.44 | 0.36 | 3.35 | 3.07 | 0.01    | 0.15 | 0.18 | 0.33 | 0.13 | 0.08    | 0.21 | — | 527    | 527    | 0.02 | 0.01    | 0.10 | 532    |
| 2026   | 0.58 | 0.48 | 4.29 | 4.07 | 0.01    | 0.21 | 0.59 | 0.80 | 0.19 | 0.25    | 0.44 | — | 813    | 813    | 0.03 | 0.02    | 0.11 | 818    |
| 2027   | 0.52 | 0.43 | 3.76 | 3.88 | 0.01    | 0.17 | 0.41 | 0.58 | 0.15 | 0.14    | 0.30 | — | 908    | 908    | 0.04 | 0.02    | 0.13 | 916    |
| 2028   | 0.58 | 0.49 | 2.86 | 6.21 | 0.01    | 0.08 | 1.21 | 1.30 | 0.07 | 0.31    | 0.38 | — | 1,852  | 1,852  | 0.07 | 0.13    | 1.64 | 1,894  |
| 2029   | 0.58 | 0.45 | 2.48 | 6.75 | 0.01    | 0.05 | 1.51 | 1.56 | 0.04 | 0.37    | 0.41 | — | 2,167  | 2,167  | 0.08 | 0.16    | 1.96 | 2,220  |
| 2030   | 0.56 | 0.44 | 2.37 | 6.41 | 0.01    | 0.04 | 1.51 | 1.56 | 0.04 | 0.37    | 0.41 | — | 2,126  | 2,126  | 0.07 | 0.16    | 1.73 | 2,178  |
| 2031   | 0.54 | 0.42 | 2.25 | 6.10 | 0.01    | 0.04 | 1.51 | 1.56 | 0.04 | 0.37    | 0.40 | — | 2,084  | 2,084  | 0.07 | 0.16    | 1.52 | 2,134  |
| 2032   | 0.47 | 0.40 | 2.18 | 5.86 | 0.01    | 0.04 | 1.52 | 1.56 | 0.04 | 0.37    | 0.40 | — | 2,050  | 2,050  | 0.06 | 0.12    | 1.33 | 2,089  |
| 2033   | 0.46 | 0.39 | 2.08 | 5.63 | 0.01    | 0.04 | 1.51 | 1.55 | 0.03 | 0.37    | 0.40 | — | 2,008  | 2,008  | 0.06 | 0.11    | 1.15 | 2,045  |
| 2034   | 0.44 | 0.37 | 2.03 | 5.43 | 0.01    | 0.03 | 1.51 | 1.55 | 0.03 | 0.37    | 0.40 | — | 1,972  | 1,972  | 0.06 | 0.11    | 0.98 | 2,008  |
| 2035   | 0.43 | 0.36 | 1.97 | 5.25 | 0.01    | 0.03 | 1.51 | 1.55 | 0.03 | 0.37    | 0.40 | — | 1,938  | 1,938  | 0.05 | 0.11    | 0.85 | 1,972  |
| 2036   | 0.42 | 0.36 | 1.88 | 5.10 | 0.01    | 0.03 | 1.52 | 1.55 | 0.03 | 0.37    | 0.40 | — | 1,912  | 1,912  | 0.05 | 0.11    | 0.73 | 1,947  |
| 2037   | 0.40 | 0.34 | 1.84 | 4.92 | 0.01    | 0.03 | 1.51 | 1.54 | 0.03 | 0.37    | 0.39 | — | 1,879  | 1,879  | 0.05 | 0.10    | 0.61 | 1,912  |
| 2038   | 0.39 | 0.34 | 1.81 | 4.80 | 0.01    | 0.03 | 1.51 | 1.54 | 0.03 | 0.37    | 0.39 | — | 1,853  | 1,853  | 0.05 | 0.10    | 0.52 | 1,885  |
| 2039   | 0.41 | 1.29 | 2.00 | 5.23 | 0.01    | 0.03 | 1.59 | 1.62 | 0.03 | 0.38    | 0.41 | — | 1,938  | 1,938  | 0.05 | 0.10    | 0.45 | 1,968  |
| 2040   | 0.50 | 4.06 | 2.54 | 6.63 | 0.01    | 0.04 | 1.79 | 1.83 | 0.04 | 0.43    | 0.47 | — | 2,210  | 2,210  | 0.05 | 0.10    | 0.42 | 2,241  |

### 3. Construction Emissions Details

#### 3.1. Demolition (2024) - Unmitigated

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

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

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 3.12 | 2.62 | 24.9 | 21.7 | 0.03    | 1.06 | —    | 1.06 | 0.98 | —    | 0.98 | — | 3,425 | 3,425 | 0.14 | 0.03    | —    | 3,437 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 3.12 | 2.62 | 24.9 | 21.7 | 0.03    | 1.06 | —    | 1.06 | 0.98 | —    | 0.98 | — | 3,425 | 3,425 | 0.14 | 0.03    | —    | 3,437 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.74 | 0.62 | 5.89 | 5.15 | 0.01    | 0.25 | —    | 0.25 | 0.23 | —    | 0.23 | — | 811   | 811   | 0.03 | 0.01    | —    | 814   |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.13 | 0.11 | 1.08 | 0.94 | < 0.005 | 0.05 | —    | 0.05 | 0.04 | —    | 0.04 | — | 134   | 134   | 0.01 | < 0.005 | —    | 135   |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |



|                     |         |         |         |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|---------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Summer (Max) | —       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.09    | 0.08    | 0.07    | 1.27 | 0.00    | 0.00    | 0.20 | 0.20 | 0.00    | 0.05    | 0.05    | — | 216  | 216  | 0.01    | 0.01    | 0.86 | 219  |
| Vendor              | 0.05    | 0.01    | 0.54    | 0.29 | < 0.005 | 0.01    | 0.13 | 0.14 | 0.01    | 0.04    | 0.04    | — | 470  | 470  | 0.04    | 0.07    | 1.31 | 493  |
| 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              | 0.08    | 0.07    | 0.09    | 0.96 | 0.00    | 0.00    | 0.20 | 0.20 | 0.00    | 0.05    | 0.05    | — | 198  | 198  | 0.01    | 0.01    | 0.02 | 200  |
| Vendor              | 0.05    | 0.01    | 0.56    | 0.29 | < 0.005 | 0.01    | 0.13 | 0.14 | 0.01    | 0.04    | 0.04    | — | 471  | 471  | 0.04    | 0.07    | 0.03 | 492  |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily       | —       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.02    | 0.02    | 0.24 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01    | — | 47.5 | 47.5 | < 0.005 | < 0.005 | 0.09 | 48.2 |
| Vendor              | 0.01    | < 0.005 | 0.13    | 0.07 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01    | 0.01    | — | 111  | 111  | 0.01    | 0.02    | 0.13 | 117  |
| 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 | 0.04 | 0.00    | 0.00    | 0.01 | 0.01 | 0.00    | < 0.005 | < 0.005 | — | 7.87 | 7.87 | < 0.005 | < 0.005 | 0.01 | 7.98 |
| Vendor              | < 0.005 | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 18.4 | 18.4 | < 0.005 | < 0.005 | 0.02 | 19.3 |
| 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 |

### 3.3. Demolition (2025) - 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  | 2.86 | 2.40 | 22.2 | 19.9 | 0.03    | 0.92 | —    | 0.92 | 0.84 | —    | 0.84 | — | 3,425 | 3,425 | 0.14 | 0.03    | —    | 3,437 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 2.86 | 2.40 | 22.2 | 19.9 | 0.03    | 0.92 | —    | 0.92 | 0.84 | —    | 0.84 | — | 3,425 | 3,425 | 0.14 | 0.03    | —    | 3,437 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.65 | 1.38 | 12.8 | 11.5 | 0.02    | 0.53 | —    | 0.53 | 0.49 | —    | 0.49 | — | 1,977 | 1,977 | 0.08 | 0.02    | —    | 1,984 |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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  |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.30 | 0.25 | 2.34 | 2.10 | < 0.005 | 0.10 | —    | 0.10 | 0.09 | —    | 0.09 | — | 327   | 327   | 0.01 | < 0.005 | —    | 328   |
| Demolition          | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 0.00 | — | —     | —     | —    | —       | —    | —     |
| 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  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |

|                     |         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Worker              | 0.08    | 0.07    | 0.07 | 1.17 | 0.00    | 0.00    | 0.20 | 0.20 | 0.00    | 0.05    | 0.05    | — | 211  | 211  | 0.01    | 0.01    | 0.78 | 215  |
| Vendor              | 0.05    | 0.01    | 0.51 | 0.28 | < 0.005 | 0.01    | 0.13 | 0.14 | 0.01    | 0.04    | 0.04    | — | 463  | 463  | 0.04    | 0.07    | 1.30 | 486  |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.07    | 0.06    | 0.07 | 0.88 | 0.00    | 0.00    | 0.20 | 0.20 | 0.00    | 0.05    | 0.05    | — | 194  | 194  | 0.01    | 0.01    | 0.02 | 196  |
| Vendor              | 0.05    | 0.01    | 0.54 | 0.28 | < 0.005 | 0.01    | 0.13 | 0.14 | 0.01    | 0.04    | 0.04    | — | 463  | 463  | 0.04    | 0.07    | 0.03 | 485  |
| 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              | 0.04    | 0.04    | 0.05 | 0.54 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.03    | 0.03    | — | 113  | 113  | 0.01    | < 0.005 | 0.20 | 115  |
| Vendor              | 0.03    | 0.01    | 0.31 | 0.16 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02    | 0.02    | — | 267  | 267  | 0.02    | 0.04    | 0.33 | 280  |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01    | 0.01 | 0.10 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 18.8 | 18.8 | < 0.005 | < 0.005 | 0.03 | 19.0 |
| Vendor              | < 0.005 | < 0.005 | 0.06 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 44.2 | 44.2 | < 0.005 | 0.01    | 0.05 | 46.4 |
| 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. Site Preparation (2025) - Unmitigated

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

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

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Off-Road Equipment          | 4.82 | 4.05 | 37.5 | 32.4 | 0.05    | 1.93 | —    | 1.93 | 1.78 | —    | 1.78 | — | 5,528 | 5,528 | 0.22 | 0.04    | —    | 5,547 |
| 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  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.66 | 0.55 | 5.13 | 4.44 | 0.01    | 0.26 | —    | 0.26 | 0.24 | —    | 0.24 | — | 757   | 757   | 0.03 | 0.01    | —    | 760   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.78 | 0.78 | —    | 0.37 | 0.37 | — | —     | —     | —    | —       | —    | —     |
| 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          | 0.12 | 0.10 | 0.94 | 0.81 | < 0.005 | 0.05 | —    | 0.05 | 0.04 | —    | 0.04 | — | 125   | 125   | 0.01 | < 0.005 | —    | 126   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.14 | 0.14 | —    | 0.07 | 0.07 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Offsite                     | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Worker                      | 0.08 | 0.08 | 0.08 | 1.03 | 0.00    | 0.00 | 0.23 | 0.23 | 0.00 | 0.05 | 0.05 | — | 226   | 226   | 0.01 | 0.01    | 0.02 | 229   |

|               |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor        | 0.03    | 0.01    | 0.32    | 0.17    | < 0.005 | < 0.005 | 0.08    | 0.08    | < 0.005 | 0.02    | 0.03    | — | 278  | 278  | 0.02    | 0.04    | 0.02 | 291  |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.01    | 0.01    | 0.01    | 0.15    | 0.00    | 0.00    | 0.03    | 0.03    | 0.00    | 0.01    | 0.01    | — | 31.4 | 31.4 | < 0.005 | < 0.005 | 0.05 | 31.9 |
| Vendor        | < 0.005 | < 0.005 | 0.04    | 0.02    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 38.0 | 38.0 | < 0.005 | 0.01    | 0.05 | 39.9 |
| 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 |
| Annual        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 5.20 | 5.20 | < 0.005 | < 0.005 | 0.01 | 5.27 |
| Vendor        | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.30 | 6.30 | < 0.005 | < 0.005 | 0.01 | 6.60 |
| 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. Site Preparation (2026) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 4.56 | 3.83 | 34.6 | 31.0 | 0.05 | 1.77  | —     | 1.77  | 1.62   | —      | 1.62   | —    | 5,532 | 5,532 | 0.22 | 0.04 | —    | 5,551 |
| 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)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                             |      |      |      |      |         |         |      |      |         |      |      |   |       |       |      |         |      |       |
|-----------------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|---------|------|-------|
| Off-Road Equipment          | 4.56 | 3.83 | 34.6 | 31.0 | 0.05    | 1.77    | —    | 1.77 | 1.62    | —    | 1.62 | — | 5,532 | 5,532 | 0.22 | 0.04    | —    | 5,551 |
| 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  |
| Average Daily               | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 1.62 | 1.36 | 12.3 | 11.0 | 0.02    | 0.63    | —    | 0.63 | 0.58    | —    | 0.58 | — | 1,959 | 1,959 | 0.08 | 0.02    | —    | 1,966 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 2.01 | 2.01 | —       | 0.95 | 0.95 | — | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.29 | 0.25 | 2.24 | 2.00 | < 0.005 | 0.11    | —    | 0.11 | 0.10    | —    | 0.10 | — | 324   | 324   | 0.01 | < 0.005 | —    | 326   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 0.37 | 0.37 | —       | 0.17 | 0.17 | — | —     | —     | —    | —       | —    | —     |
| 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 | 0.08 | 0.07 | 1.26 | 0.00    | 0.00    | 0.23 | 0.23 | 0.00    | 0.05 | 0.05 | — | 242   | 242   | 0.01 | 0.01    | 0.83 | 245   |
| Vendor                      | 0.03 | 0.01 | 0.30 | 0.16 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.02 | 0.03 | — | 273   | 273   | 0.02 | 0.04    | 0.72 | 287   |
| 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              | 0.08    | 0.07    | 0.08 | 0.95 | 0.00    | 0.00    | 0.23    | 0.23 | 0.00    | 0.05    | 0.05    | — | 222  | 222  | < 0.005 | 0.01    | 0.02 | 224  |
| Vendor              | 0.03    | 0.01    | 0.31 | 0.16 | < 0.005 | < 0.005 | 0.08    | 0.08 | < 0.005 | 0.02    | 0.03    | — | 273  | 273  | 0.02    | 0.04    | 0.02 | 286  |
| 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              | 0.03    | 0.03    | 0.03 | 0.35 | 0.00    | 0.00    | 0.08    | 0.08 | 0.00    | 0.02    | 0.02    | — | 79.6 | 79.6 | < 0.005 | < 0.005 | 0.13 | 80.6 |
| Vendor              | 0.01    | < 0.005 | 0.11 | 0.06 | < 0.005 | < 0.005 | 0.03    | 0.03 | < 0.005 | 0.01    | 0.01    | — | 96.7 | 96.7 | 0.01    | 0.01    | 0.11 | 101  |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —    | —       | —       | —       | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | < 0.005 | 0.01 | 0.06 | 0.00    | 0.00    | 0.01    | 0.01 | 0.00    | < 0.005 | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 0.02 | 13.4 |
| Vendor              | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 16.0 | 16.0 | < 0.005 | < 0.005 | 0.02 | 16.8 |
| 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. Grading (2026) - Unmitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 4.03 | 3.39 | 30.0 | 28.7 | 0.06 | 1.38  | —     | 1.38  | 1.27   | —      | 1.27   | —    | 6,715 | 6,715 | 0.27 | 0.05 | —    | 6,738 |
| 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,<br>Winter<br>(Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment             | 4.03 | 3.39 | 30.0 | 28.7 | 0.06    | 1.38 | —    | 1.38 | 1.27 | —    | 1.27 | — | 6,715 | 6,715 | 0.27 | 0.05    | —    | 6,738 |
| Dust From<br>Material<br>Movement | —    | —    | —    | —    | —       | —    | 2.67 | 2.67 | —    | 0.98 | 0.98 | — | —     | —     | —    | —       | —    | —     |
| Onsite<br>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<br>Daily                  | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment             | 1.45 | 1.22 | 10.8 | 10.3 | 0.02    | 0.50 | —    | 0.50 | 0.46 | —    | 0.46 | — | 2,418 | 2,418 | 0.10 | 0.02    | —    | 2,426 |
| Dust From<br>Material<br>Movement | —    | —    | —    | —    | —       | —    | 0.96 | 0.96 | —    | 0.35 | 0.35 | — | —     | —     | —    | —       | —    | —     |
| Onsite<br>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<br>Equipment             | 0.26 | 0.22 | 1.97 | 1.88 | < 0.005 | 0.09 | —    | 0.09 | 0.08 | —    | 0.08 | — | 400   | 400   | 0.02 | < 0.005 | —    | 402   |
| Dust From<br>Material<br>Movement | —    | —    | —    | —    | —       | —    | 0.18 | 0.18 | —    | 0.06 | 0.06 | — | —     | —     | —    | —       | —    | —     |
| Onsite<br>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,<br>Summer<br>(Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Worker                            | 0.10 | 0.09 | 0.08 | 1.44 | 0.00    | 0.00 | 0.26 | 0.26 | 0.00 | 0.06 | 0.06 | — | 276   | 276   | 0.01 | 0.01    | 0.94 | 280   |



|                           |         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor                    | 0.07    | 0.01    | 0.79 | 0.43 | 0.01    | 0.01    | 0.21 | 0.22 | 0.01    | 0.06    | 0.07    | — | 728  | 728  | 0.05    | 0.11    | 1.92 | 765  |
| 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,<br>Winter<br>(Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                    | 0.09    | 0.08    | 0.09 | 1.09 | 0.00    | 0.00    | 0.26 | 0.26 | 0.00    | 0.06    | 0.06    | — | 253  | 253  | < 0.005 | 0.01    | 0.02 | 256  |
| Vendor                    | 0.07    | 0.01    | 0.82 | 0.43 | 0.01    | 0.01    | 0.21 | 0.22 | 0.01    | 0.06    | 0.07    | — | 728  | 728  | 0.05    | 0.11    | 0.05 | 763  |
| 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<br>Daily          | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                    | 0.03    | 0.03    | 0.03 | 0.41 | 0.00    | 0.00    | 0.09 | 0.09 | 0.00    | 0.02    | 0.02    | — | 92.4 | 92.4 | < 0.005 | < 0.005 | 0.15 | 93.7 |
| Vendor                    | 0.03    | 0.01    | 0.30 | 0.15 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02    | 0.02    | — | 262  | 262  | 0.02    | 0.04    | 0.30 | 275  |
| Hauling                   | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                    | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                    | 0.01    | 0.01    | 0.01 | 0.08 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 15.3 | 15.3 | < 0.005 | < 0.005 | 0.02 | 15.5 |
| Vendor                    | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 43.4 | 43.4 | < 0.005 | 0.01    | 0.05 | 45.5 |
| 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 |

### 3.11. 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road<br>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)         | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 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  |
| Average Daily               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 2.76 | 2.32 | 20.0 | 20.2 | 0.04 | 0.91 | —    | 0.91 | 0.83 | —    | 0.83 | — | 4,797 | 4,797 | 0.19 | 0.04 | —    | 4,813 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 1.91 | 1.91 | —    | 0.70 | 0.70 | — | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 0.50 | 0.42 | 3.65 | 3.69 | 0.01 | 0.17 | —    | 0.17 | 0.15 | —    | 0.15 | — | 794   | 794   | 0.03 | 0.01 | —    | 797   |
| Dust From Material Movement | —    | —    | —    | —    | —    | —    | 0.35 | 0.35 | —    | 0.13 | 0.13 | — | —     | —     | —    | —    | —    | —     |
| 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    | 0.07 | 1.34 | 0.00    | 0.00    | 0.26 | 0.26 | 0.00    | 0.06 | 0.06 | — | 271  | 271  | < 0.005 | 0.01    | 0.85 | 274  |
| Vendor              | 0.07 | 0.01    | 0.75 | 0.41 | 0.01    | 0.01    | 0.21 | 0.22 | 0.01    | 0.06 | 0.07 | — | 714  | 714  | 0.05    | 0.11    | 1.71 | 749  |
| 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    | 0.08 | 1.01 | 0.00    | 0.00    | 0.26 | 0.26 | 0.00    | 0.06 | 0.06 | — | 248  | 248  | < 0.005 | 0.01    | 0.02 | 251  |
| Vendor              | 0.07 | 0.01    | 0.79 | 0.41 | 0.01    | 0.01    | 0.21 | 0.22 | 0.01    | 0.06 | 0.07 | — | 715  | 715  | 0.05    | 0.11    | 0.04 | 748  |
| 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              | 0.06 | 0.06    | 0.06 | 0.76 | 0.00    | 0.00    | 0.19 | 0.19 | 0.00    | 0.04 | 0.04 | — | 180  | 180  | < 0.005 | 0.01    | 0.26 | 182  |
| Vendor              | 0.05 | 0.01    | 0.56 | 0.29 | < 0.005 | 0.01    | 0.15 | 0.15 | 0.01    | 0.04 | 0.05 | — | 510  | 510  | 0.04    | 0.08    | 0.53 | 535  |
| Hauling             | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —    | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01 | 0.01    | 0.01 | 0.14 | 0.00    | 0.00    | 0.03 | 0.03 | 0.00    | 0.01 | 0.01 | — | 29.8 | 29.8 | < 0.005 | < 0.005 | 0.04 | 30.1 |
| Vendor              | 0.01 | < 0.005 | 0.10 | 0.05 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 84.5 | 84.5 | 0.01    | 0.01    | 0.09 | 88.5 |
| 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 |

### 3.13. Grading (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          | 3.73 | 3.14 | 26.4 | 28.2 | 0.06    | 1.18 | —    | 1.18 | 1.08 | —    | 1.08 | — | 6,715 | 6,715 | 0.27 | 0.05    | —    | 6,738 |
| 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)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 3.73 | 3.14 | 26.4 | 28.2 | 0.06    | 1.18 | —    | 1.18 | 1.08 | —    | 1.08 | — | 6,715 | 6,715 | 0.27 | 0.05    | —    | 6,738 |
| 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  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.72 | 0.60 | 5.07 | 5.40 | 0.01    | 0.23 | —    | 0.23 | 0.21 | —    | 0.21 | — | 1,288 | 1,288 | 0.05 | 0.01    | —    | 1,292 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.51 | 0.51 | —    | 0.19 | 0.19 | — | —     | —     | —    | —       | —    | —     |
| 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          | 0.13 | 0.11 | 0.93 | 0.99 | < 0.005 | 0.04 | —    | 0.04 | 0.04 | —    | 0.04 | — | 213   | 213   | 0.01 | < 0.005 | —    | 214   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.09 | 0.09 | —    | 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 |
| Offsite             | —       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.08    | 0.08    | 0.07    | 1.24 | 0.00    | 0.00    | 0.26 | 0.26 | 0.00    | 0.06    | 0.06    | — | 265  | 265  | < 0.005 | 0.01    | 0.76 | 269  |
| Vendor              | 0.07    | 0.01    | 0.72    | 0.40 | 0.01    | 0.01    | 0.21 | 0.22 | 0.01    | 0.06    | 0.06    | — | 698  | 698  | 0.05    | 0.11    | 1.52 | 732  |
| 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              | 0.08    | 0.07    | 0.07    | 0.93 | 0.00    | 0.00    | 0.26 | 0.26 | 0.00    | 0.06    | 0.06    | — | 243  | 243  | < 0.005 | 0.01    | 0.02 | 246  |
| Vendor              | 0.06    | 0.01    | 0.75    | 0.40 | 0.01    | 0.01    | 0.21 | 0.22 | 0.01    | 0.06    | 0.06    | — | 698  | 698  | 0.05    | 0.11    | 0.04 | 731  |
| 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    | 0.19 | 0.00    | 0.00    | 0.05 | 0.05 | 0.00    | 0.01    | 0.01    | — | 47.3 | 47.3 | < 0.005 | < 0.005 | 0.06 | 48.0 |
| Vendor              | 0.01    | < 0.005 | 0.14    | 0.08 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | — | 134  | 134  | 0.01    | 0.02    | 0.13 | 140  |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00    | 0.00    | 0.01 | 0.01 | 0.00    | < 0.005 | < 0.005 | — | 7.84 | 7.84 | < 0.005 | < 0.005 | 0.01 | 7.94 |
| Vendor              | < 0.005 | < 0.005 | 0.03    | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 22.2 | 22.2 | < 0.005 | < 0.005 | 0.02 | 23.2 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.15. 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 Equipment  | 0.67 | 0.56 | 5.03 | 7.31 | 0.01    | 0.17 | —    | 0.17 | 0.16 | —    | 0.16 | — | 1,369 | 1,369 | 0.06 | 0.01    | —    | 1,374 |
| 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  | 0.12 | 0.10 | 0.92 | 1.33 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 227   | 227   | 0.01 | < 0.005 | —    | 227   |
| 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              | 2.95 | 2.91 | 2.54 | 45.7 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 9,770 | 9,770 | 0.11 | 0.35    | 28.1 | 9,905 |
| Vendor              | 0.66 | 0.15 | 7.18 | 3.94 | 0.05    | 0.11 | 2.04 | 2.15 | 0.05 | 0.56 | 0.62 | — | 6,950 | 6,950 | 0.45 | 1.06    | 15.1 | 7,294 |
| 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              | 2.81 | 2.74 | 2.57 | 34.4 | 0.00 | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,964 | 8,964 | 0.13 | 0.35 | 0.73 | 9,072 |
| Vendor              | 0.65 | 0.14 | 7.49 | 4.01 | 0.05 | 0.11 | 2.04 | 2.15 | 0.05 | 0.56 | 0.62 | — | 6,955 | 6,955 | 0.45 | 1.06 | 0.39 | 7,283 |
| 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              | 1.45 | 1.42 | 1.50 | 19.0 | 0.00 | 0.00 | 4.99 | 4.99 | 0.00 | 1.17 | 1.17 | — | 4,731 | 4,731 | 0.07 | 0.18 | 6.33 | 4,794 |
| Vendor              | 0.34 | 0.07 | 3.90 | 2.07 | 0.03 | 0.06 | 1.06 | 1.12 | 0.03 | 0.29 | 0.32 | — | 3,619 | 3,619 | 0.23 | 0.55 | 3.40 | 3,793 |
| 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              | 0.26 | 0.26 | 0.27 | 3.46 | 0.00 | 0.00 | 0.91 | 0.91 | 0.00 | 0.21 | 0.21 | — | 783   | 783   | 0.01 | 0.03 | 1.05 | 794   |
| Vendor              | 0.06 | 0.01 | 0.71 | 0.38 | 0.01 | 0.01 | 0.19 | 0.20 | 0.01 | 0.05 | 0.06 | — | 599   | 599   | 0.04 | 0.09 | 0.56 | 628   |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

### 3.17. Building Construction (2029) - Unmitigated

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

| Location            | 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  | 1.25 | 1.04 | 9.28 | 14.0 | 0.03 | 0.30  | —     | 0.30  | 0.28   | —      | 0.28   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| 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) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

## 15585 - Glen Helen Specific Plan Amendment (Construction) Detailed Report, 4/11/2024

|                     |      |      |      |       |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|---------------------|------|------|------|-------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Off-Road Equipment  | 1.25 | 1.04 | 9.28 | 14.0  | 0.03    | 0.30 | —    | 0.30 | 0.28 | —    | 0.28 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.89 | 0.74 | 6.63 | 10.00 | 0.02    | 0.21 | —    | 0.21 | 0.20 | —    | 0.20 | — | 1,878 | 1,878 | 0.08 | 0.02    | —    | 1,885 |
| 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  | 0.16 | 0.14 | 1.21 | 1.82  | < 0.005 | 0.04 | —    | 0.04 | 0.04 | —    | 0.04 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 2.81 | 2.76 | 2.22 | 42.7  | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 9,593 | 9,593 | 0.10 | 0.35    | 25.1 | 9,725 |
| Vendor              | 0.60 | 0.15 | 6.87 | 3.77  | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,768 | 6,768 | 0.44 | 1.01    | 13.3 | 7,094 |
| 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              | 2.66 | 2.30 | 2.56 | 32.2  | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,803 | 8,803 | 0.11 | 0.35    | 0.65 | 8,911 |
| Vendor              | 0.59 | 0.14 | 7.13 | 3.82  | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,773 | 6,773 | 0.44 | 1.01    | 0.35 | 7,085 |
| 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              | 1.89 | 1.64 | 1.83 | 24.3  | 0.00    | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 6,376 | 6,376 | 0.08 | 0.25    | 7.73 | 6,460 |
| Vendor              | 0.42 | 0.10 | 5.13 | 2.72  | 0.04    | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 4,836 | 4,836 | 0.32 | 0.72    | 4.11 | 5,063 |



|         |      |      |      |      |      |      |      |      |      |      |      |   |       |       |      |      |      |       |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| 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  | 0.34 | 0.30 | 0.33 | 4.43 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 1,056 | 1,056 | 0.01 | 0.04 | 1.28 | 1,070 |
| Vendor  | 0.08 | 0.02 | 0.94 | 0.50 | 0.01 | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 801   | 801   | 0.05 | 0.12 | 0.68 | 838   |
| 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  |

### 3.19. Building Construction (2030) - 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.21 | 1.02 | 9.07 | 14.0 | 0.03 | 0.28  | —     | 0.28  | 0.26   | —      | 0.26   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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,<br>Winter<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.21 | 1.02 | 9.07 | 14.0 | 0.03 | 0.28  | —     | 0.28  | 0.26   | —      | 0.26   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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<br>Daily          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 0.87 | 0.73 | 6.48 | 9.99 | 0.02 | 0.20  | —     | 0.20  | 0.19   | —      | 0.19   | —    | 1,878 | 1,878 | 0.08 | 0.02 | —    | 1,885 |
| Onsite<br>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  | 0.16 | 0.13 | 1.18 | 1.82 | < 0.005 | 0.04 | —    | 0.04 | 0.03 | —    | 0.03 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 2.68 | 2.33 | 1.91 | 39.7 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 9,428 | 9,428 | 0.10 | 0.35    | 22.3 | 9,557 |
| Vendor              | 0.54 | 0.14 | 6.56 | 3.65 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,570 | 6,570 | 0.38 | 1.01    | 11.6 | 6,893 |
| 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              | 2.55 | 2.20 | 2.22 | 30.0 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,654 | 8,654 | 0.11 | 0.35    | 0.58 | 8,761 |
| Vendor              | 0.53 | 0.13 | 6.88 | 3.71 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,575 | 6,575 | 0.38 | 1.01    | 0.30 | 6,886 |
| 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              | 1.81 | 1.56 | 1.59 | 22.5 | 0.00    | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 6,267 | 6,267 | 0.08 | 0.25    | 6.87 | 6,350 |
| Vendor              | 0.38 | 0.10 | 4.91 | 2.63 | 0.04    | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 4,695 | 4,695 | 0.27 | 0.72    | 3.58 | 4,920 |
| 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              | 0.33 | 0.28 | 0.29 | 4.11 | 0.00    | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 1,038 | 1,038 | 0.01 | 0.04    | 1.14 | 1,051 |
| Vendor              | 0.07 | 0.02 | 0.90 | 0.48 | 0.01    | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 777   | 777   | 0.05 | 0.12    | 0.59 | 815   |
| 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  |

### 3.21. Building Construction (2031) - 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  | 1.19 | 0.99 | 8.77 | 13.9 | 0.03    | 0.26 | —    | 0.26 | 0.24 | —    | 0.24 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 1.19 | 0.99 | 8.77 | 13.9 | 0.03    | 0.26 | —    | 0.26 | 0.24 | —    | 0.24 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.85 | 0.71 | 6.27 | 9.95 | 0.02    | 0.19 | —    | 0.19 | 0.17 | —    | 0.17 | — | 1,878 | 1,878 | 0.08 | 0.02    | —    | 1,885 |
| 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  | 0.15 | 0.13 | 1.14 | 1.82 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 2.53 | 2.18 | 1.88 | 37.0 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 9,277 | 9,277 | 0.08 | 0.05    | 19.8 | 9,314 |
| Vendor              | 0.53 | 0.14 | 6.30 | 3.48 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,358 | 6,358 | 0.38 | 0.96    | 9.99 | 6,663 |
| 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              | 2.40 | 2.05 | 1.91 | 27.9 | 0.00 | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,517 | 8,517 | 0.10 | 0.35 | 0.51 | 8,624 |
| Vendor              | 0.52 | 0.13 | 6.57 | 3.53 | 0.05 | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,363 | 6,363 | 0.38 | 0.96 | 0.26 | 6,658 |
| 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              | 1.73 | 1.48 | 1.36 | 21.0 | 0.00 | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 6,168 | 6,168 | 0.07 | 0.25 | 6.10 | 6,250 |
| Vendor              | 0.38 | 0.10 | 4.69 | 2.50 | 0.04 | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 4,543 | 4,543 | 0.27 | 0.68 | 3.09 | 4,756 |
| 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              | 0.32 | 0.27 | 0.25 | 3.83 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 1,021 | 1,021 | 0.01 | 0.04 | 1.01 | 1,035 |
| Vendor              | 0.07 | 0.02 | 0.86 | 0.46 | 0.01 | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 752   | 752   | 0.05 | 0.11 | 0.51 | 787   |
| 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  |

### 3.23. Building Construction (2032) - 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  | 1.16 | 0.97 | 8.50 | 13.9 | 0.03 | 0.24  | —     | 0.24  | 0.22   | —      | 0.22   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| 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  | 1.16 | 0.97 | 8.50 | 13.9 | 0.03    | 0.24 | —    | 0.24 | 0.22 | —    | 0.22 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.83 | 0.69 | 6.09 | 9.94 | 0.02    | 0.17 | —    | 0.17 | 0.16 | —    | 0.16 | — | 1,883 | 1,883 | 0.08 | 0.02    | —    | 1,890 |
| 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  | 0.15 | 0.13 | 1.11 | 1.81 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 312   | 312   | 0.01 | < 0.005 | —    | 313   |
| 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              | 2.44 | 2.09 | 1.56 | 35.0 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 9,142 | 9,142 | 0.08 | 0.05    | 17.4 | 9,176 |
| Vendor              | 0.47 | 0.14 | 6.05 | 3.36 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,147 | 6,147 | 0.33 | 0.96    | 8.45 | 6,449 |
| 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              | 2.02 | 1.97 | 1.89 | 26.1 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,393 | 8,393 | 0.10 | 0.05    | 0.45 | 8,410 |
| Vendor              | 0.46 | 0.13 | 6.32 | 3.41 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 6,152 | 6,152 | 0.33 | 0.96    | 0.22 | 6,445 |
| 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              | 1.44 | 1.40 | 1.35 | 19.7 | 0.00    | 0.00 | 6.86 | 6.86 | 0.00 | 1.61 | 1.61 | — | 6,095 | 6,095 | 0.07 | 0.03    | 5.38 | 6,112 |
| Vendor              | 0.34 | 0.10 | 4.52 | 2.42 | 0.04    | 0.04 | 1.46 | 1.50 | 0.04 | 0.40 | 0.44 | — | 4,404 | 4,404 | 0.23 | 0.68    | 2.63 | 4,617 |

|         |      |      |      |      |      |      |      |      |      |      |      |   |       |       |      |      |      |       |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| 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  | 0.26 | 0.26 | 0.25 | 3.60 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 1,009 | 1,009 | 0.01 | 0.01 | 0.89 | 1,012 |
| Vendor  | 0.06 | 0.02 | 0.83 | 0.44 | 0.01 | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 729   | 729   | 0.04 | 0.11 | 0.43 | 764   |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

### 3.25. Building Construction (2033) - 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.13 | 0.95 | 8.27 | 13.9 | 0.03 | 0.22  | —     | 0.22  | 0.20   | —      | 0.20   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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,<br>Winter<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.13 | 0.95 | 8.27 | 13.9 | 0.03 | 0.22  | —     | 0.22  | 0.20   | —      | 0.20   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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<br>Daily          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 0.81 | 0.68 | 5.91 | 9.90 | 0.02 | 0.16  | —     | 0.16  | 0.15   | —      | 0.15   | —    | 1,878 | 1,878 | 0.08 | 0.02 | —    | 1,885 |
| Onsite<br>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  | 0.15 | 0.12 | 1.08 | 1.81 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 2.04 | 2.00 | 1.54 | 32.9 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 9,028 | 9,028 | 0.08 | 0.05    | 15.2 | 9,060 |
| Vendor              | 0.47 | 0.14 | 5.81 | 3.25 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,941 | 5,941 | 0.32 | 0.90    | 7.21 | 6,225 |
| 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              | 1.92 | 1.88 | 1.57 | 24.6 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,290 | 8,290 | 0.10 | 0.05    | 0.40 | 8,307 |
| Vendor              | 0.46 | 0.13 | 6.08 | 3.30 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,946 | 5,946 | 0.32 | 0.90    | 0.19 | 6,223 |
| 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              | 1.37 | 1.34 | 1.12 | 18.6 | 0.00    | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 6,003 | 6,003 | 0.07 | 0.03    | 4.69 | 6,020 |
| Vendor              | 0.33 | 0.10 | 4.37 | 2.33 | 0.04    | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 4,245 | 4,245 | 0.23 | 0.64    | 2.22 | 4,445 |
| 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              | 0.25 | 0.24 | 0.21 | 3.40 | 0.00    | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 994   | 994   | 0.01 | 0.01    | 0.78 | 997   |
| Vendor              | 0.06 | 0.02 | 0.80 | 0.43 | 0.01    | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 703   | 703   | 0.04 | 0.11    | 0.37 | 736   |
| 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  |

### 3.27. Building Construction (2034) - 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  | 1.11 | 0.93 | 8.11 | 13.8 | 0.03    | 0.21 | —    | 0.21 | 0.19 | —    | 0.19 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 1.11 | 0.93 | 8.11 | 13.8 | 0.03    | 0.21 | —    | 0.21 | 0.19 | —    | 0.19 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.80 | 0.67 | 5.79 | 9.89 | 0.02    | 0.15 | —    | 0.15 | 0.14 | —    | 0.14 | — | 1,878 | 1,878 | 0.08 | 0.02    | —    | 1,885 |
| 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  | 0.15 | 0.12 | 1.06 | 1.81 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 1.91 | 1.88 | 1.23 | 31.2 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,916 | 8,916 | 0.08 | 0.05    | 13.3 | 8,946 |
| Vendor              | 0.47 | 0.14 | 5.61 | 3.13 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,740 | 5,740 | 0.32 | 0.90    | 6.06 | 6,021 |
| 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              | 1.83 | 1.79 | 1.56 | 23.4 | 0.00 | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,188 | 8,188 | 0.08 | 0.05 | 0.34 | 8,205 |
| Vendor              | 0.45 | 0.13 | 5.89 | 3.18 | 0.05 | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,745 | 5,745 | 0.32 | 0.90 | 0.16 | 6,022 |
| 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              | 1.29 | 1.26 | 1.11 | 17.6 | 0.00 | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 5,929 | 5,929 | 0.06 | 0.03 | 4.08 | 5,945 |
| Vendor              | 0.33 | 0.09 | 4.20 | 2.25 | 0.04 | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 4,102 | 4,102 | 0.23 | 0.64 | 1.87 | 4,301 |
| 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              | 0.24 | 0.23 | 0.20 | 3.21 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 982   | 982   | 0.01 | 0.01 | 0.68 | 984   |
| Vendor              | 0.06 | 0.02 | 0.77 | 0.41 | 0.01 | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 679   | 679   | 0.04 | 0.11 | 0.31 | 712   |
| 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  |

### 3.29. Building Construction (2035) - 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  | 1.09 | 0.92 | 7.90 | 13.8 | 0.03 | 0.19  | —     | 0.19  | 0.18   | —      | 0.18   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| 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  | 1.09 | 0.92 | 7.90 | 13.8 | 0.03    | 0.19 | —    | 0.19 | 0.18 | —    | 0.18 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.78 | 0.65 | 5.64 | 9.83 | 0.02    | 0.14 | —    | 0.14 | 0.13 | —    | 0.13 | — | 1,878 | 1,878 | 0.08 | 0.02    | —    | 1,885 |
| 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  | 0.14 | 0.12 | 1.03 | 1.79 | < 0.005 | 0.03 | —    | 0.03 | 0.02 | —    | 0.02 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 1.88 | 1.84 | 1.23 | 29.5 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,817 | 8,817 | 0.06 | 0.05    | 11.5 | 8,845 |
| Vendor              | 0.41 | 0.14 | 5.42 | 3.01 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,547 | 5,547 | 0.26 | 0.84    | 5.08 | 5,810 |
| 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              | 1.79 | 1.76 | 1.24 | 22.0 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,098 | 8,098 | 0.08 | 0.05    | 0.30 | 8,114 |
| Vendor              | 0.39 | 0.13 | 5.70 | 3.06 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,552 | 5,552 | 0.26 | 0.85    | 0.13 | 5,812 |
| 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              | 1.27 | 1.25 | 1.10 | 16.8 | 0.00    | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 5,864 | 5,864 | 0.06 | 0.03    | 3.56 | 5,879 |
| Vendor              | 0.29 | 0.09 | 4.06 | 2.17 | 0.04    | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 3,964 | 3,964 | 0.19 | 0.60    | 1.56 | 4,150 |

|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| 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  | 0.23 | 0.23 | 0.20 | 3.06 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 971  | 971  | 0.01 | 0.01 | 0.59 | 973  |
| Vendor  | 0.05 | 0.02 | 0.74 | 0.40 | 0.01 | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 656  | 656  | 0.03 | 0.10 | 0.26 | 687  |
| 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 |

### 3.31. Building Construction (2036) - 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.07 | 0.90 | 7.66 | 13.7 | 0.03 | 0.18  | —     | 0.18  | 0.17   | —      | 0.17   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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,<br>Winter<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.07 | 0.90 | 7.66 | 13.7 | 0.03 | 0.18  | —     | 0.18  | 0.17   | —      | 0.17   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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<br>Daily          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 0.77 | 0.64 | 5.49 | 9.79 | 0.02 | 0.13  | —     | 0.13  | 0.12   | —      | 0.12   | —    | 1,883 | 1,883 | 0.08 | 0.02 | —    | 1,890 |
| Onsite<br>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  | 0.14 | 0.12 | 1.00 | 1.79 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 312   | 312   | 0.01 | < 0.005 | —    | 313   |
| 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              | 1.81 | 1.78 | 1.21 | 28.2 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,730 | 8,730 | 0.06 | 0.05    | 9.92 | 8,756 |
| Vendor              | 0.40 | 0.14 | 5.29 | 2.90 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,366 | 5,366 | 0.26 | 0.84    | 4.23 | 5,628 |
| 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              | 1.73 | 1.70 | 1.23 | 21.2 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,018 | 8,018 | 0.08 | 0.05    | 0.26 | 8,035 |
| Vendor              | 0.39 | 0.13 | 5.51 | 2.95 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,371 | 5,371 | 0.26 | 0.85    | 0.11 | 5,631 |
| 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              | 1.24 | 1.22 | 0.88 | 16.1 | 0.00    | 0.00 | 6.86 | 6.86 | 0.00 | 1.61 | 1.61 | — | 5,822 | 5,822 | 0.06 | 0.03    | 3.07 | 5,837 |
| Vendor              | 0.28 | 0.10 | 3.94 | 2.09 | 0.04    | 0.04 | 1.46 | 1.50 | 0.04 | 0.40 | 0.44 | — | 3,845 | 3,845 | 0.18 | 0.60    | 1.31 | 4,031 |
| 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              | 0.23 | 0.22 | 0.16 | 2.93 | 0.00    | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 964   | 964   | 0.01 | 0.01    | 0.51 | 966   |
| Vendor              | 0.05 | 0.02 | 0.72 | 0.38 | 0.01    | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 637   | 637   | 0.03 | 0.10    | 0.22 | 667   |
| 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  |

### 3.33. Building Construction (2037) - 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  | 1.06 | 0.88 | 7.51 | 13.5 | 0.03    | 0.17 | —    | 0.17 | 0.16 | —    | 0.16 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 1.06 | 0.88 | 7.51 | 13.5 | 0.03    | 0.17 | —    | 0.17 | 0.16 | —    | 0.16 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.75 | 0.63 | 5.36 | 9.68 | 0.02    | 0.12 | —    | 0.12 | 0.11 | —    | 0.11 | — | 1,878 | 1,878 | 0.08 | 0.02    | —    | 1,885 |
| 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  | 0.14 | 0.12 | 0.98 | 1.77 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 1.73 | 1.70 | 1.19 | 27.1 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,652 | 8,652 | 0.06 | 0.05    | 8.50 | 8,676 |
| Vendor              | 0.40 | 0.14 | 5.11 | 2.84 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,205 | 5,205 | 0.25 | 0.79    | 3.50 | 5,450 |
| 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              | 1.65 | 1.62 | 1.23 | 20.1 | 0.00 | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 7,947 | 7,947 | 0.06 | 0.05 | 0.22 | 7,963 |
| Vendor              | 0.39 | 0.13 | 5.38 | 2.89 | 0.05 | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,210 | 5,210 | 0.25 | 0.79 | 0.09 | 5,452 |
| 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              | 1.18 | 1.15 | 0.88 | 15.2 | 0.00 | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 5,755 | 5,755 | 0.05 | 0.03 | 2.63 | 5,769 |
| Vendor              | 0.28 | 0.09 | 3.84 | 2.05 | 0.04 | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 3,719 | 3,719 | 0.18 | 0.56 | 1.08 | 3,893 |
| 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              | 0.21 | 0.21 | 0.16 | 2.78 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 953   | 953   | 0.01 | 0.01 | 0.44 | 955   |
| Vendor              | 0.05 | 0.02 | 0.70 | 0.37 | 0.01 | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 616   | 616   | 0.03 | 0.09 | 0.18 | 645   |
| 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  |

### 3.35. Building Construction (2038) - 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  | 1.05 | 0.88 | 7.41 | 13.5 | 0.03 | 0.16  | —     | 0.16  | 0.15   | —      | 0.15   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| 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  | 1.05 | 0.88 | 7.41 | 13.5 | 0.03    | 0.16 | —    | 0.16 | 0.15 | —    | 0.15 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.75 | 0.63 | 5.29 | 9.65 | 0.02    | 0.12 | —    | 0.12 | 0.11 | —    | 0.11 | — | 1,878 | 1,878 | 0.08 | 0.02    | —    | 1,885 |
| 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  | 0.14 | 0.11 | 0.97 | 1.76 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 1.65 | 1.62 | 0.89 | 26.1 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,571 | 8,571 | 0.06 | 0.05    | 7.30 | 8,594 |
| Vendor              | 0.34 | 0.14 | 4.97 | 2.73 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,057 | 5,057 | 0.25 | 0.79    | 2.87 | 5,301 |
| 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              | 1.62 | 1.58 | 1.21 | 19.7 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 7,873 | 7,873 | 0.06 | 0.05    | 0.19 | 7,889 |
| Vendor              | 0.33 | 0.13 | 5.25 | 2.78 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 5,062 | 5,062 | 0.25 | 0.79    | 0.07 | 5,304 |
| 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              | 1.15 | 1.13 | 0.86 | 14.7 | 0.00    | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 5,701 | 5,701 | 0.05 | 0.03    | 2.25 | 5,715 |
| Vendor              | 0.24 | 0.09 | 3.74 | 1.97 | 0.04    | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 3,614 | 3,614 | 0.18 | 0.56    | 0.88 | 3,787 |

|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| 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  | 0.21 | 0.21 | 0.16 | 2.69 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 944  | 944  | 0.01 | 0.01 | 0.37 | 946  |
| Vendor  | 0.04 | 0.02 | 0.68 | 0.36 | 0.01 | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 598  | 598  | 0.03 | 0.09 | 0.15 | 627  |
| 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 |

### 3.37. Building Construction (2039) - 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.04 | 0.87 | 7.28 | 13.4 | 0.03 | 0.16  | —     | 0.16  | 0.15   | —      | 0.15   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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,<br>Winter<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 1.04 | 0.87 | 7.28 | 13.4 | 0.03 | 0.16  | —     | 0.16  | 0.15   | —      | 0.15   | —    | 2,629 | 2,629 | 0.11 | 0.02 | —    | 2,638 |
| Onsite<br>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<br>Daily          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 0.74 | 0.62 | 5.20 | 9.60 | 0.02 | 0.11  | —     | 0.11  | 0.10   | —      | 0.10   | —    | 1,878 | 1,878 | 0.08 | 0.02 | —    | 1,885 |
| Onsite<br>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  | 0.14 | 0.11 | 0.95 | 1.75 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 311   | 311   | 0.01 | < 0.005 | —    | 312   |
| 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              | 1.58 | 1.25 | 0.88 | 25.4 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,510 | 8,510 | 0.06 | 0.05    | 6.23 | 8,533 |
| Vendor              | 0.34 | 0.14 | 4.85 | 2.67 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 4,926 | 4,926 | 0.19 | 0.74    | 2.31 | 5,153 |
| 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              | 1.53 | 1.20 | 1.21 | 19.0 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 7,818 | 7,818 | 0.06 | 0.05    | 0.16 | 7,834 |
| Vendor              | 0.33 | 0.13 | 5.13 | 2.72 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 4,932 | 4,932 | 0.19 | 0.74    | 0.06 | 5,156 |
| 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              | 1.08 | 0.86 | 0.86 | 14.2 | 0.00    | 0.00 | 6.85 | 6.85 | 0.00 | 1.60 | 1.60 | — | 5,661 | 5,661 | 0.05 | 0.03    | 1.91 | 5,674 |
| Vendor              | 0.24 | 0.09 | 3.65 | 1.92 | 0.04    | 0.04 | 1.46 | 1.49 | 0.04 | 0.40 | 0.44 | — | 3,520 | 3,520 | 0.14 | 0.53    | 0.71 | 3,681 |
| 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              | 0.20 | 0.16 | 0.16 | 2.59 | 0.00    | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 937   | 937   | 0.01 | 0.01    | 0.32 | 939   |
| Vendor              | 0.04 | 0.02 | 0.67 | 0.35 | 0.01    | 0.01 | 0.27 | 0.27 | 0.01 | 0.07 | 0.08 | — | 583   | 583   | 0.02 | 0.09    | 0.12 | 609   |
| 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  |

### 3.39. Building Construction (2040) - 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  | 1.03 | 0.86 | 7.20 | 13.4 | 0.03    | 0.15 | —    | 0.15 | 0.14 | —    | 0.14 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 1.03 | 0.86 | 7.20 | 13.4 | 0.03    | 0.15 | —    | 0.15 | 0.14 | —    | 0.14 | — | 2,629 | 2,629 | 0.11 | 0.02    | —    | 2,638 |
| 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  | 0.73 | 0.61 | 5.13 | 9.56 | 0.02    | 0.11 | —    | 0.11 | 0.10 | —    | 0.10 | — | 1,873 | 1,873 | 0.08 | 0.02    | —    | 1,879 |
| 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  | 0.13 | 0.11 | 0.94 | 1.74 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 310   | 310   | 0.01 | < 0.005 | —    | 311   |
| 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              | 1.50 | 1.19 | 0.88 | 24.7 | 0.00    | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 8,458 | 8,458 | 0.05 | 0.05    | 5.28 | 8,479 |
| Vendor              | 0.34 | 0.14 | 4.77 | 2.62 | 0.05    | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 4,810 | 4,810 | 0.19 | 0.74    | 1.84 | 5,036 |
| 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              | 1.49 | 1.15 | 0.89 | 18.6 | 0.00 | 0.00 | 9.63 | 9.63 | 0.00 | 2.26 | 2.26 | — | 7,770 | 7,770 | 0.06 | 0.05 | 0.14 | 7,786 |
| Vendor              | 0.32 | 0.13 | 5.00 | 2.67 | 0.05 | 0.05 | 2.04 | 2.10 | 0.05 | 0.56 | 0.62 | — | 4,815 | 4,815 | 0.19 | 0.74 | 0.05 | 5,039 |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Worker              | 1.04 | 0.81 | 0.64 | 13.9 | 0.00 | 0.00 | 6.83 | 6.83 | 0.00 | 1.60 | 1.60 | — | 5,611 | 5,611 | 0.05 | 0.03 | 1.62 | 5,624 |
| Vendor              | 0.23 | 0.10 | 3.55 | 1.88 | 0.04 | 0.04 | 1.45 | 1.49 | 0.04 | 0.40 | 0.44 | — | 3,428 | 3,428 | 0.13 | 0.52 | 0.57 | 3,588 |
| 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              | 0.19 | 0.15 | 0.12 | 2.53 | 0.00 | 0.00 | 1.25 | 1.25 | 0.00 | 0.29 | 0.29 | — | 929   | 929   | 0.01 | 0.01 | 0.27 | 931   |
| Vendor              | 0.04 | 0.02 | 0.65 | 0.34 | 0.01 | 0.01 | 0.26 | 0.27 | 0.01 | 0.07 | 0.08 | — | 567   | 567   | 0.02 | 0.09 | 0.09 | 594   |
| 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  |

### 3.41. Paving (2039) - 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  | 0.58 | 0.49 | 5.31 | 9.75 | 0.01 | 0.11  | —     | 0.11  | 0.10   | —      | 0.10   | —    | 1,511 | 1,511 | 0.06 | 0.01 | —    | 1,516 |
| Paving              | —    | 0.63 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

|                     |      |      |      |      |         |         |      |         |         |      |         |   |       |       |         |         |         |       |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|---------|-------|
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | 0.58 | 0.49 | 5.31 | 9.75 | 0.01    | 0.11    | —    | 0.11    | 0.10    | —    | 0.10    | — | 1,511 | 1,511 | 0.06    | 0.01    | —       | 1,516 |
| Paving              | —    | 0.63 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | 0.11 | 0.09 | 1.00 | 1.83 | < 0.005 | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 284   | 284   | 0.01    | < 0.005 | —       | 285   |
| Paving              | —    | 0.12 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | 0.02 | 0.02 | 0.18 | 0.33 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 47.0  | 47.0  | < 0.005 | < 0.005 | —       | 47.1  |
| Paving              | —    | 0.02 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.03 | 0.03 | 0.02 | 0.52 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 173   | 173   | < 0.005 | < 0.005 | 0.13    | 174   |
| 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              | 0.03 | 0.02 | 0.02 | 0.39 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 159   | 159   | < 0.005 | < 0.005 | < 0.005 | 160   |

|               |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |         |      |
|---------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|---------|------|
| 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    | < 0.005 | < 0.005 | 0.08 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01    | 0.01    | — | 30.3 | 30.3 | < 0.005 | < 0.005 | 0.01    | 30.4 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 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 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.02 | 5.02 | < 0.005 | < 0.005 | < 0.005 | 5.03 |
| 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 |

### 3.43. Paving (2040) - 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  | 0.58 | 0.49 | 5.27 | 9.75 | 0.01 | 0.11  | —     | 0.11  | 0.10   | —      | 0.10   | —    | 1,511 | 1,511 | 0.06 | 0.01 | —    | 1,516 |
| Paving              | —    | 0.63 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.58 | 0.49 | 5.27 | 9.75 | 0.01 | 0.11  | —     | 0.11  | 0.10   | —      | 0.10   | —    | 1,511 | 1,511 | 0.06 | 0.01 | —    | 1,516 |
| Paving              | —    | 0.63 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |         |       |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|---------|-------|
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | 0.41 | 0.35 | 3.76 | 6.94 | 0.01    | 0.08 | —    | 0.08 | 0.07 | —    | 0.07 | — | 1,076 | 1,076 | 0.04    | 0.01    | —       | 1,080 |
| Paving              | —    | 0.45 | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —       | —     |
| 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  | 0.08 | 0.06 | 0.69 | 1.27 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 178   | 178   | 0.01    | < 0.005 | —       | 179   |
| Paving              | —    | 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  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.03 | 0.02 | 0.02 | 0.50 | 0.00    | 0.00 | 0.20 | 0.20 | 0.00 | 0.05 | 0.05 | — | 172   | 172   | < 0.005 | < 0.005 | 0.11    | 173   |
| 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              | 0.03 | 0.02 | 0.02 | 0.38 | 0.00    | 0.00 | 0.20 | 0.20 | 0.00 | 0.05 | 0.05 | — | 158   | 158   | < 0.005 | < 0.005 | < 0.005 | 159   |
| Vendor              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.02 | 0.02 | 0.01 | 0.28 | 0.00    | 0.00 | 0.14 | 0.14 | 0.00 | 0.03 | 0.03 | — | 114   | 114   | < 0.005 | < 0.005 | 0.03    | 115   |
| 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 | 0.05 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 18.9 | 18.9 | < 0.005 | < 0.005 | 0.01 | 19.0 |
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.45. Architectural Coating (2039) - 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,<br>Summer<br>(Max)     | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road<br>Equipment         | 0.14 | 0.12 | 0.99 | 1.46 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 178   | 178  | 0.01 | < 0.005 | —    | 179  |
| Architect<br>ural<br>Coatings | —    | 27.6 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Onsite<br>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,<br>Winter<br>(Max)     | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road<br>Equipment         | 0.14 | 0.12 | 0.99 | 1.46 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 178   | 178  | 0.01 | < 0.005 | —    | 179  |
| Architect<br>ural<br>Coatings | —    | 27.6 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Onsite<br>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<br>Daily              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |

|                        |         |         |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|------------------------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment     | 0.03    | 0.02    | 0.19 | 0.27 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 33.4  | 33.4  | < 0.005 | < 0.005 | —    | 33.6  |
| Architectural Coatings | —       | 5.19    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| 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     | < 0.005 | < 0.005 | 0.03 | 0.05 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 5.54  | 5.54  | < 0.005 | < 0.005 | —    | 5.56  |
| Architectural Coatings | —       | 0.95    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck           | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite                | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)    | —       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                 | 0.32    | 0.25    | 0.18 | 5.08 | 0.00    | 0.00    | 1.93 | 1.93    | 0.00    | 0.45 | 0.45    | — | 1,702 | 1,702 | 0.01    | 0.01    | 1.25 | 1,707 |
| 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                 | 0.31    | 0.24    | 0.24 | 3.79 | 0.00    | 0.00    | 1.93 | 1.93    | 0.00    | 0.45 | 0.45    | — | 1,564 | 1,564 | 0.01    | 0.01    | 0.03 | 1,567 |
| 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                 | 0.06    | 0.05    | 0.05 | 0.75 | 0.00    | 0.00    | 0.36 | 0.36    | 0.00    | 0.08 | 0.08    | — | 298   | 298   | < 0.005 | < 0.005 | 0.10 | 298   |
| Vendor                 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |



|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |         |         |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|---------|---------|------|------|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker  | 0.01 | 0.01 | 0.01 | 0.14 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 49.3 | 49.3 | < 0.005 | < 0.005 | 0.02 | 49.4 |
| Vendor  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 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 |

### 3.47. Architectural Coating (2040) - 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,<br>Summer<br>(Max)     | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —     | —    | —    | —       | —    | —    |
| Off-Road<br>Equipment         | 0.14 | 0.12 | 0.99 | 1.46 | < 0.005 | 0.01  | —     | 0.01  | < 0.005 | —      | < 0.005 | —    | 178   | 178  | 0.01 | < 0.005 | —    | 179  |
| Architect<br>ural<br>Coatings | —    | 27.6 | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —     | —    | —    | —       | —    | —    |
| Onsite<br>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,<br>Winter<br>(Max)     | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —     | —    | —    | —       | —    | —    |
| Off-Road<br>Equipment         | 0.14 | 0.12 | 0.99 | 1.46 | < 0.005 | 0.01  | —     | 0.01  | < 0.005 | —      | < 0.005 | —    | 178   | 178  | 0.01 | < 0.005 | —    | 179  |
| Architect<br>ural<br>Coatings | —    | 27.6 | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —     | —    | —    | —       | —    | —    |
| Onsite<br>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<br>Daily              | —    | —    | —    | —    | —       | —     | —     | —     | —       | —      | —       | —    | —     | —    | —    | —       | —    | —    |

|                        |      |      |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment     | 0.10 | 0.08 | 0.71 | 1.04 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 127   | 127   | 0.01    | < 0.005 | —    | 127   |
| Architectural Coatings | —    | 19.7 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                 | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment     | 0.02 | 0.02 | 0.13 | 0.19 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 21.0  | 21.0  | < 0.005 | < 0.005 | —    | 21.1  |
| Architectural Coatings | —    | 3.59 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| 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                 | 0.30 | 0.24 | 0.18 | 4.94 | 0.00    | 0.00    | 1.93 | 1.93    | 0.00    | 0.45 | 0.45    | — | 1,692 | 1,692 | 0.01    | 0.01    | 1.06 | 1,696 |
| 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                 | 0.30 | 0.23 | 0.18 | 3.71 | 0.00    | 0.00    | 1.93 | 1.93    | 0.00    | 0.45 | 0.45    | — | 1,554 | 1,554 | 0.01    | 0.01    | 0.03 | 1,557 |
| 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                 | 0.21 | 0.16 | 0.13 | 2.77 | 0.00    | 0.00    | 1.37 | 1.37    | 0.00    | 0.32 | 0.32    | — | 1,122 | 1,122 | 0.01    | 0.01    | 0.32 | 1,125 |
| 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  | 0.04 | 0.03 | 0.02 | 0.51 | 0.00 | 0.00 | 0.25 | 0.25 | 0.00 | 0.06 | 0.06 | — | 186  | 186  | < 0.005 | < 0.005 | 0.05 | 186  |
| 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

### 4.10. 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            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual          | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal        | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date   | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|------------|---------------|---------------------|-------------------|
| Demolition            | Demolition            | 9/2/2024   | 10/22/2025 | 5.00          | 298                 | 200               |
| Site Preparation      | Site Preparation      | 10/23/2025 | 6/30/2026  | 5.00          | 179                 | 120               |
| Grading               | Grading               | 7/1/2026   | 4/7/2028   | 5.00          | 463                 | 310               |
| Building Construction | Building Construction | 4/10/2028  | 12/29/2040 | 5.00          | 3,320               | 3100              |
| Paving                | Paving                | 9/27/2039  | 12/29/2040 | 5.00          | 329                 | 220               |
| Architectural Coating | Architectural Coating | 9/27/2039  | 12/29/2040 | 5.00          | 329                 | 220               |

## 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               | Scrapers                  | Diesel    | Average     | 2.00           | 8.00          | 423        | 0.48        |
| Grading               | Rubber Tired Dozers       | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Grading               | Crawler Tractors          | Diesel    | Average     | 2.00           | 8.00          | 87.0       | 0.43        |
| 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/Backhoes | 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       | 15.0                  | 10.2           | HHDT,MHDT     |
| Demolition            | Hauling      | 0.00                  | 20.0           | HHDT          |
| Demolition            | Onsite truck | —                     | —              | HHDT          |
| Site Preparation      | —            | —                     | —              | —             |
| Site Preparation      | Worker       | 17.5                  | 18.5           | LDA,LDT1,LDT2 |
| Site Preparation      | Vendor       | 9.00                  | 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       | 24.0                  | 10.2           | HHDT,MHDT     |
| Grading               | Hauling      | 0.00                  | 20.0           | HHDT          |
| Grading               | Onsite truck | —                     | —              | HHDT          |
| Building Construction | —            | —                     | —              | —             |
| Building Construction | Worker       | 736                   | 18.5           | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 239                   | 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       | 147  | 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                                     | 2,629,935                                    | 876,645                                      | 206,474                     |

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                 | —                                             | —                   |
| Site Preparation | —                      | —                      | 627                  | 0.00                                          | —                   |
| Grading          | —                      | —                      | 1,852                | 0.00                                          | —                   |
| Paving           | 0.00                   | 0.00                   | 0.00                 | 0.00                                          | 79.0                |

5.6.2. Construction Earthmoving Control Strategies

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



|                    |   |     |     |
|--------------------|---|-----|-----|
| Water Exposed Area | 3 | 74% | 74% |
|--------------------|---|-----|-----|

5.7. Construction Paving

| Land Use        | Area Paved (acres) | % Asphalt |
|-----------------|--------------------|-----------|
| Parking Lot     | 79.0               | 100%      |
| Industrial Park | 0.00               | 0%        |
| Industrial Park | 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     |
|------|--------------|-----|------|---------|
| 2024 | 0.00         | 532 | 0.03 | < 0.005 |
| 2025 | 0.00         | 532 | 0.03 | < 0.005 |
| 2026 | 0.00         | 532 | 0.03 | < 0.005 |
| 2027 | 0.00         | 532 | 0.03 | < 0.005 |
| 2028 | 0.00         | 532 | 0.03 | < 0.005 |
| 2029 | 0.00         | 532 | 0.03 | < 0.005 |
| 2030 | 0.00         | 532 | 0.03 | < 0.005 |
| 2031 | 0.00         | 532 | 0.03 | < 0.005 |
| 2032 | 0.00         | 532 | 0.03 | < 0.005 |
| 2033 | 0.00         | 532 | 0.03 | < 0.005 |
| 2034 | 0.00         | 532 | 0.03 | < 0.005 |
| 2035 | 0.00         | 532 | 0.03 | < 0.005 |
| 2036 | 0.00         | 532 | 0.03 | < 0.005 |
| 2037 | 0.00         | 532 | 0.03 | < 0.005 |
| 2038 | 0.00         | 532 | 0.03 | < 0.005 |
| 2039 | 0.00         | 532 | 0.03 | < 0.005 |

|      |      |     |      |         |
|------|------|-----|------|---------|
| 2040 | 0.00 | 532 | 0.03 | < 0.005 |
|------|------|-----|------|---------|

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 | 27.9                        | annual days of extreme heat                |
| Extreme Precipitation        | 12.0                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |

|          |      |                        |
|----------|------|------------------------|
| Wildfire | 21.2 | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

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

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

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

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 3              | 1                 | 1                       | 3                   |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Extreme Precipitation   | N/A | N/A | N/A | N/A |
| Sea Level Rise          | 1   | 1   | 1   | 2   |
| Wildfire                | 1   | 1   | 1   | 2   |
| Flooding                | N/A | N/A | N/A | N/A |
| Drought                 | N/A | N/A | N/A | N/A |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1   | 1   | 1   | 2   |

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 99.1                            |
| AQ-PM               | 60.9                            |
| AQ-DPM              | 67.4                            |
| Drinking Water      | 96.3                            |
| Lead Risk Housing   | 8.87                            |
| Pesticides          | 0.00                            |
| Toxic Releases      | 58.6                            |
| Traffic             | 72.8                            |

|                                 |      |
|---------------------------------|------|
| Effect Indicators               | —    |
| CleanUp Sites                   | 94.1 |
| Groundwater                     | 68.6 |
| Haz Waste Facilities/Generators | 63.6 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 75.7 |
| Sensitive Population            | —    |
| Asthma                          | 56.5 |
| Cardio-vascular                 | 74.7 |
| Low Birth Weights               | 44.5 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 61.1 |
| Housing                         | 0.94 |
| Linguistic                      | 36.0 |
| Poverty                         | 19.4 |
| Unemployment                    | 83.2 |

7.2. Healthy Places Index Scores

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

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 84.02412421                     |
| Employed               | 1.591171564                     |
| Median HI              | 79.9563711                      |
| Education              | —                               |
| Bachelor's or higher   | 28.85923264                     |
| High school enrollment | 17.31040678                     |

|                                              |             |
|----------------------------------------------|-------------|
| Preschool enrollment                         | 36.78942641 |
| Transportation                               | —           |
| Auto Access                                  | 72.44963429 |
| Active commuting                             | 7.917361735 |
| Social                                       | —           |
| 2-parent households                          | 44.74528423 |
| Voting                                       | 49.54446298 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 75.52932119 |
| Park access                                  | 7.04478378  |
| Retail density                               | 9.457205184 |
| Supermarket access                           | 35.77569614 |
| Tree canopy                                  | 15.46259464 |
| Housing                                      | —           |
| Homeownership                                | 91.76183755 |
| Housing habitability                         | 92.04414218 |
| Low-inc homeowner severe housing cost burden | 90.09367381 |
| Low-inc renter severe housing cost burden    | 81.05992557 |
| Uncrowded housing                            | 69.47260362 |
| Health Outcomes                              | —           |
| Insured adults                               | 52.11086873 |
| Arthritis                                    | 41.4        |
| Asthma ER Admissions                         | 28.5        |
| High Blood Pressure                          | 35.9        |
| Cancer (excluding skin)                      | 49.7        |
| Asthma                                       | 32.2        |
| Coronary Heart Disease                       | 57.7        |

|                                       |      |
|---------------------------------------|------|
| Chronic Obstructive Pulmonary Disease | 56.7 |
| Diagnosed Diabetes                    | 36.9 |
| Life Expectancy at Birth              | 29.0 |
| Cognitively Disabled                  | 60.3 |
| Physically Disabled                   | 57.4 |
| Heart Attack ER Admissions            | 27.5 |
| Mental Health Not Good                | 47.3 |
| Chronic Kidney Disease                | 45.1 |
| Obesity                               | 33.5 |
| Pedestrian Injuries                   | 91.8 |
| Physical Health Not Good              | 49.9 |
| Stroke                                | 39.4 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 26.9 |
| Current Smoker                        | 51.2 |
| No Leisure Time for Physical Activity | 54.9 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 45.4 |
| SLR Inundation Area                   | 0.0  |
| Children                              | 40.5 |
| Elderly                               | 74.7 |
| English Speaking                      | 78.9 |
| Foreign-born                          | 23.9 |
| Outdoor Workers                       | 16.6 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 79.3 |
| Traffic Density                       | 68.0 |

|                        |      |
|------------------------|------|
| Traffic Access         | 23.0 |
| Other Indices          | —    |
| Hardship               | 39.4 |
| Other Decision Support | —    |
| 2016 Voting            | 59.4 |

7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 70.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 36.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen   | Justification                                                                    |
|----------|----------------------------------------------------------------------------------|
| Land Use | Based on client provided data in the TIA.<br>Total Project site is 159.50 acres. |



|                                      |                                                                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction: Construction Phases    | Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis. Schedule adjusted to account for 2040 OY.                      |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases.<br>Standard 8 hours 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 PROPOSED SUBAREA A EMISSIONS MODEL OUTPUTS**

# 15585 - Glen Helen Specific Plan Amendment (Subarea A Operations) Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                             |
|-----------------------------|-------------------------------------------------------------------|
| Project Name                | 15585 - Glen Helen Specific Plan Amendment (Subarea A Operations) |
| Operational Year            | 2040                                                              |
| Lead Agency                 | —                                                                 |
| Land Use Scale              | Plan/community                                                    |
| Analysis Level for Defaults | County                                                            |
| Windspeed (m/s)             | 2.80                                                              |
| Precipitation (days)        | 6.80                                                              |
| Location                    | 34.22460863986629, -117.42511567777734                            |
| County                      | San Bernardino-South Coast                                        |
| City                        | Unincorporated                                                    |
| Air District                | South Coast AQMD                                                  |
| Air Basin                   | South Coast                                                       |
| TAZ                         | 5109                                                              |
| EDFZ                        | 10                                                                |
| Electric Utility            | Southern California Edison                                        |
| Gas Utility                 | Southern California Gas                                           |
| App Version                 | 2022.1.1.22                                                       |

## 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           |
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-----------------------|
| Parking Lot      | 79.0 | Acre | 79.0        | 0.00                  | 0.00                   | —                              | —          | Truck Trailer Parking |

|                      |      |                   |      |      |      |   |   |   |
|----------------------|------|-------------------|------|------|------|---|---|---|
| User Defined Parking | 79.0 | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | — |
|----------------------|------|-------------------|------|------|------|---|---|---|

### 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.              | 6.57 | 5.02 | 39.2 | 86.3 | 0.53 | 0.58  | 40.4  | 40.9  | 0.55   | 10.5   | 11.0   | 0.00 | 58,798 | 58,798 | 2.18 | 5.99 | 46.7 | 60,684 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 6.37 | 4.83 | 41.4 | 73.5 | 0.52 | 0.58  | 40.4  | 40.9  | 0.55   | 10.5   | 11.0   | 0.00 | 57,429 | 57,429 | 2.18 | 6.02 | 1.21 | 59,279 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.68 | 3.69 | 30.2 | 55.2 | 0.38 | 0.42  | 29.4  | 29.8  | 0.40   | 7.62   | 8.02   | 0.00 | 42,715 | 42,715 | 1.67 | 4.41 | 14.8 | 44,086 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.85 | 0.67 | 5.51 | 10.1 | 0.07 | 0.08  | 5.36  | 5.44  | 0.07   | 1.39   | 1.46   | 0.00 | 7,072  | 7,072  | 0.28 | 0.73 | 2.44 | 7,299  |

### 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              | 6.57 | 4.49 | 39.2 | 86.3 | 0.53 | 0.58 | 40.4 | 40.9 | 0.55 | 10.5 | 11.0 | —    | 56,644 | 56,644 | 1.91 | 5.96 | 46.7 | 58,514 |
| Area                | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 2,154  | 2,154  | 0.27 | 0.03 | —    | 2,171  |
| Water               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Waste               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Total               | 6.57 | 5.02 | 39.2 | 86.3 | 0.53 | 0.58 | 40.4 | 40.9 | 0.55 | 10.5 | 11.0 | 0.00 | 58,798 | 58,798 | 2.18 | 5.99 | 46.7 | 60,684 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —      | —      | —    | —    | —    | —      |
| Mobile              | 6.37 | 4.30 | 41.4 | 73.5 | 0.52 | 0.58 | 40.4 | 40.9 | 0.55 | 10.5 | 11.0 | —    | 55,275 | 55,275 | 1.90 | 5.99 | 1.21 | 57,108 |
| Area                | —    | 0.53 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —      | —      | —    | —    | —    | —      |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 2,154  | 2,154  | 0.27 | 0.03 | —    | 2,171  |
| Water               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Waste               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Total               | 6.37 | 4.83 | 41.4 | 73.5 | 0.52 | 0.58 | 40.4 | 40.9 | 0.55 | 10.5 | 11.0 | 0.00 | 57,429 | 57,429 | 2.18 | 6.02 | 1.21 | 59,279 |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —      | —      | —    | —    | —    | —      |
| Mobile              | 4.68 | 3.16 | 30.2 | 55.2 | 0.38 | 0.42 | 29.4 | 29.8 | 0.40 | 7.62 | 8.02 | —    | 40,561 | 40,561 | 1.39 | 4.38 | 14.8 | 41,916 |
| Area                | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 2,154  | 2,154  | 0.27 | 0.03 | —    | 2,171  |
| Water               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Waste               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |
| Total               | 4.68 | 3.69 | 30.2 | 55.2 | 0.38 | 0.42 | 29.4 | 29.8 | 0.40 | 7.62 | 8.02 | 0.00 | 42,715 | 42,715 | 1.67 | 4.41 | 14.8 | 44,086 |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —      | —      | —    | —    | —    | —      |
| Mobile              | 0.85 | 0.58 | 5.51 | 10.1 | 0.07 | 0.08 | 5.36 | 5.44 | 0.07 | 1.39 | 1.46 | —    | 6,715  | 6,715  | 0.23 | 0.73 | 2.44 | 6,940  |
| Area                | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 0.00   | 0.00   | 0.00 | 0.00 | —    | 0.00   |

|        |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |      |      |       |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 357   | 357   | 0.05 | 0.01 | —    | 359   |
| Water  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Waste  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Total  | 0.85 | 0.67 | 5.51 | 10.1 | 0.07 | 0.08 | 5.36 | 5.44 | 0.07 | 1.39 | 1.46 | 0.00 | 7,072 | 7,072 | 0.28 | 0.73 | 2.44 | 7,299 |

## 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)  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Parking Lot          | 3.52 | 3.10 | 2.10 | 61.6 | 0.18 | 0.04  | 20.8  | 20.8  | 0.04   | 5.24   | 5.28   | —    | 17,882 | 17,882 | 0.34 | 0.29 | 7.43 | 17,983 |
| User Defined Parking | 3.06 | 1.39 | 37.1 | 24.8 | 0.35 | 0.54  | 19.6  | 20.1  | 0.51   | 5.22   | 5.73   | —    | 38,762 | 38,762 | 1.56 | 5.67 | 39.3 | 40,531 |
| Total                | 6.57 | 4.49 | 39.2 | 86.3 | 0.53 | 0.58  | 40.4  | 40.9  | 0.55   | 10.5   | 11.0   | —    | 56,644 | 56,644 | 1.91 | 5.96 | 46.7 | 58,514 |
| Daily, Winter (Max)  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Parking Lot          | 3.41 | 3.00 | 2.34 | 48.4 | 0.16 | 0.04  | 20.8  | 20.8  | 0.04   | 5.24   | 5.28   | —    | 16,473 | 16,473 | 0.34 | 0.31 | 0.19 | 16,574 |
| User Defined Parking | 2.96 | 1.30 | 39.0 | 25.1 | 0.35 | 0.54  | 19.6  | 20.1  | 0.52   | 5.22   | 5.73   | —    | 38,802 | 38,802 | 1.56 | 5.68 | 1.02 | 40,534 |
| Total                | 6.37 | 4.30 | 41.4 | 73.5 | 0.52 | 0.58  | 40.4  | 40.9  | 0.55   | 10.5   | 11.0   | —    | 55,275 | 55,275 | 1.90 | 5.99 | 1.21 | 57,108 |
| Annual               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                      |      |      |      |      |      |      |      |      |         |      |      |   |       |       |      |      |      |       |
|----------------------|------|------|------|------|------|------|------|------|---------|------|------|---|-------|-------|------|------|------|-------|
| Parking Lot          | 0.45 | 0.40 | 0.32 | 6.74 | 0.02 | 0.01 | 2.76 | 2.76 | < 0.005 | 0.70 | 0.70 | — | 2,021 | 2,021 | 0.04 | 0.04 | 0.39 | 2,033 |
| User Defined Parking | 0.40 | 0.18 | 5.19 | 3.33 | 0.05 | 0.07 | 2.61 | 2.68 | 0.07    | 0.69 | 0.76 | — | 4,695 | 4,695 | 0.19 | 0.69 | 2.05 | 4,906 |
| Total                | 0.85 | 0.58 | 5.51 | 10.1 | 0.07 | 0.08 | 5.36 | 5.44 | 0.07    | 1.39 | 1.46 | — | 6,715 | 6,715 | 0.23 | 0.73 | 2.44 | 6,940 |

## 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)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| Daily, Winter (Max)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| Annual               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |   |      |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---|------|
| Parking Lot          | — | — | — | — | — | — | — | — | — | — | — | — | 357  | 357  | 0.05 | 0.01 | — | 359  |
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | — | 357  | 357  | 0.05 | 0.01 | — | 359  |

#### 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)  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| 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 Parking | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| 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 Parking | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| 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 Parking | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

### 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      | —    | 0.27 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Architectural Coatings | —    | 0.26 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Landscape Equipment    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.53 | 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)    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Consumer Products      | —    | 0.27 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Architectural Coatings | —    | 0.26 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Total                  | —    | 0.53 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |

|                        |      |      |      |      |      |      |   |      |      |   |      |   |      |      |      |      |   |      |
|------------------------|------|------|------|------|------|------|---|------|------|---|------|---|------|------|------|------|---|------|
| Annual                 | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Consumer Products      | —    | 0.05 | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Architectural Coatings | —    | 0.05 | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Landscape Equipment    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

## 4.4. 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)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |



|                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual               | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Parking Lot          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

## 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)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual               | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Parking Lot          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

## 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)

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

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

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

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

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

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

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

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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  |
|----------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Parking Lot          | 978           | 82.7           | 33.1         | 261,023    | 29,768      | 2,518        | 1,007      | 7,944,721 |
| User Defined Parking | 2,327         | 197            | 78.8         | 621,061    | 23,270      | 1,969        | 788        | 6,210,606 |

## 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                                     | 0.00                                         | 0.00                                         | 206,474                     |

### 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) |
|----------------------|----------------------|-----|--------|--------|-----------------------|
| Parking Lot          | 3,014,526            | 261 | 0.0330 | 0.0040 | 0.00                  |
| User Defined Parking | 0.00                 | 261 | 0.0330 | 0.0040 | 0.00                  |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use             | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|----------------------|-------------------------|--------------------------|
| Parking Lot          | 0.00                    | 0.00                     |
| User Defined Parking | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use             | Waste (ton/year) | Cogeneration (kWh/year) |
|----------------------|------------------|-------------------------|
| Parking Lot          | 0.00             | —                       |
| User Defined Parking | 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 | 27.9                        | annual days of extreme heat                |
| Extreme Precipitation        | 12.0                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 21.2                        | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Flooding                | N/A | N/A | N/A | N/A |
| Drought                 | N/A | N/A | N/A | N/A |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0   | 0   | 0   | N/A |

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

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

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

### 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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

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

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

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

| Indicator                       | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators             | —                               |
| AQ-Ozone                        | 97.6                            |
| AQ-PM                           | 57.0                            |
| AQ-DPM                          | 8.21                            |
| Drinking Water                  | 98.2                            |
| Lead Risk Housing               | 54.6                            |
| Pesticides                      | 20.2                            |
| Toxic Releases                  | 41.7                            |
| Traffic                         | 48.8                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 53.4                            |
| Groundwater                     | 0.00                            |
| Haz Waste Facilities/Generators | 1.80                            |
| Impaired Water Bodies           | 12.5                            |
| Solid Waste                     | 72.4                            |
| Sensitive Population            | —                               |
| Asthma                          | 22.4                            |
| Cardio-vascular                 | 32.8                            |
| Low Birth Weights               | 40.9                            |
| Socioeconomic Factor Indicators | —                               |
| Education                       | 37.3                            |
| Housing                         | 27.2                            |
| Linguistic                      | 13.3                            |
| Poverty                         | 48.4                            |

|              |      |
|--------------|------|
| Unemployment | 75.4 |
|--------------|------|

## 7.2. Healthy Places Index Scores

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

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 73.51469267                     |
| Employed               | 42.62799949                     |
| Median HI              | 38.72706275                     |
| Education              | —                               |
| Bachelor's or higher   | 49.69844732                     |
| High school enrollment | 100                             |
| Preschool enrollment   | 95.7141024                      |
| Transportation         | —                               |
| Auto Access            | 28.53843193                     |
| Active commuting       | 26.4724753                      |
| Social                 | —                               |
| 2-parent households    | 66.48274092                     |
| Voting                 | 65.66149108                     |
| Neighborhood           | —                               |
| Alcohol availability   | 97.0101373                      |
| Park access            | 48.23559605                     |
| Retail density         | 2.219940973                     |
| Supermarket access     | 8.392146798                     |
| Tree canopy            | 78.58334403                     |
| Housing                | —                               |
| Homeownership          | 86.88566662                     |

|                                              |             |
|----------------------------------------------|-------------|
| Housing habitability                         | 64.18580778 |
| Low-inc homeowner severe housing cost burden | 41.55010907 |
| Low-inc renter severe housing cost burden    | 37.44385987 |
| Uncrowded housing                            | 56.87155139 |
| Health Outcomes                              | —           |
| Insured adults                               | 44.20633902 |
| Arthritis                                    | 68.4        |
| Asthma ER Admissions                         | 85.5        |
| High Blood Pressure                          | 64.8        |
| Cancer (excluding skin)                      | 63.4        |
| Asthma                                       | 51.9        |
| Coronary Heart Disease                       | 81.5        |
| Chronic Obstructive Pulmonary Disease        | 71.2        |
| Diagnosed Diabetes                           | 68.9        |
| Life Expectancy at Birth                     | 58.3        |
| Cognitively Disabled                         | 18.3        |
| Physically Disabled                          | 10.0        |
| Heart Attack ER Admissions                   | 84.0        |
| Mental Health Not Good                       | 58.7        |
| Chronic Kidney Disease                       | 85.5        |
| Obesity                                      | 54.0        |
| Pedestrian Injuries                          | 97.7        |
| Physical Health Not Good                     | 67.2        |
| Stroke                                       | 80.6        |
| Health Risk Behaviors                        | —           |
| Binge Drinking                               | 20.5        |
| Current Smoker                               | 51.2        |

|                                       |      |
|---------------------------------------|------|
| No Leisure Time for Physical Activity | 70.0 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 63.7 |
| SLR Inundation Area                   | 0.0  |
| Children                              | 77.6 |
| Elderly                               | 27.3 |
| English Speaking                      | 52.1 |
| Foreign-born                          | 25.9 |
| Outdoor Workers                       | 13.0 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 97.3 |
| Traffic Density                       | 73.7 |
| Traffic Access                        | 23.0 |
| Other Indices                         | —    |
| Hardship                              | 37.6 |
| Other Decision Support                | —    |
| 2016 Voting                           | 82.0 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 39.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 59.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen                               | Justification                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                             | Based on client provided data in the TIA.<br>Total Project site is 159.50 acres.                                                                                                   |
| Construction: Construction Phases    | Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis.<br>Schedule adjusted to account for 2045 OY.                                  |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases.<br>Standard 8 hours 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 | SCAMQD Rule 1113                                                                                                                                                                   |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the TIA Table 4.2.                                                                                                           |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                   |
| 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. |



# 15585 - Glen Helen Specific Plan Amendment (Subarea B Operational LSTs) 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                | 15585 - Glen Helen Specific Plan Amendment (Subarea B Operational LSTs) |
| Operational Year            | 2040                                                                    |
| Lead Agency                 | —                                                                       |
| Land Use Scale              | Plan/community                                                          |
| Analysis Level for Defaults | County                                                                  |
| Windspeed (m/s)             | 2.80                                                                    |
| Precipitation (days)        | 6.80                                                                    |
| Location                    | 34.22034732518266, -117.40480592821811                                  |
| County                      | San Bernardino-South Coast                                              |
| City                        | Unincorporated                                                          |
| Air District                | South Coast AQMD                                                        |
| Air Basin                   | South Coast                                                             |
| TAZ                         | 5317                                                                    |
| EDFZ                        | 10                                                                      |
| Electric Utility            | Southern California Edison                                              |
| Gas Utility                 | Southern California Gas                                                 |
| App Version                 | 2022.1.1.22                                                             |

## 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         |
|------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|---------------------|
| Industrial Park  | 418  | 1000sqft | 19.2        | 418,176               | 0.00                   | —                              | —          | Corridor Industrial |

|                         |     |                   |      |      |      |   |   |   |
|-------------------------|-----|-------------------|------|------|------|---|---|---|
| User Defined Industrial | 418 | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | — |
|-------------------------|-----|-------------------|------|------|------|---|---|---|

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.              | 6.84 | 15.6 | 9.96 | 30.8 | 0.03    | 0.42  | 0.34  | 0.76  | 0.41   | 0.09   | 0.50   | 465  | 10,950 | 11,415 | 48.3 | 0.72 | 39.4 | 12,876 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 3.51 | 12.5 | 10.1 | 13.1 | 0.03    | 0.39  | 0.34  | 0.73  | 0.39   | 0.09   | 0.47   | 465  | 10,872 | 11,337 | 48.3 | 0.72 | 39.1 | 12,798 |
| Average Daily (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 4.52 | 13.4 | 7.15 | 22.4 | 0.03    | 0.28  | 0.30  | 0.58  | 0.28   | 0.08   | 0.35   | 465  | 10,359 | 10,824 | 48.2 | 0.70 | 39.2 | 12,276 |
| Annual (Max)        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.83 | 2.45 | 1.31 | 4.08 | < 0.005 | 0.05  | 0.05  | 0.11  | 0.05   | 0.01   | 0.06   | 76.9 | 1,715  | 1,792  | 7.98 | 0.12 | 6.49 | 2,032  |

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              | 2.18 | 1.95 | 3.97 | 7.47 | 0.01    | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.09 | —    | 1,010  | 1,010  | 0.25    | 0.17    | 0.30 | 1,067  |
| Area                | 3.24 | 12.5 | 0.15 | 18.2 | < 0.005 | 0.03 | —    | 0.03 | 0.02 | —    | 0.02 | —    | 74.8   | 74.8   | < 0.005 | < 0.005 | —    | 75.1   |
| Energy              | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | —    | 0.23 | 0.23 | —    | 0.23 | —    | 8,892  | 8,892  | 0.99    | 0.09    | —    | 8,942  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 185  | 470    | 656    | 19.1    | 0.46    | —    | 1,269  |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 279  | 0.00   | 279    | 27.9    | 0.00    | —    | 978    |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | 39.1 | 39.1   |
| Stationary          | 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               | 6.84 | 15.6 | 9.96 | 30.8 | 0.03    | 0.42 | 0.34 | 0.76 | 0.41 | 0.09 | 0.50 | 465  | 10,950 | 11,415 | 48.3    | 0.72    | 39.4 | 12,876 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 2.09 | 1.86 | 4.23 | 8.01 | 0.01    | 0.01 | 0.34 | 0.35 | 0.01 | 0.09 | 0.10 | —    | 1,006  | 1,006  | 0.26    | 0.17    | 0.01 | 1,064  |
| Area                | —    | 9.48 | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | —    | —      |
| Energy              | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | —    | 0.23 | 0.23 | —    | 0.23 | —    | 8,892  | 8,892  | 0.99    | 0.09    | —    | 8,942  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 185  | 470    | 656    | 19.1    | 0.46    | —    | 1,269  |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 279  | 0.00   | 279    | 27.9    | 0.00    | —    | 978    |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | 39.1 | 39.1   |
| Stationary          | 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               | 3.51 | 12.5 | 10.1 | 13.1 | 0.03    | 0.39 | 0.34 | 0.73 | 0.39 | 0.09 | 0.47 | 465  | 10,872 | 11,337 | 48.3    | 0.72    | 39.1 | 12,798 |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 1.81 | 1.62 | 3.59 | 6.98 | 0.01    | 0.01 | 0.30 | 0.30 | 0.01 | 0.08 | 0.08 | —    | 877    | 877    | 0.23    | 0.15    | 0.11 | 928    |
| Area                | 2.22 | 11.5 | 0.10 | 12.5 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | —    | 51.2   | 51.2   | < 0.005 | < 0.005 | —    | 51.4   |
| Energy              | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | —    | 0.23 | 0.23 | —    | 0.23 | —    | 8,892  | 8,892  | 0.99    | 0.09    | —    | 8,942  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 185  | 470    | 656    | 19.1    | 0.46    | —    | 1,269  |



|            |      |      |      |      |         |         |      |         |         |      |         |      |        |        |         |         |      |        |
|------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|--------|--------|---------|---------|------|--------|
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 279  | 0.00   | 279    | 27.9    | 0.00    | —    | 978    |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 39.1 | 39.1   |
| Stationary | 0.15 | 0.13 | 0.38 | 0.34 | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 69.0   | 69.0   | < 0.005 | < 0.005 | 0.00 | 69.2   |
| Total      | 4.52 | 13.4 | 7.15 | 22.4 | 0.03    | 0.28    | 0.30 | 0.58    | 0.28    | 0.08 | 0.35    | 465  | 10,359 | 10,824 | 48.2    | 0.70    | 39.2 | 12,276 |
| Annual     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile     | 0.33 | 0.29 | 0.66 | 1.27 | < 0.005 | < 0.005 | 0.05 | 0.06    | < 0.005 | 0.01 | 0.02    | —    | 145    | 145    | 0.04    | 0.03    | 0.02 | 154    |
| Area       | 0.40 | 2.10 | 0.02 | 2.27 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 8.48   | 8.48   | < 0.005 | < 0.005 | —    | 8.51   |
| Energy     | 0.06 | 0.03 | 0.56 | 0.47 | < 0.005 | 0.04    | —    | 0.04    | 0.04    | —    | 0.04    | —    | 1,472  | 1,472  | 0.16    | 0.01    | —    | 1,481  |
| Water      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 30.7 | 77.9   | 109    | 3.16    | 0.08    | —    | 210    |
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 46.3 | 0.00   | 46.3   | 4.62    | 0.00    | —    | 162    |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 6.47 | 6.47   |
| Stationary | 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      | 0.83 | 2.45 | 1.31 | 4.08 | < 0.005 | 0.05    | 0.05 | 0.11    | 0.05    | 0.01 | 0.06    | 76.9 | 1,715  | 1,792  | 7.98    | 0.12    | 6.49 | 2,032  |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

| Land Use            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R    | CO2e |
|---------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|------|------|------|------|------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —    | —    | —    | —    | —    |
| Industrial Park     | 1.77 | 1.73 | 0.36 | 3.94 | < 0.005 | < 0.005 | 0.22  | 0.22  | < 0.005 | 0.05   | 0.06   | —    | 315   | 315  | 0.08 | 0.05 | 0.08 | 333  |

|                         |      |      |      |      |         |         |      |      |         |      |      |   |       |       |      |      |         |       |
|-------------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|---------|-------|
| User Defined Industrial | 0.41 | 0.22 | 3.61 | 3.53 | 0.01    | 0.01    | 0.12 | 0.13 | 0.01    | 0.03 | 0.04 | — | 695   | 695   | 0.18 | 0.12 | 0.23    | 734   |
| Total                   | 2.18 | 1.95 | 3.97 | 7.47 | 0.01    | 0.01    | 0.34 | 0.35 | 0.01    | 0.09 | 0.09 | — | 1,010 | 1,010 | 0.25 | 0.17 | 0.30    | 1,067 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —       | —     |
| Industrial Park         | 1.71 | 1.67 | 0.39 | 4.39 | < 0.005 | < 0.005 | 0.22 | 0.22 | < 0.005 | 0.05 | 0.06 | — | 301   | 301   | 0.09 | 0.06 | < 0.005 | 320   |
| User Defined Industrial | 0.38 | 0.19 | 3.85 | 3.62 | 0.01    | 0.01    | 0.12 | 0.13 | 0.01    | 0.03 | 0.04 | — | 705   | 705   | 0.18 | 0.12 | 0.01    | 744   |
| Total                   | 2.09 | 1.86 | 4.23 | 8.01 | 0.01    | 0.01    | 0.34 | 0.35 | 0.01    | 0.09 | 0.10 | — | 1,006 | 1,006 | 0.26 | 0.17 | 0.01    | 1,064 |
| Annual                  | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —       | —     |
| Industrial Park         | 0.27 | 0.26 | 0.06 | 0.70 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01 | 0.01 | — | 44.0  | 44.0  | 0.01 | 0.01 | < 0.005 | 46.7  |
| User Defined Industrial | 0.06 | 0.03 | 0.59 | 0.57 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | 0.01 | 0.01 | — | 101   | 101   | 0.03 | 0.02 | 0.01    | 107   |
| Total                   | 0.33 | 0.29 | 0.66 | 1.27 | < 0.005 | < 0.005 | 0.05 | 0.06 | < 0.005 | 0.01 | 0.02 | — | 145   | 145   | 0.04 | 0.03 | 0.02    | 154   |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Industrial Park     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |       |       |      |      |   |       |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|------|---|-------|
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 863   | 863   | 0.11 | 0.01 | — | 870   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 863   | 863   | 0.11 | 0.01 | — | 870   |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

| Land Use                | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|-------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Daily, Summer (Max)     | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | 0.34 | 0.17 | 3.08 | 2.59 | 0.02 | 0.23  | —     | 0.23  | 0.23   | —      | 0.23   | —    | 3,677 | 3,677 | 0.33 | 0.01 | — | 3,688 |
| 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                   | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | — | 0.23 | 0.23 | — | 0.23 | — | 3,677 | 3,677 | 0.33 | 0.01    | — | 3,688 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —     | —     | —    | —       | — | —     |
| Industrial Park         | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | — | 0.23 | 0.23 | — | 0.23 | — | 3,677 | 3,677 | 0.33 | 0.01    | — | 3,688 |
| 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                   | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | — | 0.23 | 0.23 | — | 0.23 | — | 3,677 | 3,677 | 0.33 | 0.01    | — | 3,688 |
| Annual                  | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —     | —     | —    | —       | — | —     |
| Industrial Park         | 0.06 | 0.03 | 0.56 | 0.47 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 609   | 609   | 0.05 | < 0.005 | — | 611   |
| 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                   | 0.06 | 0.03 | 0.56 | 0.47 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 609   | 609   | 0.05 | < 0.005 | — | 611   |

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      | —   | 8.95 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Architectural Coatings | —   | 0.53 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Landscape              | 3.24 | 2.99 | 0.15 | 18.2 | < 0.005 | 0.03    | — | 0.03    | 0.02    | — | 0.02    | — | 74.8 | 74.8 | < 0.005 | < 0.005 | — | 75.1 |
| Total                  | 3.24 | 12.5 | 0.15 | 18.2 | < 0.005 | 0.03    | — | 0.03    | 0.02    | — | 0.02    | — | 74.8 | 74.8 | < 0.005 | < 0.005 | — | 75.1 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 8.95 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.53 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                  | —    | 9.48 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 1.63 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.10 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.40 | 0.37 | 0.02 | 2.27 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.48 | 8.48 | < 0.005 | < 0.005 | — | 8.51 |
| Total                  | 0.40 | 2.10 | 0.02 | 2.27 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.48 | 8.48 | < 0.005 | < 0.005 | — | 8.51 |

## 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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 30.7 | 77.9 | 109  | 3.16 | 0.08 | — | 210   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 30.7 | 77.9 | 109  | 3.16 | 0.08 | — | 210   |

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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 46.3 | 0.00 | 46.3 | 4.62 | 0.00 | — | 162  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 46.3 | 0.00 | 46.3 | 4.62 | 0.00 | — | 162  |

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.47 | 6.47 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.47 | 6.47 |

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)

| Equipme<br>nt<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) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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                     | 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  |
| Daily,<br>Winter<br>(Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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                     | 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  |
| Annual                    | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Fire<br>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                     | 0.03 | 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 |

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)

| Equipme<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)

| Vegetatio<br>n            | 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 |
|-----------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Industrial Park | 972           | 732            | 358          | 310,196    | 311         | 234          | 114        | 99,263   |

|                         |     |     |     |         |     |     |      |        |
|-------------------------|-----|-----|-----|---------|-----|-----|------|--------|
| User Defined Industrial | 438 | 330 | 161 | 139,748 | 140 | 106 | 51.5 | 44,719 |
|-------------------------|-----|-----|-----|---------|-----|-----|------|--------|

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                                     | 627,264                                      | 209,088                                      | —                           |

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

| Land Use                | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-------------------------|----------------------|-----|--------|--------|-----------------------|
| Industrial Park         | 7,297,960            | 261 | 0.0330 | 0.0040 | 11,474,757            |
| User Defined Industrial | 0.00                 | 261 | 0.0330 | 0.0040 | 0.00                  |

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

| Land Use                | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-------------------------|-------------------------|--------------------------|
| Industrial Park         | 96,703,200              | 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) |
|-------------------------|------------------|-------------------------|
| Industrial Park         | 519              | —                       |
| 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 |
|----------------|-----------|----------------|---------------|----------------|------------|-------------|
| 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 | 27.9                        | annual days of extreme heat                |
| Extreme Precipitation        | 12.0                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 21.2                        | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |



|                         |   |   |   |     |
|-------------------------|---|---|---|-----|
| Air Quality Degradation | 0 | 0 | 0 | N/A |
|-------------------------|---|---|---|-----|

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

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

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

6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |

|                                 |      |
|---------------------------------|------|
| AQ-Ozone                        | 99.1 |
| AQ-PM                           | 60.9 |
| AQ-DPM                          | 67.4 |
| Drinking Water                  | 96.3 |
| Lead Risk Housing               | 8.87 |
| Pesticides                      | 0.00 |
| Toxic Releases                  | 58.6 |
| Traffic                         | 72.8 |
| Effect Indicators               | —    |
| CleanUp Sites                   | 94.1 |
| Groundwater                     | 68.6 |
| Haz Waste Facilities/Generators | 63.6 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 75.7 |
| Sensitive Population            | —    |
| Asthma                          | 56.5 |
| Cardio-vascular                 | 74.7 |
| Low Birth Weights               | 44.5 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 61.1 |
| Housing                         | 0.94 |
| Linguistic                      | 36.0 |
| Poverty                         | 19.4 |
| Unemployment                    | 83.2 |

## 7.2. Healthy Places Index Scores

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

| Indicator                                    | Result for Project Census Tract |
|----------------------------------------------|---------------------------------|
| Economic                                     | —                               |
| Above Poverty                                | 84.02412421                     |
| Employed                                     | 1.591171564                     |
| Median HI                                    | 79.9563711                      |
| Education                                    | —                               |
| Bachelor's or higher                         | 28.85923264                     |
| High school enrollment                       | 17.31040678                     |
| Preschool enrollment                         | 36.78942641                     |
| Transportation                               | —                               |
| Auto Access                                  | 72.44963429                     |
| Active commuting                             | 7.917361735                     |
| Social                                       | —                               |
| 2-parent households                          | 44.74528423                     |
| Voting                                       | 49.54446298                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 75.52932119                     |
| Park access                                  | 7.04478378                      |
| Retail density                               | 9.457205184                     |
| Supermarket access                           | 35.77569614                     |
| Tree canopy                                  | 15.46259464                     |
| Housing                                      | —                               |
| Homeownership                                | 91.76183755                     |
| Housing habitability                         | 92.04414218                     |
| Low-inc homeowner severe housing cost burden | 90.09367381                     |
| Low-inc renter severe housing cost burden    | 81.05992557                     |
| Uncrowded housing                            | 69.47260362                     |

|                                       |             |
|---------------------------------------|-------------|
| Health Outcomes                       | —           |
| Insured adults                        | 52.11086873 |
| Arthritis                             | 41.4        |
| Asthma ER Admissions                  | 28.5        |
| High Blood Pressure                   | 35.9        |
| Cancer (excluding skin)               | 49.7        |
| Asthma                                | 32.2        |
| Coronary Heart Disease                | 57.7        |
| Chronic Obstructive Pulmonary Disease | 56.7        |
| Diagnosed Diabetes                    | 36.9        |
| Life Expectancy at Birth              | 29.0        |
| Cognitively Disabled                  | 60.3        |
| Physically Disabled                   | 57.4        |
| Heart Attack ER Admissions            | 27.5        |
| Mental Health Not Good                | 47.3        |
| Chronic Kidney Disease                | 45.1        |
| Obesity                               | 33.5        |
| Pedestrian Injuries                   | 91.8        |
| Physical Health Not Good              | 49.9        |
| Stroke                                | 39.4        |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 26.9        |
| Current Smoker                        | 51.2        |
| No Leisure Time for Physical Activity | 54.9        |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 45.4        |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 40.5 |
| Elderly                          | 74.7 |
| English Speaking                 | 78.9 |
| Foreign-born                     | 23.9 |
| Outdoor Workers                  | 16.6 |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 79.3 |
| Traffic Density                  | 68.0 |
| Traffic Access                   | 23.0 |
| Other Indices                    | —    |
| Hardship                         | 39.4 |
| Other Decision Support           | —    |
| 2016 Voting                      | 59.4 |

7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 70.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 36.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen                               | Justification                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                             | Based on client provided data in the TIA.<br>Total Project site for Subarea B is 19.20 acres.                                                                                      |
| Construction: Construction Phases    | Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis.<br>Schedule adjusted to account for 2045 OY.                                  |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases.<br>Standard 8 hours 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 | SCAMQD Rule 1113                                                                                                                                                                   |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the TIA Table 4.3.                                                                                                           |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                   |
| 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: Refrigerants             | Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.                                                                |

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### **APPENDIX 3.3:**

### **CALEEMOD PROPOSED SUBAREA B EMISSIONS MODEL OUTPUTS**



# 15585 - Glen Helen Specific Plan Amendment (Subarea B Proposed) 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                | 15585 - Glen Helen Specific Plan Amendment (Subarea B Proposed) |
| Operational Year            | 2040                                                            |
| Lead Agency                 | —                                                               |
| Land Use Scale              | Plan/community                                                  |
| Analysis Level for Defaults | County                                                          |
| Windspeed (m/s)             | 2.80                                                            |
| Precipitation (days)        | 6.80                                                            |
| Location                    | 34.22034732518266, -117.40480592821811                          |
| County                      | San Bernardino-South Coast                                      |
| City                        | Unincorporated                                                  |
| Air District                | South Coast AQMD                                                |
| Air Basin                   | South Coast                                                     |
| TAZ                         | 5317                                                            |
| EDFZ                        | 10                                                              |
| Electric Utility            | Southern California Edison                                      |
| Gas Utility                 | Southern California Gas                                         |
| App Version                 | 2022.1.1.22                                                     |

## 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         |
|------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|---------------------|
| Industrial Park  | 418  | 1000sqft | 19.2        | 418,176               | 0.00                   | —                              | —          | Corridor Industrial |

|                         |     |                   |      |      |      |   |   |   |
|-------------------------|-----|-------------------|------|------|------|---|---|---|
| User Defined Industrial | 418 | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | — |
|-------------------------|-----|-------------------|------|------|------|---|---|---|

### 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.              | 8.93 | 16.7 | 28.8 | 72.8 | 0.35 | 0.85  | 24.0  | 24.8  | 0.82   | 6.22   | 7.04   | 465  | 45,426 | 45,891 | 49.2 | 4.46 | 64.8 | 48,514 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 5.58 | 13.6 | 29.8 | 47.0 | 0.35 | 0.81  | 24.0  | 24.8  | 0.79   | 6.22   | 7.02   | 465  | 44,510 | 44,975 | 49.2 | 4.48 | 39.8 | 47,578 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 6.33 | 14.4 | 24.7 | 53.1 | 0.30 | 0.66  | 20.9  | 21.5  | 0.63   | 5.42   | 6.05   | 465  | 39,889 | 40,353 | 49.0 | 3.98 | 48.8 | 42,814 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 1.16 | 2.63 | 4.51 | 9.69 | 0.06 | 0.12  | 3.81  | 3.93  | 0.12   | 0.99   | 1.10   | 76.9 | 6,604  | 6,681  | 8.11 | 0.66 | 8.08 | 7,088  |

### 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              | 4.27 | 3.04 | 22.8 | 49.6 | 0.33    | 0.43 | 24.0 | 24.4 | 0.41 | 6.22 | 6.64 | —    | 35,486 | 35,486 | 1.15    | 3.91    | 25.7 | 36,706 |
| Area                | 3.24 | 12.5 | 0.15 | 18.2 | < 0.005 | 0.03 | —    | 0.03 | 0.02 | —    | 0.02 | —    | 74.8   | 74.8   | < 0.005 | < 0.005 | —    | 75.1   |
| Energy              | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | —    | 0.23 | 0.23 | —    | 0.23 | —    | 8,892  | 8,892  | 0.99    | 0.09    | —    | 8,942  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 185  | 470    | 656    | 19.1    | 0.46    | —    | 1,269  |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 279  | 0.00   | 279    | 27.9    | 0.00    | —    | 978    |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | 39.1 | 39.1   |
| Stationary          | 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               | 8.93 | 16.7 | 28.8 | 72.8 | 0.35    | 0.85 | 24.0 | 24.8 | 0.82 | 6.22 | 7.04 | 465  | 45,426 | 45,891 | 49.2    | 4.46    | 64.8 | 48,514 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 4.16 | 2.94 | 24.0 | 41.9 | 0.32    | 0.43 | 24.0 | 24.4 | 0.41 | 6.22 | 6.64 | —    | 34,644 | 34,644 | 1.15    | 3.93    | 0.67 | 35,844 |
| Area                | —    | 9.48 | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | —    | —      |
| Energy              | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | —    | 0.23 | 0.23 | —    | 0.23 | —    | 8,892  | 8,892  | 0.99    | 0.09    | —    | 8,942  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 185  | 470    | 656    | 19.1    | 0.46    | —    | 1,269  |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 279  | 0.00   | 279    | 27.9    | 0.00    | —    | 978    |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | 39.1 | 39.1   |
| Stationary          | 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               | 5.58 | 13.6 | 29.8 | 47.0 | 0.35    | 0.81 | 24.0 | 24.8 | 0.79 | 6.22 | 7.02 | 465  | 44,510 | 44,975 | 49.2    | 4.48    | 39.8 | 47,578 |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —      | —      | —       | —       | —    | —      |
| Mobile              | 3.62 | 2.56 | 21.2 | 37.7 | 0.28    | 0.38 | 20.9 | 21.3 | 0.36 | 5.42 | 5.78 | —    | 30,406 | 30,406 | 1.01    | 3.44    | 9.70 | 31,465 |
| Area                | 2.22 | 11.5 | 0.10 | 12.5 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | —    | 51.2   | 51.2   | < 0.005 | < 0.005 | —    | 51.4   |
| Energy              | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | —    | 0.23 | 0.23 | —    | 0.23 | —    | 8,892  | 8,892  | 0.99    | 0.09    | —    | 8,942  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 185  | 470    | 656    | 19.1    | 0.46    | —    | 1,269  |



|            |      |      |      |      |         |         |      |         |         |      |         |      |        |        |         |         |      |        |
|------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|--------|--------|---------|---------|------|--------|
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 279  | 0.00   | 279    | 27.9    | 0.00    | —    | 978    |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 39.1 | 39.1   |
| Stationary | 0.15 | 0.13 | 0.38 | 0.34 | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 69.0   | 69.0   | < 0.005 | < 0.005 | 0.00 | 69.2   |
| Total      | 6.33 | 14.4 | 24.7 | 53.1 | 0.30    | 0.66    | 20.9 | 21.5    | 0.63    | 5.42 | 6.05    | 465  | 39,889 | 40,353 | 49.0    | 3.98    | 48.8 | 42,814 |
| Annual     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | —    | —      |
| Mobile     | 0.66 | 0.47 | 3.86 | 6.88 | 0.05    | 0.07    | 3.81 | 3.88    | 0.07    | 0.99 | 1.06    | —    | 5,034  | 5,034  | 0.17    | 0.57    | 1.61 | 5,209  |
| Area       | 0.40 | 2.10 | 0.02 | 2.27 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 8.48   | 8.48   | < 0.005 | < 0.005 | —    | 8.51   |
| Energy     | 0.06 | 0.03 | 0.56 | 0.47 | < 0.005 | 0.04    | —    | 0.04    | 0.04    | —    | 0.04    | —    | 1,472  | 1,472  | 0.16    | 0.01    | —    | 1,481  |
| Water      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 30.7 | 77.9   | 109    | 3.16    | 0.08    | —    | 210    |
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 46.3 | 0.00   | 46.3   | 4.62    | 0.00    | —    | 162    |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —      | —      | —       | —       | 6.47 | 6.47   |
| Stationary | 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      | 1.16 | 2.63 | 4.51 | 9.69 | 0.06    | 0.12    | 3.81 | 3.93    | 0.12    | 0.99 | 1.10    | 76.9 | 6,604  | 6,681  | 8.11    | 0.66    | 8.08 | 7,088  |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

| Land Use            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Industrial Park     | 2.81 | 2.55 | 1.40 | 38.5 | 0.11 | 0.02  | 12.5  | 12.6  | 0.02   | 3.17   | 3.19   | —    | 10,859 | 10,859 | 0.23 | 0.19 | 4.49 | 10,927 |

|                         |      |      |      |      |      |         |      |      |         |      |      |   |        |        |      |      |      |        |
|-------------------------|------|------|------|------|------|---------|------|------|---------|------|------|---|--------|--------|------|------|------|--------|
| User Defined Industrial | 1.46 | 0.50 | 21.4 | 11.0 | 0.22 | 0.41    | 11.4 | 11.8 | 0.39    | 3.05 | 3.45 | — | 24,627 | 24,627 | 0.92 | 3.72 | 21.2 | 25,779 |
| Total                   | 4.27 | 3.04 | 22.8 | 49.6 | 0.33 | 0.43    | 24.0 | 24.4 | 0.41    | 6.22 | 6.64 | — | 35,486 | 35,486 | 1.15 | 3.91 | 25.7 | 36,706 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —    | —       | —    | —    | —       | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Industrial Park         | 2.72 | 2.46 | 1.56 | 30.8 | 0.10 | 0.02    | 12.5 | 12.6 | 0.02    | 3.17 | 3.19 | — | 10,008 | 10,008 | 0.24 | 0.21 | 0.12 | 10,076 |
| User Defined Industrial | 1.43 | 0.47 | 22.4 | 11.1 | 0.22 | 0.41    | 11.4 | 11.8 | 0.39    | 3.05 | 3.45 | — | 24,636 | 24,636 | 0.91 | 3.72 | 0.55 | 25,768 |
| Total                   | 4.16 | 2.94 | 24.0 | 41.9 | 0.32 | 0.43    | 24.0 | 24.4 | 0.41    | 6.22 | 6.64 | — | 34,644 | 34,644 | 1.15 | 3.93 | 0.67 | 35,844 |
| Annual                  | —    | —    | —    | —    | —    | —       | —    | —    | —       | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Industrial Park         | 0.43 | 0.39 | 0.26 | 5.12 | 0.02 | < 0.005 | 1.99 | 2.00 | < 0.005 | 0.50 | 0.51 | — | 1,468  | 1,468  | 0.03 | 0.03 | 0.28 | 1,478  |
| User Defined Industrial | 0.23 | 0.08 | 3.61 | 1.77 | 0.04 | 0.07    | 1.82 | 1.88 | 0.06    | 0.49 | 0.55 | — | 3,566  | 3,566  | 0.13 | 0.54 | 1.32 | 3,731  |
| Total                   | 0.66 | 0.47 | 3.86 | 6.88 | 0.05 | 0.07    | 3.81 | 3.88 | 0.07    | 0.99 | 1.06 | — | 5,034  | 5,034  | 0.17 | 0.57 | 1.61 | 5,209  |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Industrial Park     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |       |       |      |      |   |       |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|------|---|-------|
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 5,214 | 5,214 | 0.66 | 0.08 | — | 5,255 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 863   | 863   | 0.11 | 0.01 | — | 870   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 863   | 863   | 0.11 | 0.01 | — | 870   |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

| Land Use                | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|-------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Daily, Summer (Max)     | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | 0.34 | 0.17 | 3.08 | 2.59 | 0.02 | 0.23  | —     | 0.23  | 0.23   | —      | 0.23   | —    | 3,677 | 3,677 | 0.33 | 0.01 | — | 3,688 |
| 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                   | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | — | 0.23 | 0.23 | — | 0.23 | — | 3,677 | 3,677 | 0.33 | 0.01    | — | 3,688 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —     | —     | —    | —       | — | —     |
| Industrial Park         | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | — | 0.23 | 0.23 | — | 0.23 | — | 3,677 | 3,677 | 0.33 | 0.01    | — | 3,688 |
| 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                   | 0.34 | 0.17 | 3.08 | 2.59 | 0.02    | 0.23 | — | 0.23 | 0.23 | — | 0.23 | — | 3,677 | 3,677 | 0.33 | 0.01    | — | 3,688 |
| Annual                  | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —     | —     | —    | —       | — | —     |
| Industrial Park         | 0.06 | 0.03 | 0.56 | 0.47 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 609   | 609   | 0.05 | < 0.005 | — | 611   |
| 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                   | 0.06 | 0.03 | 0.56 | 0.47 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 609   | 609   | 0.05 | < 0.005 | — | 611   |

### 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      | —   | 8.95 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Architectural Coatings | —   | 0.53 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |      |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Landscape              | 3.24 | 2.99 | 0.15 | 18.2 | < 0.005 | 0.03    | — | 0.03    | 0.02    | — | 0.02    | — | 74.8 | 74.8 | < 0.005 | < 0.005 | — | 75.1 |
| Total                  | 3.24 | 12.5 | 0.15 | 18.2 | < 0.005 | 0.03    | — | 0.03    | 0.02    | — | 0.02    | — | 74.8 | 74.8 | < 0.005 | < 0.005 | — | 75.1 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 8.95 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.53 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                  | —    | 9.48 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 1.63 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.10 | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.40 | 0.37 | 0.02 | 2.27 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.48 | 8.48 | < 0.005 | < 0.005 | — | 8.51 |
| Total                  | 0.40 | 2.10 | 0.02 | 2.27 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.48 | 8.48 | < 0.005 | < 0.005 | — | 8.51 |

## 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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 185  | 470  | 656  | 19.1 | 0.46 | — | 1,269 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 30.7 | 77.9 | 109  | 3.16 | 0.08 | — | 210   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 30.7 | 77.9 | 109  | 3.16 | 0.08 | — | 210   |

#### 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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 279  | 0.00 | 279  | 27.9 | 0.00 | — | 978  |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 46.3 | 0.00 | 46.3 | 4.62 | 0.00 | — | 162  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 46.3 | 0.00 | 46.3 | 4.62 | 0.00 | — | 162  |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

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

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 39.1 | 39.1 |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.47 | 6.47 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.47 | 6.47 |

## 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) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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               | 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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               | 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  |
| Annual              | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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               | 0.03 | 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 |

## 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)

| Equipme<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)

| Vegetatio<br>n            | 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  |
|-----------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Industrial Park | 972           | 732            | 358          | 310,196    | 17,993      | 13,556       | 6,619      | 5,742,931 |

|                         |     |     |     |         |        |       |       |           |
|-------------------------|-----|-----|-----|---------|--------|-------|-------|-----------|
| User Defined Industrial | 438 | 330 | 161 | 139,748 | 13,104 | 9,875 | 4,819 | 4,182,644 |
|-------------------------|-----|-----|-----|---------|--------|-------|-------|-----------|

## 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                                     | 627,264                                      | 209,088                                      | —                           |

### 5.10.3. Landscape Equipment

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

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

| Land Use                | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-------------------------|----------------------|-----|--------|--------|-----------------------|
| Industrial Park         | 7,297,960            | 261 | 0.0330 | 0.0040 | 11,474,757            |
| User Defined Industrial | 0.00                 | 261 | 0.0330 | 0.0040 | 0.00                  |

## 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

| Land Use                | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-------------------------|-------------------------|--------------------------|
| Industrial Park         | 96,703,200              | 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) |
|-------------------------|------------------|-------------------------|
| Industrial Park         | 519              | —                       |
| 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 |
|----------------|-----------|----------------|---------------|----------------|------------|-------------|
| 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 | 27.9                        | annual days of extreme heat                |
| Extreme Precipitation        | 12.0                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 21.2                        | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |



|                         |   |   |   |     |
|-------------------------|---|---|---|-----|
| Air Quality Degradation | 0 | 0 | 0 | N/A |
|-------------------------|---|---|---|-----|

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

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

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

6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |

|                                 |      |
|---------------------------------|------|
| AQ-Ozone                        | 99.1 |
| AQ-PM                           | 60.9 |
| AQ-DPM                          | 67.4 |
| Drinking Water                  | 96.3 |
| Lead Risk Housing               | 8.87 |
| Pesticides                      | 0.00 |
| Toxic Releases                  | 58.6 |
| Traffic                         | 72.8 |
| Effect Indicators               | —    |
| CleanUp Sites                   | 94.1 |
| Groundwater                     | 68.6 |
| Haz Waste Facilities/Generators | 63.6 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 75.7 |
| Sensitive Population            | —    |
| Asthma                          | 56.5 |
| Cardio-vascular                 | 74.7 |
| Low Birth Weights               | 44.5 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 61.1 |
| Housing                         | 0.94 |
| Linguistic                      | 36.0 |
| Poverty                         | 19.4 |
| Unemployment                    | 83.2 |

## 7.2. Healthy Places Index Scores

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

| Indicator                                    | Result for Project Census Tract |
|----------------------------------------------|---------------------------------|
| Economic                                     | —                               |
| Above Poverty                                | 84.02412421                     |
| Employed                                     | 1.591171564                     |
| Median HI                                    | 79.9563711                      |
| Education                                    | —                               |
| Bachelor's or higher                         | 28.85923264                     |
| High school enrollment                       | 17.31040678                     |
| Preschool enrollment                         | 36.78942641                     |
| Transportation                               | —                               |
| Auto Access                                  | 72.44963429                     |
| Active commuting                             | 7.917361735                     |
| Social                                       | —                               |
| 2-parent households                          | 44.74528423                     |
| Voting                                       | 49.54446298                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 75.52932119                     |
| Park access                                  | 7.04478378                      |
| Retail density                               | 9.457205184                     |
| Supermarket access                           | 35.77569614                     |
| Tree canopy                                  | 15.46259464                     |
| Housing                                      | —                               |
| Homeownership                                | 91.76183755                     |
| Housing habitability                         | 92.04414218                     |
| Low-inc homeowner severe housing cost burden | 90.09367381                     |
| Low-inc renter severe housing cost burden    | 81.05992557                     |
| Uncrowded housing                            | 69.47260362                     |

|                                       |             |
|---------------------------------------|-------------|
| Health Outcomes                       | —           |
| Insured adults                        | 52.11086873 |
| Arthritis                             | 41.4        |
| Asthma ER Admissions                  | 28.5        |
| High Blood Pressure                   | 35.9        |
| Cancer (excluding skin)               | 49.7        |
| Asthma                                | 32.2        |
| Coronary Heart Disease                | 57.7        |
| Chronic Obstructive Pulmonary Disease | 56.7        |
| Diagnosed Diabetes                    | 36.9        |
| Life Expectancy at Birth              | 29.0        |
| Cognitively Disabled                  | 60.3        |
| Physically Disabled                   | 57.4        |
| Heart Attack ER Admissions            | 27.5        |
| Mental Health Not Good                | 47.3        |
| Chronic Kidney Disease                | 45.1        |
| Obesity                               | 33.5        |
| Pedestrian Injuries                   | 91.8        |
| Physical Health Not Good              | 49.9        |
| Stroke                                | 39.4        |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 26.9        |
| Current Smoker                        | 51.2        |
| No Leisure Time for Physical Activity | 54.9        |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 45.4        |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 40.5 |
| Elderly                          | 74.7 |
| English Speaking                 | 78.9 |
| Foreign-born                     | 23.9 |
| Outdoor Workers                  | 16.6 |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 79.3 |
| Traffic Density                  | 68.0 |
| Traffic Access                   | 23.0 |
| Other Indices                    | —    |
| Hardship                         | 39.4 |
| Other Decision Support           | —    |
| 2016 Voting                      | 59.4 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 70.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 36.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                               | Justification                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                             | Based on client provided data in the TIA.<br>Total Project site for Subarea B is 19.20 acres.                                                                                      |
| Construction: Construction Phases    | Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis.<br>Schedule adjusted to account for 2045 OY.                                  |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases.<br>Standard 8 hours 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 | SCAMQD Rule 1113                                                                                                                                                                   |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the TIA Table 4.3.                                                                                                           |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                   |
| 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: Refrigerants             | Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.                                                                |

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## **APPENDIX 3.4:**

### **CALEEMOD PROPOSED SUBAREA C EMISSIONS MODEL OUTPUTS**



# 15585 - Glen Helen Specific Plan Amendment (Subarea C Proposed) Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                           |
|-----------------------------|-----------------------------------------------------------------|
| Project Name                | 15585 - Glen Helen Specific Plan Amendment (Subarea C Proposed) |
| Operational Year            | 2040                                                            |
| Lead Agency                 | —                                                               |
| Land Use Scale              | Plan/community                                                  |
| Analysis Level for Defaults | County                                                          |
| Windspeed (m/s)             | 2.80                                                            |
| Precipitation (days)        | 6.80                                                            |
| Location                    | 34.201826619012024, -117.41783967431053                         |
| County                      | San Bernardino-South Coast                                      |
| City                        | Unincorporated                                                  |
| Air District                | South Coast AQMD                                                |
| Air Basin                   | South Coast                                                     |
| TAZ                         | 5317                                                            |
| EDFZ                        | 10                                                              |
| Electric Utility            | Southern California Edison                                      |
| Gas Utility                 | Southern California Gas                                         |
| App Version                 | 2022.1.1.22                                                     |

## 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         |
|------------------|-------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|---------------------|
| Industrial Park  | 1,335 | 1000sqft | 61.3        | 1,335,114             | 0.00                   | —                              | —          | Corridor Industrial |

|                         |       |                   |      |      |      |   |   |   |
|-------------------------|-------|-------------------|------|------|------|---|---|---|
| User Defined Industrial | 1,335 | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | — |
|-------------------------|-------|-------------------|------|------|------|---|---|---|

### 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.              | 26.1 | 51.0 | 85.9 | 226  | 1.12 | 2.38  | 76.0  | 78.4  | 2.29   | 19.7   | 22.0   | 1,484 | 143,427 | 144,911 | 157  | 14.2 | 207  | 153,273 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —     | —       | —       | —    | —    | —    | —       |
| Unmit.              | 15.4 | 41.1 | 89.1 | 144  | 1.09 | 2.28  | 76.0  | 78.3  | 2.21   | 19.7   | 22.0   | 1,484 | 140,529 | 142,013 | 157  | 14.3 | 127  | 150,310 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —     | —       | —       | —    | —    | —    | —       |
| Unmit.              | 19.9 | 45.6 | 77.9 | 168  | 0.96 | 2.05  | 66.2  | 68.3  | 1.97   | 17.2   | 19.2   | 1,484 | 126,789 | 128,272 | 156  | 12.7 | 156  | 136,121 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —     | —       | —       | —    | —    | —    | —       |
| Unmit.              | 3.62 | 8.33 | 14.2 | 30.6 | 0.18 | 0.37  | 12.1  | 12.5  | 0.36   | 3.14   | 3.50   | 246   | 20,991  | 21,237  | 25.9 | 2.10 | 25.8 | 22,536  |

### 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              | 13.6 | 9.69 | 72.8 | 157  | 1.05    | 1.38 | 76.0 | 77.4 | 1.32 | 19.7 | 21.1 | —     | 112,794 | 112,794 | 3.66 | 12.5    | 81.7 | 116,680 |
| Area                | 10.3 | 39.8 | 0.49 | 58.1 | < 0.005 | 0.10 | —    | 0.10 | 0.08 | —    | 0.08 | —     | 239     | 239     | 0.01 | < 0.005 | —    | 240     |
| Energy              | 1.08 | 0.54 | 9.84 | 8.27 | 0.06    | 0.75 | —    | 0.75 | 0.75 | —    | 0.75 | —     | 28,389  | 28,389  | 3.15 | 0.28    | —    | 28,550  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 592   | 1,502   | 2,093   | 60.9 | 1.46    | —    | 4,051   |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 892   | 0.00    | 892     | 89.2 | 0.00    | —    | 3,122   |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —       | —       | —    | —       | 125  | 125     |
| Stationary          | 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               | 26.1 | 51.0 | 85.9 | 226  | 1.12    | 2.38 | 76.0 | 78.4 | 2.29 | 19.7 | 22.0 | 1,484 | 143,427 | 144,911 | 157  | 14.2    | 207  | 153,273 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —       | —       | —    | —       | —    | —       |
| Mobile              | 13.2 | 9.35 | 76.5 | 133  | 1.02    | 1.38 | 76.0 | 77.4 | 1.32 | 19.7 | 21.1 | —     | 110,135 | 110,135 | 3.68 | 12.5    | 2.12 | 113,957 |
| Area                | —    | 30.3 | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —       | —       | —    | —       | —    | —       |
| Energy              | 1.08 | 0.54 | 9.84 | 8.27 | 0.06    | 0.75 | —    | 0.75 | 0.75 | —    | 0.75 | —     | 28,389  | 28,389  | 3.15 | 0.28    | —    | 28,550  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 592   | 1,502   | 2,093   | 60.9 | 1.46    | —    | 4,051   |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 892   | 0.00    | 892     | 89.2 | 0.00    | —    | 3,122   |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —       | —       | —    | —       | 125  | 125     |
| Stationary          | 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               | 15.4 | 41.1 | 89.1 | 144  | 1.09    | 2.28 | 76.0 | 78.3 | 2.21 | 19.7 | 22.0 | 1,484 | 140,529 | 142,013 | 157  | 14.3    | 127  | 150,310 |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —       | —       | —    | —       | —    | —       |
| Mobile              | 11.5 | 8.14 | 67.4 | 120  | 0.90    | 1.21 | 66.2 | 67.4 | 1.15 | 17.2 | 18.4 | —     | 96,665  | 96,665  | 3.22 | 10.9    | 30.9 | 100,040 |
| Area                | 7.08 | 36.8 | 0.33 | 39.8 | < 0.005 | 0.07 | —    | 0.07 | 0.05 | —    | 0.05 | —     | 164     | 164     | 0.01 | < 0.005 | —    | 164     |
| Energy              | 1.08 | 0.54 | 9.84 | 8.27 | 0.06    | 0.75 | —    | 0.75 | 0.75 | —    | 0.75 | —     | 28,389  | 28,389  | 3.15 | 0.28    | —    | 28,550  |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 592   | 1,502   | 2,093   | 60.9 | 1.46    | —    | 4,051   |



|            |      |      |      |      |         |         |      |         |         |      |         |       |         |         |         |         |      |         |
|------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|-------|---------|---------|---------|---------|------|---------|
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 892   | 0.00    | 892     | 89.2    | 0.00    | —    | 3,122   |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —     | —       | —       | —       | —       | 125  | 125     |
| Stationary | 0.15 | 0.13 | 0.38 | 0.34 | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00  | 69.0    | 69.0    | < 0.005 | < 0.005 | 0.00 | 69.2    |
| Total      | 19.9 | 45.6 | 77.9 | 168  | 0.96    | 2.05    | 66.2 | 68.3    | 1.97    | 17.2 | 19.2    | 1,484 | 126,789 | 128,272 | 156     | 12.7    | 156  | 136,121 |
| Annual     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —     | —       | —       | —       | —       | —    | —       |
| Mobile     | 2.11 | 1.49 | 12.3 | 21.8 | 0.16    | 0.22    | 12.1 | 12.3    | 0.21    | 3.14 | 3.35    | —     | 16,004  | 16,004  | 0.53    | 1.81    | 5.11 | 16,563  |
| Area       | 1.29 | 6.72 | 0.06 | 7.26 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —     | 27.1    | 27.1    | < 0.005 | < 0.005 | —    | 27.2    |
| Energy     | 0.20 | 0.10 | 1.80 | 1.51 | 0.01    | 0.14    | —    | 0.14    | 0.14    | —    | 0.14    | —     | 4,700   | 4,700   | 0.52    | 0.05    | —    | 4,727   |
| Water      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 98.0  | 249     | 347     | 10.1    | 0.24    | —    | 671     |
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 148   | 0.00    | 148     | 14.8    | 0.00    | —    | 517     |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —     | —       | —       | —       | —       | 20.7 | 20.7    |
| Stationary | 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      | 3.62 | 8.33 | 14.2 | 30.6 | 0.18    | 0.37    | 12.1 | 12.5    | 0.36    | 3.14 | 3.50    | 246   | 20,991  | 21,237  | 25.9    | 2.10    | 25.8 | 22,536  |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

| Land Use            | TOG  | ROG  | NOx  | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Industrial Park     | 8.95 | 8.11 | 4.45 | 122 | 0.34 | 0.08  | 39.7  | 39.7  | 0.07   | 10.0   | 10.1   | —    | 34,327 | 34,327 | 0.74 | 0.61 | 14.2 | 34,542 |

|                         |      |      |      |      |      |      |      |      |      |      |      |   |         |         |      |      |      |         |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|---|---------|---------|------|------|------|---------|
| User Defined Industrial | 4.65 | 1.58 | 68.3 | 35.2 | 0.71 | 1.30 | 36.4 | 37.7 | 1.25 | 9.73 | 11.0 | — | 78,468  | 78,468  | 2.92 | 11.8 | 67.5 | 82,138  |
| Total                   | 13.6 | 9.69 | 72.8 | 157  | 1.05 | 1.38 | 76.0 | 77.4 | 1.32 | 19.7 | 21.1 | — | 112,794 | 112,794 | 3.66 | 12.5 | 81.7 | 116,680 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —       | —       | —    | —    | —    | —       |
| Industrial Park         | 8.67 | 7.84 | 4.93 | 97.4 | 0.31 | 0.08 | 39.7 | 39.7 | 0.07 | 10.0 | 10.1 | — | 31,636  | 31,636  | 0.76 | 0.66 | 0.37 | 31,852  |
| User Defined Industrial | 4.56 | 1.50 | 71.5 | 35.4 | 0.71 | 1.30 | 36.4 | 37.7 | 1.25 | 9.73 | 11.0 | — | 78,499  | 78,499  | 2.91 | 11.9 | 1.75 | 82,106  |
| Total                   | 13.2 | 9.35 | 76.5 | 133  | 1.02 | 1.38 | 76.0 | 77.4 | 1.32 | 19.7 | 21.1 | — | 110,135 | 110,135 | 3.68 | 12.5 | 2.12 | 113,957 |
| Annual                  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —       | —       | —    | —    | —    | —       |
| Industrial Park         | 1.37 | 1.24 | 0.81 | 16.2 | 0.05 | 0.01 | 6.30 | 6.31 | 0.01 | 1.59 | 1.60 | — | 4,641   | 4,641   | 0.11 | 0.10 | 0.89 | 4,674   |
| User Defined Industrial | 0.74 | 0.25 | 11.5 | 5.63 | 0.11 | 0.21 | 5.78 | 5.99 | 0.20 | 1.55 | 1.75 | — | 11,363  | 11,363  | 0.42 | 1.72 | 4.22 | 11,889  |
| Total                   | 2.11 | 1.49 | 12.3 | 21.8 | 0.16 | 0.22 | 12.1 | 12.3 | 0.21 | 3.14 | 3.35 | — | 16,004  | 16,004  | 0.53 | 1.81 | 5.11 | 16,563  |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R | CO2e   |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Industrial Park     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |        |        |      |      |   |        |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|------|------|---|--------|
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00   | 0.00   | 0.00 | 0.00 | — | 0.00   |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | — | —      | —      | —    | —    | — | —      |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00   | 0.00   | 0.00 | 0.00 | — | 0.00   |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | —      | —      | —    | —    | — | —      |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 2,756  | 2,756  | 0.35 | 0.04 | — | 2,778  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00   | 0.00   | 0.00 | 0.00 | — | 0.00   |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 2,756  | 2,756  | 0.35 | 0.04 | — | 2,778  |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

| Land Use                | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R | CO2e   |
|-------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Daily, Summer (Max)     | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Industrial Park         | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75  | —     | 0.75  | 0.75   | —      | 0.75   | —    | 11,741 | 11,741 | 1.04 | 0.02 | — | 11,774 |
| 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                   | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75 | — | 0.75 | 0.75 | — | 0.75 | — | 11,741 | 11,741 | 1.04 | 0.02    | — | 11,774 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —      | —      | —    | —       | — | —      |
| Industrial Park         | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75 | — | 0.75 | 0.75 | — | 0.75 | — | 11,741 | 11,741 | 1.04 | 0.02    | — | 11,774 |
| 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                   | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75 | — | 0.75 | 0.75 | — | 0.75 | — | 11,741 | 11,741 | 1.04 | 0.02    | — | 11,774 |
| Annual                  | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —      | —      | —    | —       | — | —      |
| Industrial Park         | 0.20 | 0.10 | 1.80 | 1.51 | 0.01 | 0.14 | — | 0.14 | 0.14 | — | 0.14 | — | 1,944  | 1,944  | 0.17 | < 0.005 | — | 1,949  |
| 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                   | 0.20 | 0.10 | 1.80 | 1.51 | 0.01 | 0.14 | — | 0.14 | 0.14 | — | 0.14 | — | 1,944  | 1,944  | 0.17 | < 0.005 | — | 1,949  |

## 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      | —   | 28.6 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Architectural Coatings | —   | 1.70 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |      |      |      |         |      |   |      |      |   |      |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|------|---|------|------|---|------|---|------|------|---------|---------|---|------|
| Landscape              | 10.3 | 9.54 | 0.49 | 58.1 | < 0.005 | 0.10 | — | 0.10 | 0.08 | — | 0.08 | — | 239  | 239  | 0.01    | < 0.005 | — | 240  |
| Total                  | 10.3 | 39.8 | 0.49 | 58.1 | < 0.005 | 0.10 | — | 0.10 | 0.08 | — | 0.08 | — | 239  | 239  | 0.01    | < 0.005 | — | 240  |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 28.6 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 1.70 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Total                  | —    | 30.3 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 5.21 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.31 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 1.29 | 1.19 | 0.06 | 7.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 27.1 | 27.1 | < 0.005 | < 0.005 | — | 27.2 |
| Total                  | 1.29 | 6.72 | 0.06 | 7.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 27.1 | 27.1 | < 0.005 | < 0.005 | — | 27.2 |

## 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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 98.0 | 249   | 347   | 10.1 | 0.24 | — | 671   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 98.0 | 249   | 347   | 10.1 | 0.24 | — | 671   |

## 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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 148  | 0.00 | 148  | 14.8 | 0.00 | — | 517   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 148  | 0.00 | 148  | 14.8 | 0.00 | — | 517   |

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

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

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 20.7 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 20.7 |

## 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) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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               | 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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               | 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  |
| Annual              | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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               | 0.03 | 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 |

## 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)

| Equipme<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)

| Vegetatio<br>n            | 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,<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   |
|-----------------|---------------|----------------|--------------|------------|-------------|--------------|------------|------------|
| Industrial Park | 3,105         | 2,340          | 1,143        | 991,272    | 56,868      | 42,859       | 20,928     | 18,152,475 |

|                         |       |       |     |         |        |        |        |            |
|-------------------------|-------|-------|-----|---------|--------|--------|--------|------------|
| User Defined Industrial | 1,394 | 1,051 | 513 | 444,920 | 41,746 | 31,470 | 15,355 | 13,325,356 |
|-------------------------|-------|-------|-----|---------|--------|--------|--------|------------|

### 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                                     | 2,002,671                                    | 667,557                                      | —                           |

#### 5.10.3. Landscape Equipment

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

### 5.11. Operational Energy Consumption

#### 5.11.1. Unmitigated

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

| Land Use                | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-------------------------|----------------------|-----|--------|--------|-----------------------|
| Industrial Park         | 23,300,259           | 261 | 0.0330 | 0.0040 | 36,635,551            |
| User Defined Industrial | 0.00                 | 261 | 0.0330 | 0.0040 | 0.00                  |

### 5.12. Operational Water and Wastewater Consumption

## 5.12.1. Unmitigated

| Land Use                | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-------------------------|-------------------------|--------------------------|
| Industrial Park         | 308,745,113             | 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) |
|-------------------------|------------------|-------------------------|
| Industrial Park         | 1,656            | —                       |
| 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 |
|----------------|-----------|----------------|---------------|----------------|------------|-------------|
| 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 | 27.9                        | annual days of extreme heat                |
| Extreme Precipitation        | 12.0                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 21.2                        | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |



|                         |   |   |   |     |
|-------------------------|---|---|---|-----|
| Air Quality Degradation | 0 | 0 | 0 | N/A |
|-------------------------|---|---|---|-----|

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

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

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

6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |

|                                 |      |
|---------------------------------|------|
| AQ-Ozone                        | 99.1 |
| AQ-PM                           | 60.9 |
| AQ-DPM                          | 67.4 |
| Drinking Water                  | 96.3 |
| Lead Risk Housing               | 8.87 |
| Pesticides                      | 0.00 |
| Toxic Releases                  | 58.6 |
| Traffic                         | 72.8 |
| Effect Indicators               | —    |
| CleanUp Sites                   | 94.1 |
| Groundwater                     | 68.6 |
| Haz Waste Facilities/Generators | 63.6 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 75.7 |
| Sensitive Population            | —    |
| Asthma                          | 56.5 |
| Cardio-vascular                 | 74.7 |
| Low Birth Weights               | 44.5 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 61.1 |
| Housing                         | 0.94 |
| Linguistic                      | 36.0 |
| Poverty                         | 19.4 |
| Unemployment                    | 83.2 |

## 7.2. Healthy Places Index Scores

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

| Indicator                                    | Result for Project Census Tract |
|----------------------------------------------|---------------------------------|
| Economic                                     | —                               |
| Above Poverty                                | 84.02412421                     |
| Employed                                     | 1.591171564                     |
| Median HI                                    | 79.9563711                      |
| Education                                    | —                               |
| Bachelor's or higher                         | 28.85923264                     |
| High school enrollment                       | 17.31040678                     |
| Preschool enrollment                         | 36.78942641                     |
| Transportation                               | —                               |
| Auto Access                                  | 72.44963429                     |
| Active commuting                             | 7.917361735                     |
| Social                                       | —                               |
| 2-parent households                          | 44.74528423                     |
| Voting                                       | 49.54446298                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 75.52932119                     |
| Park access                                  | 7.04478378                      |
| Retail density                               | 9.457205184                     |
| Supermarket access                           | 35.77569614                     |
| Tree canopy                                  | 15.46259464                     |
| Housing                                      | —                               |
| Homeownership                                | 91.76183755                     |
| Housing habitability                         | 92.04414218                     |
| Low-inc homeowner severe housing cost burden | 90.09367381                     |
| Low-inc renter severe housing cost burden    | 81.05992557                     |
| Uncrowded housing                            | 69.47260362                     |

|                                       |             |
|---------------------------------------|-------------|
| Health Outcomes                       | —           |
| Insured adults                        | 52.11086873 |
| Arthritis                             | 41.4        |
| Asthma ER Admissions                  | 28.5        |
| High Blood Pressure                   | 35.9        |
| Cancer (excluding skin)               | 49.7        |
| Asthma                                | 32.2        |
| Coronary Heart Disease                | 57.7        |
| Chronic Obstructive Pulmonary Disease | 56.7        |
| Diagnosed Diabetes                    | 36.9        |
| Life Expectancy at Birth              | 29.0        |
| Cognitively Disabled                  | 60.3        |
| Physically Disabled                   | 57.4        |
| Heart Attack ER Admissions            | 27.5        |
| Mental Health Not Good                | 47.3        |
| Chronic Kidney Disease                | 45.1        |
| Obesity                               | 33.5        |
| Pedestrian Injuries                   | 91.8        |
| Physical Health Not Good              | 49.9        |
| Stroke                                | 39.4        |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 26.9        |
| Current Smoker                        | 51.2        |
| No Leisure Time for Physical Activity | 54.9        |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 45.4        |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 40.5 |
| Elderly                          | 74.7 |
| English Speaking                 | 78.9 |
| Foreign-born                     | 23.9 |
| Outdoor Workers                  | 16.6 |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 79.3 |
| Traffic Density                  | 68.0 |
| Traffic Access                   | 23.0 |
| Other Indices                    | —    |
| Hardship                         | 39.4 |
| Other Decision Support           | —    |
| 2016 Voting                      | 59.4 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 70.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 36.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                               | Justification                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                             | Based on client provided data in the TIA.<br>Total Project site for Subarea C is 61.3 acres.                                                                                       |
| Construction: Construction Phases    | Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis.<br>Schedule adjusted to account for 2045 OY.                                  |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases.<br>Standard 8 hours 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 | SCAMQD Rule 1113                                                                                                                                                                   |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the TIA Table 4.4.                                                                                                           |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                   |
| 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: Refrigerants             | Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.                                                                |

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## **APPENDIX 3.5:**

### **ON-SITE CARGO HANDLING EMISSIONS CALCULATIONS**



Operational Off-Road Equipment Emissions Calculation - Subarea B

|       |         |
|-------|---------|
| Year: | 2040    |
| Fuel: | Nat Gas |

| Region           | Year | Vehicle Category                        | Fuel    | BHP       | Emission Factor (lbs/hour) |      |      |      |      |       |       |
|------------------|------|-----------------------------------------|---------|-----------|----------------------------|------|------|------|------|-------|-------|
|                  |      |                                         |         |           | ROG                        | NOX  | CO   | SOX  | PM10 | PM2.5 | CO2   |
| South Coast AQMD | 2040 | Cargo Handling Equipment - Port Tractor | Nat Gas | Aggregate | 0.03                       | 0.09 | 4.11 | 0.00 | 0.01 | 0.01  | 71.54 |

|                |   |
|----------------|---|
| Equipment Qty: | 2 |
| Hours/day:     | 4 |

| Region           | Year | Vehicle Category                        | Fuel    | BHP       | Emissions (lbs/day) |      |       |      |      |       |        | MT/yr |
|------------------|------|-----------------------------------------|---------|-----------|---------------------|------|-------|------|------|-------|--------|-------|
|                  |      |                                         |         |           | ROG                 | NOX  | CO    | SOX  | PM10 | PM2.5 | CO2    | CO2   |
| South Coast AQMD | 2040 | Cargo Handling Equipment - Port Tractor | Nat Gas | Aggregate | 0.23                | 0.75 | 32.89 | 0.00 | 0.06 | 0.05  | 572.30 | 94.73 |

Model Output: OFFROAD2021 (v1.0.5) Emissions Inventory  
Region Type: Air District  
Region: South Coast AQMD  
Calendar Year: 2040  
Scenario: All Adopted Rules - Exhaust  
Vehicle Classification: OFFROAD2021 Equipment Types  
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

| Region           | Calendar Y | Vehicle Category                        | Model Yea | Horsepowi | Fuel    | HC_tpd     | ROG_tpd    | TOG_tpd     | CO_tpd      | NOx_tpd     | CO2_tpd  | PM10_tpd    | PM2.5_tpd   | SOx_tpd  | NH3_tpd    | Fuel Consu | Total_Activity_hpy | Total_Pop | Horsepower_Hours_hhpy |
|------------------|------------|-----------------------------------------|-----------|-----------|---------|------------|------------|-------------|-------------|-------------|----------|-------------|-------------|----------|------------|------------|--------------------|-----------|-----------------------|
| South Coast AQMD | 2040       | Cargo Handling Equipment - Port Tractor | Aggregate | Aggregate | Diesel  | 0.00000503 | 0.00000609 | 0.00000724  | 0.0000562   | 0.0000424   | 0.008181 | 0.000000348 | 0.00000032  | 7.76E-08 | 1.83E-10   | 266.11697  | 142.5825524        | 1.782282  | 0                     |
| South Coast AQMD | 2040       | Cargo Handling Equipment - Port Tractor | Aggregate | Aggregate | Nat Gas | 0.00028678 | 0.00034707 | 0.000413015 | 0.048631425 | 0.001109707 | 0.846211 | 0.000086943 | 0.000079876 | 0        | 1.8914E-08 | 27454.377  | 8635.155829        | 8.91141   | 0                     |

**Operational Off-Road Equipment Emissions Calculation - Subarea C**

Year: 2040  
 Fuel: Nat Gas

| Region           | Year | Vehicle Category                        | Fuel    | BHP       | Emission Factor (lbs/hour) |      |      |      |      |       |       |
|------------------|------|-----------------------------------------|---------|-----------|----------------------------|------|------|------|------|-------|-------|
|                  |      |                                         |         |           | ROG                        | NOX  | CO   | SOX  | PM10 | PM2.5 | CO2   |
| South Coast AQMD | 2040 | Cargo Handling Equipment - Port Tractor | Nat Gas | Aggregate | 0.03                       | 0.09 | 4.11 | 0.00 | 0.01 | 0.01  | 71.54 |

Equipment Qty: 5  
 Hours/day: 4

| Region           | Year | Vehicle Category                        | Fuel    | BHP       | Emissions (lbs/day) |      |       |      |      |       |          | MT/yr  |
|------------------|------|-----------------------------------------|---------|-----------|---------------------|------|-------|------|------|-------|----------|--------|
|                  |      |                                         |         |           | ROG                 | NOX  | CO    | SOX  | PM10 | PM2.5 | CO2      | CO2    |
| South Coast AQMD | 2040 | Cargo Handling Equipment - Port Tractor | Nat Gas | Aggregate | 0.59                | 1.88 | 82.22 | 0.00 | 0.15 | 0.14  | 1,430.74 | 236.83 |

Model Output: OFFROAD2021 (v1.0.5) Emissions Inventory  
Region Type: Air District  
Region: South Coast AQMD  
Calendar Year: 2040  
Scenario: All Adopted Rules - Exhaust  
Vehicle Classification: OFFROAD2021 Equipment Types  
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

| Region           | Calendar Yr | Vehicle Category                        | Model Yea | Horsepow  | Fuel    | HC_tpd     | ROG_tpd    | TOG_tpd     | CO_tpd      | NOx_tpd     | CO2_tpd  | PM10_tpd    | PM2.5_tpd   | SOx_tpd  | NH3_tpd    | Fuel Consur | Total_Activity_hpy | Total_Pop | Horsepowe |
|------------------|-------------|-----------------------------------------|-----------|-----------|---------|------------|------------|-------------|-------------|-------------|----------|-------------|-------------|----------|------------|-------------|--------------------|-----------|-----------|
| South Coast AQMD | 2040        | Cargo Handling Equipment - Port Tractor | Aggregate | Aggregate | Diesel  | 0.00000503 | 0.00000609 | 0.00000724  | 0.0000562   | 0.0000424   | 0.008181 | 0.000000348 | 0.00000032  | 7.76E-08 | 1.83E-10   | 266.117     | 142.5825524        | 1.782282  | 0         |
| South Coast AQMD | 2040        | Cargo Handling Equipment - Port Tractor | Aggregate | Aggregate | Nat Gas | 0.00028678 | 0.00034707 | 0.000413015 | 0.048631425 | 0.001109707 | 0.846211 | 0.000086943 | 0.000079876 | 0        | 1.8914E-08 | 27454.38    | 8635.155829        | 8.91141   | 0         |

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## **APPENDIX 3.6:**

### **CALEEMOD LOCALIZED EMISSIONS MODEL OUTPUTS**

# 15585 - Glen Helen Specific Plan Amendment (Subarea A Operational LSTs) Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                                   |
|-----------------------------|-------------------------------------------------------------------------|
| Project Name                | 15585 - Glen Helen Specific Plan Amendment (Subarea A Operational LSTs) |
| Operational Year            | 2040                                                                    |
| Lead Agency                 | —                                                                       |
| Land Use Scale              | Plan/community                                                          |
| Analysis Level for Defaults | County                                                                  |
| Windspeed (m/s)             | 2.80                                                                    |
| Precipitation (days)        | 6.80                                                                    |
| Location                    | 34.22460863986629, -117.42511567777734                                  |
| County                      | San Bernardino-South Coast                                              |
| City                        | Unincorporated                                                          |
| Air District                | South Coast AQMD                                                        |
| Air Basin                   | South Coast                                                             |
| TAZ                         | 5109                                                                    |
| EDFZ                        | 10                                                                      |
| Electric Utility            | Southern California Edison                                              |
| Gas Utility                 | Southern California Gas                                                 |
| App Version                 | 2022.1.1.22                                                             |

## 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           |
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-----------------------|
| Parking Lot      | 79.0 | Acre | 79.0        | 0.00                  | 0.00                   | —                              | —          | Truck Trailer Parking |

|                      |      |                   |      |      |      |   |   |   |
|----------------------|------|-------------------|------|------|------|---|---|---|
| User Defined Parking | 79.0 | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | — |
|----------------------|------|-------------------|------|------|------|---|---|---|

### 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.              | 3.00 | 2.77 | 15.3 | 17.9 | 0.05 | 0.05  | 2.26  | 2.32  | 0.05   | 0.60   | 0.65   | 0.00 | 7,606 | 7,606 | 1.01 | 0.85 | 3.74 | 7,888 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 2.86 | 2.64 | 16.2 | 18.4 | 0.05 | 0.06  | 2.26  | 2.32  | 0.05   | 0.60   | 0.65   | 0.00 | 7,611 | 7,611 | 1.01 | 0.86 | 0.10 | 7,892 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 2.11 | 2.09 | 11.5 | 13.4 | 0.03 | 0.04  | 1.65  | 1.69  | 0.04   | 0.43   | 0.47   | 0.00 | 6,132 | 6,132 | 0.82 | 0.63 | 1.18 | 6,342 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 0.39 | 0.38 | 2.11 | 2.44 | 0.01 | 0.01  | 0.30  | 0.31  | 0.01   | 0.08   | 0.09   | 0.00 | 1,015 | 1,015 | 0.14 | 0.10 | 0.20 | 1,050 |

### 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              | 3.00 | 2.24 | 15.3 | 17.9 | 0.05 | 0.05 | 2.26 | 2.32 | 0.05 | 0.60 | 0.65 | —    | 5,452 | 5,452 | 0.74 | 0.81 | 3.74 | 5,717 |
| Area                | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 2,154 | 2,154 | 0.27 | 0.03 | —    | 2,171 |
| Water               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Waste               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Total               | 3.00 | 2.77 | 15.3 | 17.9 | 0.05 | 0.05 | 2.26 | 2.32 | 0.05 | 0.60 | 0.65 | 0.00 | 7,606 | 7,606 | 1.01 | 0.85 | 3.74 | 7,888 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     |
| Mobile              | 2.86 | 2.10 | 16.2 | 18.4 | 0.05 | 0.06 | 2.26 | 2.32 | 0.05 | 0.60 | 0.65 | —    | 5,457 | 5,457 | 0.74 | 0.82 | 0.10 | 5,721 |
| Area                | —    | 0.53 | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 2,154 | 2,154 | 0.27 | 0.03 | —    | 2,171 |
| Water               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Waste               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Total               | 2.86 | 2.64 | 16.2 | 18.4 | 0.05 | 0.06 | 2.26 | 2.32 | 0.05 | 0.60 | 0.65 | 0.00 | 7,611 | 7,611 | 1.01 | 0.86 | 0.10 | 7,892 |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     |
| Mobile              | 2.11 | 1.55 | 11.5 | 13.4 | 0.03 | 0.04 | 1.65 | 1.69 | 0.04 | 0.43 | 0.47 | —    | 3,978 | 3,978 | 0.54 | 0.60 | 1.18 | 4,172 |
| Area                | 0.00 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 2,154 | 2,154 | 0.27 | 0.03 | —    | 2,171 |
| Water               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Waste               | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Total               | 2.11 | 2.09 | 11.5 | 13.4 | 0.03 | 0.04 | 1.65 | 1.69 | 0.04 | 0.43 | 0.47 | 0.00 | 6,132 | 6,132 | 0.82 | 0.63 | 1.18 | 6,342 |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —    | —    | —    | —     |
| Mobile              | 0.39 | 0.28 | 2.11 | 2.44 | 0.01 | 0.01 | 0.30 | 0.31 | 0.01 | 0.08 | 0.09 | —    | 659   | 659   | 0.09 | 0.10 | 0.20 | 691   |
| Area                | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |

|        |      |      |      |      |      |      |      |      |      |      |      |      |       |       |      |      |      |       |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| Energy | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00 | —    | 0.00 | —    | 357   | 357   | 0.05 | 0.01 | —    | 359   |
| Water  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Waste  | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | —    | 0.00  |
| Total  | 0.39 | 0.38 | 2.11 | 2.44 | 0.01 | 0.01 | 0.30 | 0.31 | 0.01 | 0.08 | 0.09 | 0.00 | 1,015 | 1,015 | 0.14 | 0.10 | 0.20 | 1,050 |

## 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)  | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —       | —     |
| Parking Lot          | 1.37 | 1.34 | 0.30 | 3.90 | 0.01    | < 0.005 | 0.49  | 0.49  | < 0.005 | 0.12   | 0.13   | —    | 516   | 516   | 0.06 | 0.05 | 0.18    | 532   |
| User Defined Parking | 1.63 | 0.90 | 15.0 | 14.0 | 0.04    | 0.05    | 1.77  | 1.83  | 0.05    | 0.47   | 0.52   | —    | 4,936 | 4,936 | 0.68 | 0.77 | 3.57    | 5,186 |
| Total                | 3.00 | 2.24 | 15.3 | 17.9 | 0.05    | 0.05    | 2.26  | 2.32  | 0.05    | 0.60   | 0.65   | —    | 5,452 | 5,452 | 0.74 | 0.81 | 3.74    | 5,717 |
| Daily, Winter (Max)  | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —       | —     |
| Parking Lot          | 1.32 | 1.29 | 0.32 | 4.02 | < 0.005 | < 0.005 | 0.49  | 0.49  | < 0.005 | 0.12   | 0.13   | —    | 484   | 484   | 0.07 | 0.05 | < 0.005 | 500   |
| User Defined Parking | 1.54 | 0.82 | 15.9 | 14.4 | 0.04    | 0.05    | 1.77  | 1.83  | 0.05    | 0.47   | 0.52   | —    | 4,973 | 4,973 | 0.67 | 0.78 | 0.09    | 5,221 |
| Total                | 2.86 | 2.10 | 16.2 | 18.4 | 0.05    | 0.06    | 2.26  | 2.32  | 0.05    | 0.60   | 0.65   | —    | 5,457 | 5,457 | 0.74 | 0.82 | 0.10    | 5,721 |
| Annual               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —       | —     |

|                      |      |      |      |      |         |         |      |      |         |      |      |   |      |      |      |      |      |      |
|----------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|------|------|------|------|------|------|
| Parking Lot          | 0.17 | 0.17 | 0.04 | 0.54 | < 0.005 | < 0.005 | 0.06 | 0.07 | < 0.005 | 0.02 | 0.02 | — | 59.2 | 59.2 | 0.01 | 0.01 | 0.01 | 61.2 |
| User Defined Parking | 0.21 | 0.11 | 2.06 | 1.90 | 0.01    | 0.01    | 0.24 | 0.24 | 0.01    | 0.06 | 0.07 | — | 599  | 599  | 0.08 | 0.09 | 0.19 | 630  |
| Total                | 0.39 | 0.28 | 2.11 | 2.44 | 0.01    | 0.01    | 0.30 | 0.31 | 0.01    | 0.08 | 0.09 | — | 659  | 659  | 0.09 | 0.10 | 0.20 | 691  |

## 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)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| Daily, Winter (Max)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 2,154 | 2,154 | 0.27 | 0.03 | — | 2,171 |
| Annual               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |



|                      |   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |   |      |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---|------|
| Parking Lot          | — | — | — | — | — | — | — | — | — | — | — | — | 357  | 357  | 0.05 | 0.01 | — | 359  |
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | — | 357  | 357  | 0.05 | 0.01 | — | 359  |

#### 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)  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| 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 Parking | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)  | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| 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 Parking | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| 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 Parking | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

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      | —    | 0.27 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Architectural Coatings | —    | 0.26 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Landscape Equipment    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.53 | 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)    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Consumer Products      | —    | 0.27 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Architectural Coatings | —    | 0.26 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Total                  | —    | 0.53 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |

|                        |      |      |      |      |      |      |   |      |      |   |      |   |      |      |      |      |   |      |
|------------------------|------|------|------|------|------|------|---|------|------|---|------|---|------|------|------|------|---|------|
| Annual                 | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Consumer Products      | —    | 0.05 | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Architectural Coatings | —    | 0.05 | —    | —    | —    | —    | — | —    | —    | — | —    | — | —    | —    | —    | —    | — | —    |
| Landscape Equipment    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.4. 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)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual               | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Parking Lot          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

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)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Parking Lot          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                      |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual               | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Parking Lot          | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| User Defined Parking | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

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)

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

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

| Equipme<br>nt<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)

| Vegetatio<br>n            | 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, 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            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |



|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 |
|----------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Parking Lot          | 738           | 62.4           | 25.0         | 196,968    | 701         | 59.3         | 23.7       | 187,119  |
| User Defined Parking | 2,219         | 188            | 75.1         | 592,238    | 2,108       | 178          | 71.4       | 562,626  |

### 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                                     | 0.00                                         | 0.00                                         | 206,474                     |

#### 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) |
|----------------------|----------------------|-----|--------|--------|-----------------------|
| Parking Lot          | 3,014,526            | 261 | 0.0330 | 0.0040 | 0.00                  |
| User Defined Parking | 0.00                 | 261 | 0.0330 | 0.0040 | 0.00                  |

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

| Land Use             | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|----------------------|-------------------------|--------------------------|
| Parking Lot          | 0.00                    | 0.00                     |
| User Defined Parking | 0.00                    | 0.00                     |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use             | Waste (ton/year) | Cogeneration (kWh/year) |
|----------------------|------------------|-------------------------|
| Parking Lot          | 0.00             | —                       |
| User Defined Parking | 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 | 27.9                        | annual days of extreme heat                |
| Extreme Precipitation        | 12.0                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 21.2                        | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Flooding                | N/A | N/A | N/A | N/A |
| Drought                 | N/A | N/A | N/A | N/A |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0   | 0   | 0   | N/A |

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

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

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

6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

| Indicator                       | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators             | —                               |
| AQ-Ozone                        | 97.6                            |
| AQ-PM                           | 57.0                            |
| AQ-DPM                          | 8.21                            |
| Drinking Water                  | 98.2                            |
| Lead Risk Housing               | 54.6                            |
| Pesticides                      | 20.2                            |
| Toxic Releases                  | 41.7                            |
| Traffic                         | 48.8                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 53.4                            |
| Groundwater                     | 0.00                            |
| Haz Waste Facilities/Generators | 1.80                            |
| Impaired Water Bodies           | 12.5                            |
| Solid Waste                     | 72.4                            |
| Sensitive Population            | —                               |
| Asthma                          | 22.4                            |
| Cardio-vascular                 | 32.8                            |
| Low Birth Weights               | 40.9                            |
| Socioeconomic Factor Indicators | —                               |
| Education                       | 37.3                            |
| Housing                         | 27.2                            |
| Linguistic                      | 13.3                            |
| Poverty                         | 48.4                            |

|              |      |
|--------------|------|
| Unemployment | 75.4 |
|--------------|------|

7.2. Healthy Places Index Scores

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

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 73.51469267                     |
| Employed               | 42.62799949                     |
| Median HI              | 38.72706275                     |
| Education              | —                               |
| Bachelor's or higher   | 49.69844732                     |
| High school enrollment | 100                             |
| Preschool enrollment   | 95.7141024                      |
| Transportation         | —                               |
| Auto Access            | 28.53843193                     |
| Active commuting       | 26.4724753                      |
| Social                 | —                               |
| 2-parent households    | 66.48274092                     |
| Voting                 | 65.66149108                     |
| Neighborhood           | —                               |
| Alcohol availability   | 97.0101373                      |
| Park access            | 48.23559605                     |
| Retail density         | 2.219940973                     |
| Supermarket access     | 8.392146798                     |
| Tree canopy            | 78.58334403                     |
| Housing                | —                               |
| Homeownership          | 86.88566662                     |



|                                              |             |
|----------------------------------------------|-------------|
| Housing habitability                         | 64.18580778 |
| Low-inc homeowner severe housing cost burden | 41.55010907 |
| Low-inc renter severe housing cost burden    | 37.44385987 |
| Uncrowded housing                            | 56.87155139 |
| Health Outcomes                              | —           |
| Insured adults                               | 44.20633902 |
| Arthritis                                    | 68.4        |
| Asthma ER Admissions                         | 85.5        |
| High Blood Pressure                          | 64.8        |
| Cancer (excluding skin)                      | 63.4        |
| Asthma                                       | 51.9        |
| Coronary Heart Disease                       | 81.5        |
| Chronic Obstructive Pulmonary Disease        | 71.2        |
| Diagnosed Diabetes                           | 68.9        |
| Life Expectancy at Birth                     | 58.3        |
| Cognitively Disabled                         | 18.3        |
| Physically Disabled                          | 10.0        |
| Heart Attack ER Admissions                   | 84.0        |
| Mental Health Not Good                       | 58.7        |
| Chronic Kidney Disease                       | 85.5        |
| Obesity                                      | 54.0        |
| Pedestrian Injuries                          | 97.7        |
| Physical Health Not Good                     | 67.2        |
| Stroke                                       | 80.6        |
| Health Risk Behaviors                        | —           |
| Binge Drinking                               | 20.5        |
| Current Smoker                               | 51.2        |

|                                       |      |
|---------------------------------------|------|
| No Leisure Time for Physical Activity | 70.0 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 63.7 |
| SLR Inundation Area                   | 0.0  |
| Children                              | 77.6 |
| Elderly                               | 27.3 |
| English Speaking                      | 52.1 |
| Foreign-born                          | 25.9 |
| Outdoor Workers                       | 13.0 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 97.3 |
| Traffic Density                       | 73.7 |
| Traffic Access                        | 23.0 |
| Other Indices                         | —    |
| Hardship                              | 37.6 |
| Other Decision Support                | —    |
| 2016 Voting                           | 82.0 |

7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 39.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 59.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen                               | Justification                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                             | Based on client provided data in the TIA.<br>Total Project site is 159.50 acres.                                                                                                   |
| Construction: Construction Phases    | Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis.<br>Schedule adjusted to account for 2045 OY.                                  |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases.<br>Standard 8 hours 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 | SCAMQD Rule 1113                                                                                                                                                                   |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the TIA Table 4.2.                                                                                                           |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                   |
| 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. |

# 15585 - Glen Helen Specific Plan Amendment (Subarea C Operational LSTs) Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                                                   |
|-----------------------------|-------------------------------------------------------------------------|
| Project Name                | 15585 - Glen Helen Specific Plan Amendment (Subarea C Operational LSTs) |
| Operational Year            | 2040                                                                    |
| Lead Agency                 | —                                                                       |
| Land Use Scale              | Plan/community                                                          |
| Analysis Level for Defaults | County                                                                  |
| Windspeed (m/s)             | 2.80                                                                    |
| Precipitation (days)        | 6.80                                                                    |
| Location                    | 34.201826619012024, -117.41783967431053                                 |
| County                      | San Bernardino-South Coast                                              |
| City                        | Unincorporated                                                          |
| Air District                | South Coast AQMD                                                        |
| Air Basin                   | South Coast                                                             |
| TAZ                         | 5317                                                                    |
| EDFZ                        | 10                                                                      |
| Electric Utility            | Southern California Edison                                              |
| Gas Utility                 | Southern California Gas                                                 |
| App Version                 | 2022.1.1.22                                                             |

## 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         |
|------------------|-------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|---------------------|
| Industrial Park  | 1,335 | 1000sqft | 61.3        | 1,335,114             | 0.00                   | —                              | —          | Corridor Industrial |

|                         |       |                   |      |      |      |   |   |   |
|-------------------------|-------|-------------------|------|------|------|---|---|---|
| User Defined Industrial | 1,335 | User Defined Unit | 0.00 | 0.00 | 0.00 | — | — | — |
|-------------------------|-------|-------------------|------|------|------|---|---|---|

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.              | 19.5 | 47.6 | 26.2 | 94.1 | 0.10 | 1.03  | 1.79  | 2.82  | 1.00   | 0.46   | 1.47   | 1,484 | 34,782 | 36,266 | 154  | 2.38 | 126  | 40,951 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —     | —      | —      | —    | —    | —    | —      |
| Unmit.              | 8.90 | 37.8 | 26.5 | 37.5 | 0.10 | 0.93  | 1.79  | 2.72  | 0.93   | 0.46   | 1.39   | 1,484 | 34,500 | 35,984 | 154  | 2.39 | 125  | 40,671 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —     | —      | —      | —    | —    | —    | —      |
| Unmit.              | 14.2 | 42.7 | 22.4 | 71.7 | 0.09 | 0.87  | 1.56  | 2.43  | 0.85   | 0.40   | 1.25   | 1,484 | 33,708 | 35,192 | 154  | 2.30 | 125  | 39,852 |
| Annual (Max)        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —     | —      | —      | —    | —    | —    | —      |
| Unmit.              | 2.59 | 7.79 | 4.09 | 13.1 | 0.02 | 0.16  | 0.28  | 0.44  | 0.16   | 0.07   | 0.23   | 246   | 5,581  | 5,826  | 25.5 | 0.38 | 20.8 | 6,598  |

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              | 7.01 | 6.27 | 13.1 | 25.3 | 0.04    | 0.04 | 1.79 | 1.83 | 0.03 | 0.46 | 0.50 | —     | 4,149  | 4,149  | 0.83 | 0.63    | 1.61 | 4,359  |
| Area                | 10.3 | 39.8 | 0.49 | 58.1 | < 0.005 | 0.10 | —    | 0.10 | 0.08 | —    | 0.08 | —     | 239    | 239    | 0.01 | < 0.005 | —    | 240    |
| Energy              | 1.08 | 0.54 | 9.84 | 8.27 | 0.06    | 0.75 | —    | 0.75 | 0.75 | —    | 0.75 | —     | 28,389 | 28,389 | 3.15 | 0.28    | —    | 28,550 |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 592   | 1,502  | 2,093  | 60.9 | 1.46    | —    | 4,051  |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 892   | 0.00   | 892    | 89.2 | 0.00    | —    | 3,122  |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —      | —      | —    | —       | 125  | 125    |
| Stationary          | 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               | 19.5 | 47.6 | 26.2 | 94.1 | 0.10    | 1.03 | 1.79 | 2.82 | 1.00 | 0.46 | 1.47 | 1,484 | 34,782 | 36,266 | 154  | 2.38    | 126  | 40,951 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —      | —      | —    | —       | —    | —      |
| Mobile              | 6.73 | 5.98 | 13.9 | 26.7 | 0.04    | 0.04 | 1.79 | 1.83 | 0.03 | 0.46 | 0.50 | —     | 4,106  | 4,106  | 0.86 | 0.64    | 0.04 | 4,318  |
| Area                | —    | 30.3 | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —      | —      | —    | —       | —    | —      |
| Energy              | 1.08 | 0.54 | 9.84 | 8.27 | 0.06    | 0.75 | —    | 0.75 | 0.75 | —    | 0.75 | —     | 28,389 | 28,389 | 3.15 | 0.28    | —    | 28,550 |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 592   | 1,502  | 2,093  | 60.9 | 1.46    | —    | 4,051  |
| Waste               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 892   | 0.00   | 892    | 89.2 | 0.00    | —    | 3,122  |
| Refrig.             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —      | —      | —    | —       | 125  | 125    |
| Stationary          | 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               | 8.90 | 37.8 | 26.5 | 37.5 | 0.10    | 0.93 | 1.79 | 2.72 | 0.93 | 0.46 | 1.39 | 1,484 | 34,500 | 35,984 | 154  | 2.39    | 125  | 40,671 |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —     | —      | —      | —    | —       | —    | —      |
| Mobile              | 5.85 | 5.19 | 11.9 | 23.3 | 0.03    | 0.03 | 1.56 | 1.59 | 0.03 | 0.40 | 0.43 | —     | 3,585  | 3,585  | 0.75 | 0.56    | 0.61 | 3,771  |
| Area                | 7.08 | 36.8 | 0.33 | 39.8 | < 0.005 | 0.07 | —    | 0.07 | 0.05 | —    | 0.05 | —     | 164    | 164    | 0.01 | < 0.005 | —    | 164    |
| Energy              | 1.08 | 0.54 | 9.84 | 8.27 | 0.06    | 0.75 | —    | 0.75 | 0.75 | —    | 0.75 | —     | 28,389 | 28,389 | 3.15 | 0.28    | —    | 28,550 |
| Water               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | 592   | 1,502  | 2,093  | 60.9 | 1.46    | —    | 4,051  |

|            |      |      |      |      |         |         |      |         |         |      |         |       |        |        |         |         |      |        |
|------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|-------|--------|--------|---------|---------|------|--------|
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 892   | 0.00   | 892    | 89.2    | 0.00    | —    | 3,122  |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —     | —      | —      | —       | —       | 125  | 125    |
| Stationary | 0.15 | 0.13 | 0.38 | 0.34 | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00  | 69.0   | 69.0   | < 0.005 | < 0.005 | 0.00 | 69.2   |
| Total      | 14.2 | 42.7 | 22.4 | 71.7 | 0.09    | 0.87    | 1.56 | 2.43    | 0.85    | 0.40 | 1.25    | 1,484 | 33,708 | 35,192 | 154     | 2.30    | 125  | 39,852 |
| Annual     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —     | —      | —      | —       | —       | —    | —      |
| Mobile     | 1.07 | 0.95 | 2.16 | 4.26 | 0.01    | 0.01    | 0.28 | 0.29    | 0.01    | 0.07 | 0.08    | —     | 594    | 594    | 0.12    | 0.09    | 0.10 | 624    |
| Area       | 1.29 | 6.72 | 0.06 | 7.26 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —     | 27.1   | 27.1   | < 0.005 | < 0.005 | —    | 27.2   |
| Energy     | 0.20 | 0.10 | 1.80 | 1.51 | 0.01    | 0.14    | —    | 0.14    | 0.14    | —    | 0.14    | —     | 4,700  | 4,700  | 0.52    | 0.05    | —    | 4,727  |
| Water      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 98.0  | 249    | 347    | 10.1    | 0.24    | —    | 671    |
| Waste      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | 148   | 0.00   | 148    | 14.8    | 0.00    | —    | 517    |
| Refrig.    | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | —     | —      | —      | —       | —       | 20.7 | 20.7   |
| Stationary | 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      | 2.59 | 7.79 | 4.09 | 13.1 | 0.02    | 0.16    | 0.28 | 0.44    | 0.16    | 0.07 | 0.23    | 246   | 5,581  | 5,826  | 25.5    | 0.38    | 20.8 | 6,598  |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

| Land Use            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Industrial Park     | 5.68 | 5.57 | 1.19 | 13.9 | 0.01 | 0.01  | 1.15  | 1.16  | 0.01   | 0.29   | 0.30   | —    | 1,395 | 1,395 | 0.25 | 0.18 | 0.41 | 1,456 |

|                         |      |      |      |      |         |         |      |      |         |      |      |   |       |       |      |      |      |       |
|-------------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|------|-------|
| User Defined Industrial | 1.33 | 0.70 | 11.9 | 11.4 | 0.02    | 0.03    | 0.64 | 0.67 | 0.03    | 0.17 | 0.20 | — | 2,753 | 2,753 | 0.58 | 0.45 | 1.19 | 2,903 |
| Total                   | 7.01 | 6.27 | 13.1 | 25.3 | 0.04    | 0.04    | 1.79 | 1.83 | 0.03    | 0.46 | 0.50 | — | 4,149 | 4,149 | 0.83 | 0.63 | 1.61 | 4,359 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Industrial Park         | 5.49 | 5.36 | 1.27 | 15.0 | 0.01    | 0.01    | 1.15 | 1.16 | 0.01    | 0.29 | 0.30 | — | 1,321 | 1,321 | 0.28 | 0.19 | 0.01 | 1,384 |
| User Defined Industrial | 1.24 | 0.62 | 12.7 | 11.7 | 0.02    | 0.03    | 0.64 | 0.67 | 0.03    | 0.17 | 0.20 | — | 2,785 | 2,785 | 0.58 | 0.45 | 0.03 | 2,934 |
| Total                   | 6.73 | 5.98 | 13.9 | 26.7 | 0.04    | 0.04    | 1.79 | 1.83 | 0.03    | 0.46 | 0.50 | — | 4,106 | 4,106 | 0.86 | 0.64 | 0.04 | 4,318 |
| Annual                  | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Industrial Park         | 0.86 | 0.84 | 0.21 | 2.41 | < 0.005 | < 0.005 | 0.18 | 0.18 | < 0.005 | 0.05 | 0.05 | — | 193   | 193   | 0.04 | 0.03 | 0.03 | 202   |
| User Defined Industrial | 0.21 | 0.11 | 1.96 | 1.85 | < 0.005 | < 0.005 | 0.10 | 0.11 | < 0.005 | 0.03 | 0.03 | — | 401   | 401   | 0.08 | 0.07 | 0.07 | 422   |
| Total                   | 1.07 | 0.95 | 2.16 | 4.26 | 0.01    | 0.01    | 0.28 | 0.29 | 0.01    | 0.07 | 0.08 | — | 594   | 594   | 0.12 | 0.09 | 0.10 | 624   |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

| Land Use            | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R | CO2e   |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Daily, Summer (Max) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Industrial Park     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |        |        |      |      |   |        |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|------|------|---|--------|
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00   | 0.00   | 0.00 | 0.00 | — | 0.00   |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | — | —      | —      | —    | —    | — | —      |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00   | 0.00   | 0.00 | 0.00 | — | 0.00   |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 16,648 | 16,648 | 2.11 | 0.26 | — | 16,777 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | —      | —      | —    | —    | — | —      |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | — | 2,756  | 2,756  | 0.35 | 0.04 | — | 2,778  |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | — | 0.00   | 0.00   | 0.00 | 0.00 | — | 0.00   |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 2,756  | 2,756  | 0.35 | 0.04 | — | 2,778  |

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

| Land Use                | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R | CO2e   |
|-------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Daily, Summer (Max)     | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Industrial Park         | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75  | —     | 0.75  | 0.75   | —      | 0.75   | —    | 11,741 | 11,741 | 1.04 | 0.02 | — | 11,774 |
| 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                         | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75 | — | 0.75 | 0.75 | — | 0.75 | — | 11,741 | 11,741 | 1.04 | 0.02    | — | 11,774 |
| Daily,<br>Winter<br>(Max)     | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —      | —      | —    | —       | — | —      |
| Industrial<br>Park            | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75 | — | 0.75 | 0.75 | — | 0.75 | — | 11,741 | 11,741 | 1.04 | 0.02    | — | 11,774 |
| 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                         | 1.08 | 0.54 | 9.84 | 8.27 | 0.06 | 0.75 | — | 0.75 | 0.75 | — | 0.75 | — | 11,741 | 11,741 | 1.04 | 0.02    | — | 11,774 |
| Annual                        | —    | —    | —    | —    | —    | —    | — | —    | —    | — | —    | — | —      | —      | —    | —       | — | —      |
| Industrial<br>Park            | 0.20 | 0.10 | 1.80 | 1.51 | 0.01 | 0.14 | — | 0.14 | 0.14 | — | 0.14 | — | 1,944  | 1,944  | 0.17 | < 0.005 | — | 1,949  |
| 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                         | 0.20 | 0.10 | 1.80 | 1.51 | 0.01 | 0.14 | — | 0.14 | 0.14 | — | 0.14 | — | 1,944  | 1,944  | 0.17 | < 0.005 | — | 1,949  |

## 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>Products      | —   | 28.6 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| Architect<br>ural<br>Coatings | —   | 1.70 | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                        |      |      |      |      |         |      |   |      |      |   |      |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|------|---|------|------|---|------|---|------|------|---------|---------|---|------|
| Landscape              | 10.3 | 9.54 | 0.49 | 58.1 | < 0.005 | 0.10 | — | 0.10 | 0.08 | — | 0.08 | — | 239  | 239  | 0.01    | < 0.005 | — | 240  |
| Total                  | 10.3 | 39.8 | 0.49 | 58.1 | < 0.005 | 0.10 | — | 0.10 | 0.08 | — | 0.08 | — | 239  | 239  | 0.01    | < 0.005 | — | 240  |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 28.6 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 1.70 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Total                  | —    | 30.3 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | —    | 5.21 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.31 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 1.29 | 1.19 | 0.06 | 7.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 27.1 | 27.1 | < 0.005 | < 0.005 | — | 27.2 |
| Total                  | 1.29 | 6.72 | 0.06 | 7.26 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 27.1 | 27.1 | < 0.005 | < 0.005 | — | 27.2 |

#### 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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 592  | 1,502 | 2,093 | 60.9 | 1.46 | — | 4,051 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —     | —     | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 98.0 | 249   | 347   | 10.1 | 0.24 | — | 671   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 98.0 | 249   | 347   | 10.1 | 0.24 | — | 671   |

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)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 892  | 0.00 | 892  | 89.2 | 0.00 | — | 3,122 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —     |
| Industrial Park         | — | — | — | — | — | — | — | — | — | — | — | 148  | 0.00 | 148  | 14.8 | 0.00 | — | 517   |
| User Defined Industrial | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 148  | 0.00 | 148  | 14.8 | 0.00 | — | 517   |

#### 4.6. Refrigerant Emissions by Land Use

##### 4.6.1. Unmitigated

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

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

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 125  | 125  |
| Annual              | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Industrial Park     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 20.7 |
| Total               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 20.7 |

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)

| Equipme<br>nt<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) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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                     | 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  |
| Daily,<br>Winter<br>(Max) | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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                     | 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  |
| Annual                    | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Fire<br>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                     | 0.03 | 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 |

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)

| Equipme<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)

| Vegetatio<br>n            | 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,<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 |
|-----------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Industrial Park | 3,105         | 2,340          | 1,143        | 991,272    | 1,646       | 1,240        | 606        | 525,374  |

|                         |       |       |     |         |     |     |     |         |
|-------------------------|-------|-------|-----|---------|-----|-----|-----|---------|
| User Defined Industrial | 1,394 | 1,051 | 513 | 444,920 | 739 | 557 | 272 | 235,808 |
|-------------------------|-------|-------|-----|---------|-----|-----|-----|---------|

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                                     | 2,002,671                                    | 667,557                                      | —                           |

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

| Land Use                | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-------------------------|----------------------|-----|--------|--------|-----------------------|
| Industrial Park         | 23,300,259           | 261 | 0.0330 | 0.0040 | 36,635,551            |
| User Defined Industrial | 0.00                 | 261 | 0.0330 | 0.0040 | 0.00                  |

5.12. Operational Water and Wastewater Consumption



### 5.12.1. Unmitigated

| Land Use                | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-------------------------|-------------------------|--------------------------|
| Industrial Park         | 308,745,113             | 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) |
|-------------------------|------------------|-------------------------|
| Industrial Park         | 1,656            | —                       |
| 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 |
|----------------|-----------|----------------|---------------|----------------|------------|-------------|
| 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 | 27.9                        | annual days of extreme heat                |
| Extreme Precipitation        | 12.0                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 21.2                        | 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 | 3              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |

|                         |   |   |   |     |
|-------------------------|---|---|---|-----|
| Air Quality Degradation | 0 | 0 | 0 | N/A |
|-------------------------|---|---|---|-----|

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

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

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

6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | 3              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |

|                                 |      |
|---------------------------------|------|
| AQ-Ozone                        | 99.1 |
| AQ-PM                           | 60.9 |
| AQ-DPM                          | 67.4 |
| Drinking Water                  | 96.3 |
| Lead Risk Housing               | 8.87 |
| Pesticides                      | 0.00 |
| Toxic Releases                  | 58.6 |
| Traffic                         | 72.8 |
| Effect Indicators               | —    |
| CleanUp Sites                   | 94.1 |
| Groundwater                     | 68.6 |
| Haz Waste Facilities/Generators | 63.6 |
| Impaired Water Bodies           | 0.00 |
| Solid Waste                     | 75.7 |
| Sensitive Population            | —    |
| Asthma                          | 56.5 |
| Cardio-vascular                 | 74.7 |
| Low Birth Weights               | 44.5 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 61.1 |
| Housing                         | 0.94 |
| Linguistic                      | 36.0 |
| Poverty                         | 19.4 |
| Unemployment                    | 83.2 |

## 7.2. Healthy Places Index Scores

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

| Indicator                                    | Result for Project Census Tract |
|----------------------------------------------|---------------------------------|
| Economic                                     | —                               |
| Above Poverty                                | 84.02412421                     |
| Employed                                     | 1.591171564                     |
| Median HI                                    | 79.9563711                      |
| Education                                    | —                               |
| Bachelor's or higher                         | 28.85923264                     |
| High school enrollment                       | 17.31040678                     |
| Preschool enrollment                         | 36.78942641                     |
| Transportation                               | —                               |
| Auto Access                                  | 72.44963429                     |
| Active commuting                             | 7.917361735                     |
| Social                                       | —                               |
| 2-parent households                          | 44.74528423                     |
| Voting                                       | 49.54446298                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 75.52932119                     |
| Park access                                  | 7.04478378                      |
| Retail density                               | 9.457205184                     |
| Supermarket access                           | 35.77569614                     |
| Tree canopy                                  | 15.46259464                     |
| Housing                                      | —                               |
| Homeownership                                | 91.76183755                     |
| Housing habitability                         | 92.04414218                     |
| Low-inc homeowner severe housing cost burden | 90.09367381                     |
| Low-inc renter severe housing cost burden    | 81.05992557                     |
| Uncrowded housing                            | 69.47260362                     |

|                                       |             |
|---------------------------------------|-------------|
| Health Outcomes                       | —           |
| Insured adults                        | 52.11086873 |
| Arthritis                             | 41.4        |
| Asthma ER Admissions                  | 28.5        |
| High Blood Pressure                   | 35.9        |
| Cancer (excluding skin)               | 49.7        |
| Asthma                                | 32.2        |
| Coronary Heart Disease                | 57.7        |
| Chronic Obstructive Pulmonary Disease | 56.7        |
| Diagnosed Diabetes                    | 36.9        |
| Life Expectancy at Birth              | 29.0        |
| Cognitively Disabled                  | 60.3        |
| Physically Disabled                   | 57.4        |
| Heart Attack ER Admissions            | 27.5        |
| Mental Health Not Good                | 47.3        |
| Chronic Kidney Disease                | 45.1        |
| Obesity                               | 33.5        |
| Pedestrian Injuries                   | 91.8        |
| Physical Health Not Good              | 49.9        |
| Stroke                                | 39.4        |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 26.9        |
| Current Smoker                        | 51.2        |
| No Leisure Time for Physical Activity | 54.9        |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 45.4        |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 40.5 |
| Elderly                          | 74.7 |
| English Speaking                 | 78.9 |
| Foreign-born                     | 23.9 |
| Outdoor Workers                  | 16.6 |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 79.3 |
| Traffic Density                  | 68.0 |
| Traffic Access                   | 23.0 |
| Other Indices                    | —    |
| Hardship                         | 39.4 |
| Other Decision Support           | —    |
| 2016 Voting                      | 59.4 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 70.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 36.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard



Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen                               | Justification                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Land Use                             | Based on client provided data in the TIA.<br>Total Project site for Subarea C is 61.3 acres.                                                                                       |
| Construction: Construction Phases    | Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis.<br>Schedule adjusted to account for 2045 OY.                                  |
| Construction: Off-Road Equipment     | T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases.<br>Standard 8 hours 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 | SCAMQD Rule 1113                                                                                                                                                                   |
| Operations: Vehicle Data             | Trip characteristics based on information provided in the TIA Table 4.4.                                                                                                           |
| Operations: Architectural Coatings   | SCAQMD Rule 1113                                                                                                                                                                   |
| 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: Refrigerants             | Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.                                                                |

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**APPENDIX 3.7:**

**AERMOD MODEL OUTPUTS**

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/16/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Cons CO\15585 Cons CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID CO
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Cons CO.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870
LOCATION VOL29     VOLUME      460639.798    3787451.816    679.140

```

|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |
| LOCATION VOL95 | VOLUME | 461397.891 | 3784711.595 | 626.590 |

|                         |        |              |            |             |         |
|-------------------------|--------|--------------|------------|-------------|---------|
| LOCATION                | VOL96  | VOLUME       | 461396.335 | 3784797.151 | 630.160 |
| LOCATION                | VOL97  | VOLUME       | 461483.447 | 3784714.706 | 622.870 |
| LOCATION                | VOL98  | VOLUME       | 461481.891 | 3784795.596 | 626.210 |
| LOCATION                | VOL99  | VOLUME       | 461486.558 | 3784879.596 | 631.090 |
| LOCATION                | VOL100 | VOLUME       | 461569.003 | 3784776.929 | 621.370 |
| LOCATION                | VOL101 | VOLUME       | 461643.670 | 3784787.818 | 622.790 |
| LOCATION                | VOL102 | VOLUME       | 461562.781 | 3784825.151 | 625.070 |
| ** Source Parameters ** |        |              |            |             |         |
| SRCPARAM                | VOL1   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL2   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL3   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL4   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL5   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL6   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL7   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL8   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL9   | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL10  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL11  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL12  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL13  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL14  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL15  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL16  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL17  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL18  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL19  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL20  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL21  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL22  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL23  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL24  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL25  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL26  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL27  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL28  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL29  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL30  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL31  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL32  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL33  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL34  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL35  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL36  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL37  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL38  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL39  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL40  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL41  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL42  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL43  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL44  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL45  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL46  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL47  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL48  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL49  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL50  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL51  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL52  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL53  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL54  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL55  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL56  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL57  | 0.0024779041 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL58  | 0.0006022248 | 3.490      | 19.572      | 3.250   |

|          |        |              |       |        |       |
|----------|--------|--------------|-------|--------|-------|
| SRCPARAM | VOL59  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL60  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL61  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL62  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL63  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL64  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL65  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL66  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL67  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL68  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL69  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL70  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL71  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL72  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL73  | 0.0006022248 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL74  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL75  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL76  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL77  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL78  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL79  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL80  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL81  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL82  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL83  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL84  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL85  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL86  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL87  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL88  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL89  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL90  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL91  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL92  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL93  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL94  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL95  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL96  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL97  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL98  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL99  | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL100 | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL101 | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL102 | 0.0019227282 | 3.490 | 19.572 | 3.250 |
| URBANSRC | ALL    |              |       |        |       |

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

\*\* Variable Emission Scenario: "Scenario 1"

\*\* 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 |

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|    |           |       |  |       |     |     |     |     |     |     |
|----|-----------|-------|--|-------|-----|-----|-----|-----|-----|-----|
| ** | EMISFACT  | VOL6  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *  | Sunday:   |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL6  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL6  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL6  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL6  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Saturday: |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL7  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Saturday: |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL8  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Saturday: |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL9  |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |  |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL10 |  | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL10 |  | HRDOW | 0.0 |     |     |     |     |     |

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|    |           |       |       |     |     |     |     |     |     |
|----|-----------|-------|-------|-----|-----|-----|-----|-----|-----|
| ** | EMISFACT  | VOL63 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL63 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL63 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | WeekDays: |       |       |     |     |     |     |     |     |
| ** | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL64 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL64 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL65 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| ** | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL65 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL66 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| ** | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL66 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL67 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| ** | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL67 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL68 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL68 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |

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** WeekDays:
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL99      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL100     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL101     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL102     HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

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S0 FINISHED

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\*\* AERMOD Receptor Pathway

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\*\*  
\*\*  
RE STARTING  
INCLUDED "15585 Cons CO.rou"  
RE FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*

ME STARTING  
SURFFILE FONT\_V9\_ADJU\FONT\_v9.SFC  
PROFFILE FONT\_V9\_ADJU\FONT\_v9.PFL  
SURFDATA 3102 2011  
UAIRDATA 3190 2011  
SITEDATA 99999 2011  
PROFBASE 367.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "15585 CONS CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "15585 CONS CO.AD\08H1GALL.PLT" 32  
SUMMFILE "15585 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 1800 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1800 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
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..  
\*\* 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 102 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m

- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model 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: 102 Source(s); 1 Source Group(s); and 94 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 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) = 367.00 ; 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out



\*\*Detailed Error/Message File: 15585 Cons

CO.err

\*\*File for Summary of Results: 15585 Cons

CO.sum

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\*\*\* AERMET - VERSION 16216 \*\*\*

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

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

| SOURCE   |       | NUMBER      | EMISSION    | RATE     | AIRCRAFT  |  | BASE     | RELEASE  | INIT.    | INIT.    |
|----------|-------|-------------|-------------|----------|-----------|--|----------|----------|----------|----------|
| SOURCE   |       | URBAN       | EMISSION    | RATE     | X         |  | ELEV.    | HEIGHT   | SY       | SZ       |
| ID       |       | PART.       | (GRAMS/SEC) |          | (METERS)  |  | (METERS) | (METERS) | (METERS) | (METERS) |
| (METERS) |       | SCALAR VARY | BY          |          |           |  |          |          |          |          |
|          |       | CATS.       |             |          |           |  |          |          |          |          |
| VOL1     |       | 0           | 0.24779E-02 | 461693.7 | 3786276.5 |  | 643.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL2     |       | 0           | 0.24779E-02 | 461646.2 | 3786333.2 |  | 642.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL3     |       | 0           | 0.24779E-02 | 461591.3 | 3786386.2 |  | 647.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL4     |       | 0           | 0.24779E-02 | 461541.9 | 3786437.5 |  | 649.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL5     |       | 0           | 0.24779E-02 | 461499.8 | 3786483.2 |  | 650.3    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL6     |       | 0           | 0.24779E-02 | 461461.4 | 3786530.8 |  | 651.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL7     |       | 0           | 0.24779E-02 | 461408.3 | 3786578.3 |  | 653.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL8     |       | 0           | 0.24779E-02 | 461452.2 | 3786636.9 |  | 648.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL9     |       | 0           | 0.24779E-02 | 461512.6 | 3786686.3 |  | 645.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL10    |       | 0           | 0.24779E-02 | 461573.0 | 3786730.2 |  | 644.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL11    |       | 0           | 0.24779E-02 | 461366.2 | 3786625.9 |  | 655.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL12    |       | 0           | 0.24779E-02 | 461289.4 | 3786679.0 |  | 662.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL13    |       | 0           | 0.24779E-02 | 461373.6 | 3786706.4 |  | 654.4    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL14    |       | 0           | 0.24779E-02 | 461441.3 | 3786713.7 |  | 647.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL15    |       | 0           | 0.24779E-02 | 461234.5 | 3786728.4 |  | 667.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL16    |       | 0           | 0.24779E-02 | 461199.7 | 3786774.1 |  | 667.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL17    |       | 0           | 0.24779E-02 | 461152.2 | 3786821.7 |  | 666.4    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL18    |       | 0           | 0.24779E-02 | 461086.3 | 3786863.8 |  | 668.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL19    |       | 0           | 0.24779E-02 | 461038.7 | 3786904.0 |  | 673.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL20    |       | 0           | 0.24779E-02 | 460978.4 | 3786938.8 |  | 680.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |
| VOL21    |       | 0           | 0.24779E-02 | 460927.1 | 3786993.7 |  | 681.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW |             | NO          |          |           |  |          |          |          |          |

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SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

|       |       |             |          |           |       |      |       |      |
|-------|-------|-------------|----------|-----------|-------|------|-------|------|
| VOL41 | 0     | 0.24779E-02 | 461007.3 | 3786998.4 | 675.5 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL42 | 0     | 0.24779E-02 | 461052.2 | 3787052.6 | 669.8 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL43 | 0     | 0.24779E-02 | 461134.2 | 3787056.6 | 662.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL44 | 0     | 0.24779E-02 | 461082.6 | 3786975.9 | 671.8 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |

|           |   |             |          |           |       |      |       |      |
|-----------|---|-------------|----------|-----------|-------|------|-------|------|
| VOL45     | 0 | 0.24779E-02 | 461121.0 | 3786917.8 | 665.9 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL46     | 0 | 0.24779E-02 | 461167.2 | 3786986.5 | 660.1 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL47     | 0 | 0.24779E-02 | 461253.2 | 3786983.9 | 656.4 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL48     | 0 | 0.24779E-02 | 461208.2 | 3786903.2 | 658.5 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL49     | 0 | 0.24779E-02 | 461234.7 | 3786831.8 | 660.3 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL50     | 0 | 0.24779E-02 | 461291.5 | 3786905.9 | 655.3 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL51     | 0 | 0.24779E-02 | 461374.8 | 3786887.4 | 652.2 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL52     | 0 | 0.24779E-02 | 461317.9 | 3786823.9 | 656.1 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL53     | 0 | 0.24779E-02 | 461287.5 | 3786757.8 | 660.4 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL54     | 0 | 0.24779E-02 | 461373.5 | 3786786.9 | 653.5 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL55     | 0 | 0.24779E-02 | 461455.4 | 3786801.4 | 648.5 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL56     | 0 | 0.24779E-02 | 461385.4 | 3786838.4 | 651.8 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL57     | 0 | 0.24779E-02 | 461529.4 | 3786768.4 | 645.1 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL58     | 0 | 0.60222E-03 | 462577.2 | 3786719.5 | 633.4 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL59     | 0 | 0.60222E-03 | 462660.5 | 3786693.7 | 632.6 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL60     | 0 | 0.60222E-03 | 462744.4 | 3786674.3 | 630.9 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL61     | 0 | 0.60222E-03 | 462828.9 | 3786650.9 | 628.3 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL62     | 0 | 0.60222E-03 | 462868.8 | 3786625.6 | 626.4 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL63     | 0 | 0.60222E-03 | 462848.2 | 3786541.7 | 623.0 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL64     | 0 | 0.60222E-03 | 462835.3 | 3786455.5 | 622.0 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL65     | 0 | 0.60222E-03 | 462621.2 | 3786659.7 | 631.7 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL66     | 0 | 0.60222E-03 | 462660.5 | 3786609.8 | 629.1 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL67     | 0 | 0.60222E-03 | 462684.6 | 3786547.6 | 627.2 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL68     | 0 | 0.60222E-03 | 462745.6 | 3786589.8 | 627.1 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL69     | 0 | 0.60222E-03 | 462807.2 | 3786567.0 | 625.0 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL70     | 0 | 0.60222E-03 | 462716.8 | 3786469.0 | 624.4 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL71     | 0 | 0.60222E-03 | 462751.4 | 3786439.1 | 622.4 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL72     | 0 | 0.60222E-03 | 462835.3 | 3786419.7 | 622.0 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL73     | 0 | 0.60222E-03 | 462764.4 | 3786515.3 | 623.5 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL74     | 0 | 0.19227E-02 | 461061.9 | 3784936.7 | 654.0 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL75     | 0 | 0.19227E-02 | 461059.8 | 3784850.6 | 644.0 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL76     | 0 | 0.19227E-02 | 461057.6 | 3784762.3 | 642.0 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |
| VOL77     | 0 | 0.19227E-02 | 461141.6 | 3784805.4 | 641.6 | 3.49 | 19.57 | 3.25 |
| YES HRDOW |   | NO          |          |           |       |      |       |      |

VOL78 0 0.19227E-02 461139.5 3784721.4 639.0 3.49 19.57 3.25  
YES HRDOW NO  
VOL79 0 0.19227E-02 461225.6 3784805.4 636.6 3.49 19.57 3.25  
YES HRDOW NO  
VOL80 0 0.19227E-02 461225.6 3784723.6 634.0 3.49 19.57 3.25  
YES HRDOW NO  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

|          |        | NUMBER | EMISSION RATE |          |           | BASE     | RELEASE  | INIT.    | INIT. |
|----------|--------|--------|---------------|----------|-----------|----------|----------|----------|-------|
|          |        | URBAN  | 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            |          |           |          |          |          |       |
| -----    |        |        |               |          |           |          |          |          |       |
| -----    |        |        |               |          |           |          |          |          |       |
| VOL81    |        | 0      | 0.19227E-02   | 461223.7 | 3784635.4 | 631.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL82    |        | 0      | 0.19227E-02   | 461156.8 | 3784658.7 | 636.7    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL83    |        | 0      | 0.19227E-02   | 461312.3 | 3784885.8 | 641.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL84    |        | 0      | 0.19227E-02   | 461310.8 | 3784801.8 | 632.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL85    |        | 0      | 0.19227E-02   | 461312.3 | 3784714.7 | 629.8    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL86    |        | 0      | 0.19227E-02   | 461309.2 | 3784630.7 | 628.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL87    |        | 0      | 0.19227E-02   | 461284.3 | 3784548.3 | 629.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL88    |        | 0      | 0.19227E-02   | 461369.9 | 3784543.6 | 624.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL89    |        | 0      | 0.19227E-02   | 461289.0 | 3784462.7 | 624.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL90    |        | 0      | 0.19227E-02   | 461225.2 | 3784422.3 | 627.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL91    |        | 0      | 0.19227E-02   | 461371.4 | 3784458.0 | 621.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL92    |        | 0      | 0.19227E-02   | 461270.3 | 3784338.3 | 620.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL93    |        | 0      | 0.19227E-02   | 461310.8 | 3784375.6 | 619.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL94    |        | 0      | 0.19227E-02   | 461396.3 | 3784627.6 | 624.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL95    |        | 0      | 0.19227E-02   | 461397.9 | 3784711.6 | 626.6    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL96    |        | 0      | 0.19227E-02   | 461396.3 | 3784797.2 | 630.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL97    |        | 0      | 0.19227E-02   | 461483.4 | 3784714.7 | 622.9    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL98    |        | 0      | 0.19227E-02   | 461481.9 | 3784795.6 | 626.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL99    |        | 0      | 0.19227E-02   | 461486.6 | 3784879.6 | 631.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL100   |        | 0      | 0.19227E-02   | 461569.0 | 3784776.9 | 621.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |

VOL101 0 0.19227E-02 461643.7 3784787.8 622.8 3.49 19.57 3.25  
YES HRDOW NO  
VOL102 0 0.19227E-02 461562.8 3784825.2 625.1 3.49 19.57 3.25  
YES HRDOW NO  
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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* 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 , VOL5 , VOL6 ,          |
| VOL7        | , VOL8 ,                                           |
|             | VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,     |
|             | VOL15 , VOL16 ,                                    |
|             | VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,    |
|             | VOL23 , VOL24 ,                                    |
|             | VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,    |
|             | VOL31 , VOL32 ,                                    |
|             | VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,    |
|             | VOL39 , VOL40 ,                                    |
|             | VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,    |
|             | VOL47 , VOL48 ,                                    |
|             | VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,    |
|             | VOL55 , VOL56 ,                                    |
|             | VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,    |
|             | VOL63 , VOL64 ,                                    |
|             | VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,    |
|             | VOL71 , VOL72 ,                                    |
|             | VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,    |
|             | VOL79 , VOL80 ,                                    |
|             | VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,    |
|             | VOL87 , VOL88 ,                                    |
|             | VOL89 , VOL90 , VOL91 , VOL92 , VOL93 , VOL94 ,    |
|             | VOL95 , VOL96 ,                                    |
|             | VOL97 , VOL98 , VOL99 , VOL100 , VOL101 , VOL102 , |

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

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

SOURCE IDs  
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SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
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\*\*\* MODELOPTs: RegDFault CONC ELEV FLGPOL URBAN ADJ\_U\*

| SOURCE ID = VOL1 |        |        |        | ; SOURCE TYPE = VOLUME |        |      |        |      |        |      |        |
|------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR             | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| SCALAR           | HOUR   | SCALAR | HOUR   | SCALAR                 |        |      |        |      |        |      |        |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 | .1000E+01 | 14 | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 | 17 | .1000E+01 | 18 | .1000E+01 |
| 19 | .1000E+01 | 20 | .1000E+01 | 21 | .1000E+01 | 22 | .1000E+01 | 23 | .1000E+01 | 24 | .1000E+01 |
| 25 | .0000E+00 | 26 | .0000E+00 | 27 | .0000E+00 | 28 | .0000E+00 | 29 | .0000E+00 | 30 | .0000E+00 |
| 31 | .0000E+00 | 32 | .0000E+00 | 33 | .0000E+00 | 34 | .0000E+00 | 35 | .0000E+00 | 36 | .0000E+00 |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

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

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 |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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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\* 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 |
| 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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SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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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) *

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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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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*** MODELOPTs:  RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL5 ; 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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SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL6 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL7 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL8 ; 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

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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL9 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL10 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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 = VOL11 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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 = VOL12 ; SOURCE TYPE = VOLUME :

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

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 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 09:15:37

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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 = VOL13      |                | ; SOURCE TYPE = VOLUME |                | :              |                |                |                |                |                |                |                |
|------------------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR |
| DAY OF WEEK = WEEKDAY  |                |                        |                |                |                |                |                |                |                |                |                |
| 1 .0000E+00            | 2 .0000E+00    | 3 .0000E+00            | 4 .0000E+00    | 5 .0000E+00    | 6              | 7 .0000E+00    | 8 .0000E+00    | 9 .1000E+01    | 10 .1000E+01   | 11 .1000E+01   | 12 .1000E+01   |
| 13 .1000E+01           | 14             | 15 .1000E+01           | 16 .1000E+01   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 23 .0000E+00   | 24 .0000E+00   |

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 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 09:15:37

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

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

SOURCE ID = VOL14 ; 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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 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 09:15:37

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

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

SOURCE ID = VOL15 ; 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 |             |             |   |

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37
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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) \*

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SOURCE ID = VOL16 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37
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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) \*

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SOURCE ID = VOL17 ; 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
```

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:15:37
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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 = VOL18 ; 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
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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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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:15:37
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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 = VOL19 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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 = VOL20 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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 = VOL21 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL22 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen

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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 = VOL23 ; 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 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen

SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* \*\*\* 09:15:37

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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 = VOL24 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL25 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL26 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                PAGE 33
*** MODELOPTs:  RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL27 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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09:15:37

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                                PAGE 34
*** MODELOPTs:  RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL28 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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 = VOL29 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL30 ; 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 |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL31 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL32 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL33 ; 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



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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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 = VOL34 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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 = VOL35 ; 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

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  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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:15:37

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                                PAGE 42
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = VOL36      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:15:37

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                                PAGE 43
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

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SOURCE ID = VOL37          ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:15:37
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      PAGE 44
*** MODELOPTs:  RegDFault CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = VOL38          ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL39 ; 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 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL40 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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 = VOL41 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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 = VOL42 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 09:15:37
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                                PAGE 49
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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SOURCE ID = VOL43 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 09:15:37
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                                PAGE 50
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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SOURCE ID = VOL44 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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                                PAGE 51
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL45 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 09:15:37

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

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

SOURCE ID = VOL46 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 09:15:37

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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 = VOL47 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL48 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL49 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 09:15:37
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                                PAGE 56
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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```
SOURCE ID = VOL50 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 09:15:37
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                                PAGE 57
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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```
SOURCE ID = VOL51 ; 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
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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
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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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) *
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```
SOURCE ID = VOL52 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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) *
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```
SOURCE ID = VOL53 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL54 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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

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

SOURCE ID = VOL55 ; 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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 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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09:15:37

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

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

SOURCE ID = VOL56 ; 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 |  |

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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) \*

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SOURCE ID = VOL57 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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) \*

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SOURCE ID = VOL58 ; 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

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DAY OF WEEK = SUNDAY

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*** AERMET - VERSION 16216 ***
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DAY OF WEEK = WEEKDAY

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

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DAY OF WEEK = WEEKDAY

|   |            |   |            |   |            |   |            |   |            |   |            |
|---|------------|---|------------|---|------------|---|------------|---|------------|---|------------|
| 1 | .00000E+00 | 2 | .00000E+00 | 3 | .00000E+00 | 4 | .00000E+00 | 5 | .00000E+00 | 6 | .00000E+00 |
|---|------------|---|------------|---|------------|---|------------|---|------------|---|------------|

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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 = VOL61 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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) *

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SOURCE ID = VOL62 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL63 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL64 ; 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 |              |              |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL65 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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 = VOL66 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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 = VOL67 ; 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
```

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                                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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                09:15:37

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                                PAGE 74
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL68 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                09:15:37

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                                PAGE 75
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL69 ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***
***
09:15:37

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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) *

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SOURCE ID = VOL70      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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*** MODELOPTs:  RegDFault  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = VOL71 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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09:15:37

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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 = VOL72 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL73 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL74 ; 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 |           |    |           |    |           |    |

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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                ***
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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 = VOL75 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                ***
                                09:15:37

                                PAGE 82
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL76 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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 = VOL77 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37

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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 = VOL78 ; SOURCE TYPE = VOLUME :

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

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL79      |                | ; SOURCE TYPE = VOLUME |                | :              |                |                |                |                |                |                |                |
|------------------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR |
| DAY OF WEEK = WEEKDAY  |                |                        |                |                |                |                |                |                |                |                |                |
| 1 .0000E+00            | 2 .0000E+00    | 3 .0000E+00            | 4 .0000E+00    | 5 .0000E+00    | 6              | 7 .0000E+00    | 8 .0000E+00    | 9 .1000E+01    | 10 .1000E+01   | 11 .1000E+01   | 12 .1000E+01   |
| 13 .1000E+01           | 14             | 15 .1000E+01           | 16 .1000E+01   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 23 .0000E+00   | 24 .0000E+00   |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 09:15:37

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = VOL80 ; 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 |              |              |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = VOL81 ; 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 |             |             |   |

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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) \*

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SOURCE ID = VOL82 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 09:15:37

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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) \*

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SOURCE ID = VOL83 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:15:37
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PAGE 90
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL84      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:15:37
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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 = VOL85      ; SOURCE TYPE = VOLUME      :
HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                DAY OF WEEK = WEEKDAY
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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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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 = VOL86 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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 = VOL87 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL88 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen

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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 = VOL89 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen

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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 = VOL90 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL91 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL92 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                PAGE 99
*** MODELOPTs:  RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL93 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                PAGE 100
*** MODELOPTs:  RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL94 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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 = VOL95 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:15:37

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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 = VOL96 ; 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 |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL97 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL98 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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 = VOL99 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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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) *
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SOURCE ID = VOL100 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:15:37
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PAGE 107
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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```
SOURCE ID = VOL101 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
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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 = VOL102 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

|                                             |                        |
|---------------------------------------------|------------------------|
| ( 463154.3, 3786819.6, 631.4, 1734.0, 2.0); | ( 463167.5, 3786865.5, |
| 633.6, 1734.0, 2.0);                        |                        |
| ( 463147.6, 3786873.2, 634.1, 1734.0, 2.0); | ( 463129.9, 3786877.4, |
| 634.4, 1734.0, 2.0);                        |                        |
| ( 463110.0, 3786886.9, 635.4, 1734.0, 2.0); | ( 463059.0, 3786966.9, |
| 641.4, 1734.0, 2.0);                        |                        |
| ( 463074.9, 3787087.9, 646.7, 1734.0, 2.0); | ( 463102.5, 3787076.0, |
| 645.0, 1734.0, 2.0);                        |                        |
| ( 462919.9, 3787058.3, 650.6, 1734.0, 2.0); | ( 463042.0, 3787098.7, |
| 649.3, 1734.0, 2.0);                        |                        |
| ( 462998.1, 3787106.0, 651.7, 1734.0, 2.0); | ( 462944.0, 3787123.4, |
| 653.8, 1734.0, 2.0);                        |                        |
| ( 462850.6, 3787079.7, 652.9, 1734.0, 2.0); | ( 462807.5, 3787091.0, |
| 653.6, 1734.0, 2.0);                        |                        |
| ( 462821.9, 3787159.9, 658.2, 1734.0, 2.0); | ( 462755.2, 3787105.3, |
| 654.6, 1734.0, 2.0);                        |                        |
| ( 462743.8, 3787181.3, 659.7, 1734.0, 2.0); | ( 462870.3, 3787147.1, |
| 657.4, 1734.0, 2.0);                        |                        |
| ( 462890.0, 3787138.7, 656.5, 1734.0, 2.0); | ( 462725.4, 3787114.5, |
| 655.2, 1734.0, 2.0);                        |                        |
| ( 462685.8, 3787125.8, 655.9, 1734.0, 2.0); | ( 462656.2, 3787132.7, |
| 656.5, 1734.0, 2.0);                        |                        |
| ( 462632.9, 3787123.9, 655.6, 1734.0, 2.0); | ( 462595.9, 3787152.0, |
| 658.4, 1734.0, 2.0);                        |                        |
| ( 462571.7, 3787160.3, 658.8, 1734.0, 2.0); | ( 462473.7, 3787233.0, |
| 657.1, 1734.0, 2.0);                        |                        |
| ( 462534.0, 3787244.6, 659.9, 1734.0, 2.0); | ( 462400.1, 3787275.4, |
| 659.0, 1734.0, 2.0);                        |                        |
| ( 462229.2, 3787434.2, 674.5, 1734.0, 2.0); | ( 462257.0, 3787342.4, |
| 668.1, 1734.0, 2.0);                        |                        |
| ( 462128.4, 3787527.6, 684.6, 1734.0, 2.0); | ( 462183.2, 3787452.4, |
| 675.8, 1734.0, 2.0);                        |                        |
| ( 462022.5, 3787623.1, 687.6, 1734.0, 2.0); | ( 461918.3, 3787709.0, |
| 694.2, 1734.0, 2.0);                        |                        |
| ( 462038.5, 3787667.1, 695.0, 1734.0, 2.0); | ( 461424.9, 3788158.1, |
| 731.4, 1734.0, 2.0);                        |                        |
| ( 461926.8, 3788065.0, 727.1, 1734.0, 2.0); | ( 461937.8, 3787798.6, |
| 702.8, 1734.0, 2.0);                        |                        |
| ( 461956.2, 3787956.4, 718.2, 1734.0, 2.0); | ( 461303.4, 3788188.5, |
| 726.6, 1734.0, 2.0);                        |                        |
| ( 461132.5, 3788399.4, 744.9, 1734.0, 2.0); | ( 461058.7, 3788731.5, |
| 757.8, 1734.0, 2.0);                        |                        |
| ( 460943.7, 3788817.1, 758.9, 1734.0, 2.0); | ( 457324.4, 3790478.1, |
| 770.2, 1734.0, 2.0);                        |                        |
| ( 457715.3, 3790467.0, 770.2, 1734.0, 2.0); | ( 457385.4, 3790493.9, |
| 772.7, 1734.0, 2.0);                        |                        |
| ( 457752.2, 3790534.9, 771.1, 1734.0, 2.0); | ( 458383.4, 3790238.2, |
| 751.7, 1734.0, 2.0);                        |                        |
| ( 463178.4, 3786251.1, 613.0, 1734.0, 2.0); | ( 462814.4, 3786754.2, |
| 633.2, 1734.0, 2.0);                        |                        |
| ( 462674.0, 3786877.7, 639.7, 1734.0, 2.0); | ( 462604.9, 3786782.6, |
| 635.5, 1734.0, 2.0);                        |                        |
| ( 462768.8, 3786780.7, 634.5, 1734.0, 2.0); | ( 461416.7, 3783609.8, |
| 589.4, 1734.0, 2.0);                        |                        |
| ( 461655.6, 3783762.7, 593.9, 1734.0, 2.0); | ( 461824.6, 3783749.2, |
| 599.8, 1734.0, 2.0);                        |                        |
| ( 461846.6, 3783749.2, 600.8, 1734.0, 2.0); | ( 461939.4, 3783743.2, |
| 615.2, 1734.0, 2.0);                        |                        |
| ( 462019.9, 3783739.8, 613.5, 1734.0, 2.0); | ( 462121.1, 3783735.6, |
| 606.0, 1734.0, 2.0);                        |                        |
| ( 462214.8, 3783729.3, 610.5, 1734.0, 2.0); | ( 462334.6, 3783705.5, |
| 621.8, 1734.0, 2.0);                        |                        |
| ( 461658.1, 3783690.3, 600.5, 1734.0, 2.0); | ( 461041.9, 3783495.8, |
| 601.3, 1734.0, 2.0);                        |                        |
| ( 461249.5, 3783484.0, 594.5, 1734.0, 2.0); | ( 461451.2, 3783502.2, |



```

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SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                  ***
***                                  09:15:37

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$$\begin{aligned} & (462710.5, 3782876.4, 547.6, 1734.0, 2.0); & (462069.8, 3783383.5, \\ & 571.2, 1734.0, 2.0); \\ & (462277.2, 3783298.3, 561.0, 1734.0, 2.0); & (461797.0, 3783468.7, \\ & 575.6, 1734.0, 2.0); \end{aligned}$$

```

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SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***
                                     *** 09:15:37

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[illegible]

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,  
\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

Surface file:  
FONT\_V9\_ADJU\FONT\_v9.SFC Met  
Version: 16216  
Profile file:  
FONT\_V9\_ADJU\FONT\_v9.PFL  
Surface format:  
FREE

Profile format:  
FREE

Surface station no.: 3102 Upper air station no.: 3190  
Name: UNKNOWN Name:  
UNKNOWN  
Year: 2011 Year: 2011

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     |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 01  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 69. |    |    |     | 9.1 | 276.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 02  | -23.8 | 0.239 | -9.000 | -9.000 | -999. | 281.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 52. |    |    |     | 9.1 | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 03  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 32. |    |    |     | 9.1 | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 04  | -1.4  | 0.067 | -9.000 | -9.000 | -999. | 57.   | 18.3  | 0.25 | 2.82 | 1.00  | 0.40   |     |    |
| 27. |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 05  | -18.6 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 51. |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 06  | -29.7 | 0.296 | -9.000 | -9.000 | -999. | 387.  | 96.6  | 0.25 | 2.82 | 1.00  | 2.70   |     |    |
| 53. |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 07  | -24.0 | 0.239 | -9.000 | -9.000 | -999. | 282.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 70. |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 08  | -8.4  | 0.138 | -9.000 | -9.000 | -999. | 127.  | 27.3  | 0.25 | 2.82 | 0.54  | 1.30   |     |    |
| 72. |    |    |     | 9.1 | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 09  | 44.3  | 0.280 | 0.571  | 0.005  | 147.  | 356.  | -43.5 | 0.25 | 2.82 | 0.32  | 2.20   |     |    |
| 67. |    |    |     | 9.1 | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 10  | 122.7 | 0.264 | 0.952  | 0.005  | 247.  | 326.  | -13.2 | 0.25 | 2.82 | 0.25  | 1.80   |     |    |
| 83. |    |    |     | 9.1 | 279.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 11  | 179.8 | 0.316 | 1.733  | 0.005  | 1017. | 426.  | -15.4 | 0.25 | 2.82 | 0.22  | 2.20   |     |    |
| 58. |    |    |     | 9.1 | 282.0 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11  | 01 | 01 | 1   | 12  | 206.0 | 0.320 | 1.940  | 0.008  | 1244. | 435.  | -14.0 | 0.25 | 2.82 | 0.21  | 2.20   |     |    |

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|-------------|-------------|------------|------------|-------------|---------|
| 463154.33   | 3786819.61  | 0.28716    | (16121216) | 463167.45   |         |
| 3786865.52  | 0.24746     | (16121216) |            |             |         |
| 463147.58   | 3786873.25  | 0.24471    | (16121216) | 463129.92   |         |
| 3786877.44  | 0.24405     | (16121216) |            |             |         |
| 463110.04   | 3786886.94  | 0.24085    | (16121216) | 463059.03   |         |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3786966.87 | 0.22988    | (16121216) |                      |
| 463074.93  | 3787087.88 | 0.24062    | (16121216) 463102.53 |
| 3787075.96 | 0.23338    | (16121216) |                      |
| 462919.92  | 3787058.29 | 0.27383    | (16121216) 463042.03 |
| 3787098.70 | 0.24907    | (16121216) |                      |
| 462998.09  | 3787105.99 | 0.25993    | (16121216) 462943.99 |
| 3787123.43 | 0.27469    | (16121216) |                      |
| 462850.58  | 3787079.71 | 0.29690    | (16121216) 462807.52 |
| 3787090.97 | 0.31115    | (16121216) |                      |
| 462821.88  | 3787159.87 | 0.30578    | (16121216) 462755.22 |
| 3787105.29 | 0.32830    | (16121216) |                      |
| 462743.77  | 3787181.31 | 0.32369    | (16121216) 462870.28 |
| 3787147.15 | 0.29378    | (16121216) |                      |
| 462889.99  | 3787138.70 | 0.28881    | (16121216) 462725.43 |
| 3787114.51 | 0.33781    | (16121216) |                      |
| 462685.82  | 3787125.77 | 0.35000    | (16121216) 462656.17 |
| 3787132.72 | 0.35896    | (16121216) |                      |
| 462632.89  | 3787123.90 | 0.36885    | (16121216) 462595.92 |
| 3787152.05 | 0.37488    | (16121216) |                      |
| 462571.70  | 3787160.31 | 0.38060    | (16121216) 462473.70 |
| 3787233.03 | 0.38084    | (16121216) |                      |
| 462534.01  | 3787244.58 | 0.35819    | (16121216) 462400.07 |
| 3787275.41 | 0.37626    | (16121216) |                      |
| 462229.16  | 3787434.24 | 0.34280    | (13121916) 462256.97 |
| 3787342.44 | 0.36400    | (16121216) |                      |
| 462128.43  | 3787527.59 | 0.35792    | (13121916) 462183.16 |
| 3787452.38 | 0.34042    | (13121916) |                      |
| 462022.45  | 3787623.08 | 0.34466    | (13121916) 461918.34 |
| 3787709.00 | 0.40686    | (15122116) |                      |
| 462038.54  | 3787667.10 | 0.34564    | (13121916) 461424.87 |
| 3788158.12 | 0.36663    | (15122116) |                      |
| 461926.79  | 3788065.01 | 0.36372    | (15122116) 461937.75 |
| 3787798.61 | 0.39393    | (15122116) |                      |
| 461956.17  | 3787956.45 | 0.37418    | (15122116) 461303.41 |
| 3788188.53 | 0.33849    | (15122116) |                      |
| 461132.48  | 3788399.44 | 0.19284    | (15122116) 461058.72 |
| 3788731.50 | 0.17448    | (13031809) |                      |
| 460943.68  | 3788817.15 | 0.18943    | (13031809) 457324.43 |
| 3790478.09 | 0.07438    | (16121510) |                      |
| 457715.29  | 3790466.96 | 0.09143    | (16121510) 457385.37 |
| 3790493.92 | 0.07787    | (16121510) |                      |
| 457752.21  | 3790534.94 | 0.09368    | (16121510) 458383.39 |
| 3790238.21 | 0.10136    | (16121510) |                      |
| 463178.40  | 3786251.10 | 0.32960    | (13111916) 462814.44 |
| 3786754.18 | 0.57878    | (16121216) |                      |
| 462674.03  | 3786877.67 | 0.33705    | (12121715) 462604.90 |
| 3786782.62 | 0.51024    | (13112916) |                      |
| 462768.77  | 3786780.67 | 0.45570    | (16121216) 461416.67 |
| 3783609.80 | 0.27781    | (15021709) |                      |
| 461655.59  | 3783762.73 | 0.21352    | (15021709) 461824.61 |
| 3783749.17 | 0.17550    | (16101209) |                      |
| 461846.64  | 3783749.17 | 0.17310    | (16101209) 461939.41 |
| 3783743.24 | 0.16442    | (16101209) |                      |
| 462019.90  | 3783739.85 | 0.15585    | (16101209) 462121.14 |
| 3783735.61 | 0.14528    | (16101209) |                      |
| 462214.76  | 3783729.26 | 0.13761    | (16101209) 462334.64 |
| 3783705.54 | 0.12869    | (16101209) |                      |
| 461658.13  | 3783690.29 | 0.21005    | (15021709) 461041.92 |
| 3783495.78 | 0.17337    | (12021513) |                      |
| 461249.49  | 3783484.05 | 0.22601    | (15021709) 461451.20 |
| 3783502.23 | 0.25585    | (15021709) |                      |
| 461567.30  | 3783209.63 | 0.21134    | (15021709) 461502.80 |
| 3783145.13 | 0.21523    | (15021709) |                      |
| 461612.45  | 3783185.00 | 0.20147    | (15021709) 460924.52 |
| 3783393.96 | 0.14794    | (15120909) |                      |
| 460848.29  | 3783334.15 | 0.14128    | (15120909) 460765.02 |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3783264.37 | 0.13298    | (15120909) |                      |
| 460668.85  | 3783186.38 | 0.12301    | (15120909) 460574.44 |
| 3783105.46 | 0.11338    | (15120909) |                      |
| 460496.45  | 3783051.51 | 0.10547    | (15120909) 460712.73 |
| 3783532.65 | 0.12665    | (15120909) |                      |
| 460583.91  | 3783527.38 | 0.11285    | (15120909) 460501.88 |
| 3783491.78 | 0.10448    | (15120909) |                      |
| 460403.69  | 3783447.41 | 0.09560    | (11011209) 460303.99 |
| 3783403.05 | 0.09286    | (11011209) |                      |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 09:15:37

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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 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* 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) |            |             |         |
| 459503.27   | 3782889.01  | 0.07511    | (16011409) | 459388.10   |         |
| 3783065.74  | 0.07432     | (16011409) |            |             |         |
| 459382.29   | 3783016.73  | 0.07466    | (16011409) | 459350.12   |         |
| 3783155.49  | 0.07700     | (11121211) |            |             |         |
| 459320.33   | 3783264.86  | 0.07774    | (11121211) | 463904.58   |         |
| 3786591.83  | 0.16523     | (12121715) |            |             |         |
| 466077.15   | 3784031.33  | 0.07260    | (15012809) | 466200.85   |         |
| 3784253.98  | 0.06654     | (13111210) |            |             |         |
| 465960.20   | 3784644.19  | 0.07214    | (13122709) | 466195.23   |         |
| 3784596.96  | 0.07005     | (13122709) |            |             |         |
| 462710.50   | 3782876.40  | 0.10484    | (11010309) | 462069.84   |         |
| 3783383.52  | 0.14783     | (16101209) |            |             |         |
| 462277.17   | 3783298.31  | 0.13172    | (16101209) | 461797.05   |         |
| 3783468.72  | 0.16443     | (11100512) |            |             |         |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
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\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 09:15:37

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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 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|-------------|-------------|------------|------------|-------------|---------|
| 463154.33   | 3786819.61  | 0.11011    | (11111816) | 463167.45   |         |
| 3786865.52  | 0.10176     | (11111816) |            |             |         |
| 463147.58   | 3786873.25  | 0.10353    | (11111816) | 463129.92   |         |
| 3786877.44  | 0.10471     | (11111816) |            |             |         |
| 463110.04   | 3786886.94  | 0.10356    | (11111816) | 463059.03   |         |
| 3786966.87  | 0.09160     | (16011516) |            |             |         |
| 463074.93   | 3787087.88  | 0.07710    | (16011516) | 463102.53   |         |
| 3787075.96  | 0.07795     | (16011516) |            |             |         |
| 462919.92   | 3787058.29  | 0.07605    | (16011516) | 463042.03   |         |
| 3787098.70  | 0.07567     | (16011516) |            |             |         |
| 462998.09   | 3787105.99  | 0.07379    | (16011516) | 462943.99   |         |
| 3787123.43  | 0.07023     | (16011516) |            |             |         |
| 462850.58   | 3787079.71  | 0.07053    | (16120516) | 462807.52   |         |
| 3787090.97  | 0.07223     | (16122316) |            |             |         |
| 462821.88   | 3787159.87  | 0.07289    | (16122316) | 462755.22   |         |
| 3787105.29  | 0.07580     | (16122316) |            |             |         |
| 462743.77   | 3787181.31  | 0.07796    | (16122316) | 462870.28   |         |
| 3787147.15  | 0.07003     | (16122316) |            |             |         |
| 462889.99   | 3787138.70  | 0.06888    | (16122316) | 462725.43   |         |
| 3787114.51  | 0.07802     | (16122316) |            |             |         |
| 462685.82   | 3787125.77  | 0.08112    | (16122316) | 462656.17   |         |
| 3787132.72  | 0.08352     | (16122316) |            |             |         |
| 462632.89   | 3787123.90  | 0.08527    | (16122316) | 462595.92   |         |
| 3787152.05  | 0.08869     | (16122316) |            |             |         |
| 462571.70   | 3787160.31  | 0.09085    | (16122316) | 462473.70   |         |
| 3787233.03  | 0.09838     | (16122316) |            |             |         |
| 462534.01   | 3787244.58  | 0.09290    | (16122316) | 462400.07   |         |
| 3787275.41  | 0.10210     | (16122316) |            |             |         |
| 462229.16   | 3787434.24  | 0.11347    | (11111816) | 462256.97   |         |
| 3787342.44  | 0.11422     | (11111816) |            |             |         |
| 462128.43   | 3787527.59  | 0.10901    | (11111816) | 462183.16   |         |
| 3787452.38  | 0.11669     | (11111816) |            |             |         |
| 462022.45   | 3787623.08  | 0.10099    | (16011516) | 461918.34   |         |
| 3787709.00  | 0.10482     | (15122116) |            |             |         |
| 462038.54   | 3787667.10  | 0.09630    | (15120916) | 461424.87   |         |
| 3788158.12  | 0.08205     | (16010616) |            |             |         |
| 461926.79   | 3788065.01  | 0.07862    | (15122116) | 461937.75   |         |
| 3787798.61  | 0.09671     | (15122116) |            |             |         |
| 461956.17   | 3787956.45  | 0.08507    | (15122116) | 461303.41   |         |
| 3788188.53  | 0.08420     | (16010616) |            |             |         |
| 461132.48   | 3788399.44  | 0.06734    | (16010616) | 461058.72   |         |
| 3788731.50  | 0.04793     | (16010616) |            |             |         |
| 460943.68   | 3788817.15  | 0.04231    | (16010616) | 457324.43   |         |
| 3790478.09  | 0.02415     | (12112716) |            |             |         |
| 457715.29   | 3790466.96  | 0.02476    | (12112716) | 457385.37   |         |
| 3790493.92  | 0.02430     | (12112716) |            |             |         |
| 457752.21   | 3790534.94  | 0.02431    | (12112716) | 458383.39   |         |
| 3790238.21  | 0.02588     | (13012516) |            |             |         |
| 463178.40   | 3786251.10  | 0.09836    | (13111916) | 462814.44   |         |
| 3786754.18  | 0.27189     | (16010616) |            |             |         |
| 462674.03   | 3786877.67  | 0.13365    | (16010616) | 462604.90   |         |
| 3786782.62  | 0.28691     | (16010616) |            |             |         |
| 462768.77   | 3786780.67  | 0.24401    | (16010616) | 461416.67   |         |

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***
                                     09:15:37

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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                                               | , VOL5                | , VOL6  | , VOL7  |  |
| VOL7 , VOL8                                               | , VOL9                | , VOL10 | , VOL11 |  |
| VOL12 , VOL13                                             | , VOL14               | , VOL15 | , VOL16 |  |
| VOL15 , VOL16                                             | , VOL17               | , VOL18 | , VOL19 |  |
| VOL20 , VOL21                                             | , VOL22               | , VOL23 | , VOL24 |  |
| VOL23 , VOL24                                             | , VOL25               | , VOL26 | , VOL27 |  |
| VOL28 , VOL29                                             | , VOL30               | , VOL31 | , VOL32 |  |

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

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

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| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|-------------|-------------|------------|------------|-------------|---------|
| 459503.27   | 3782889.01  | 0.02137    | (15122216) | 459388.10   |         |
| 3783065.74  | 0.02350     | (15122216) |            |             |         |
| 459382.29   | 3783016.73  | 0.02299    | (15122216) | 459350.12   |         |
| 3783155.49  | 0.02423     | (15122216) |            |             |         |
| 459320.33   | 3783264.86  | 0.02678    | (11121216) | 463904.58   |         |
| 3786591.83  | 0.05325     | (11111816) |            |             |         |
| 466077.15   | 3784031.33  | 0.02765    | (16012716) | 466200.85   |         |
| 3784253.98  | 0.02577     | (16012716) |            |             |         |
| 465960.20   | 3784644.19  | 0.02660    | (16012716) | 466195.23   |         |
| 3784596.96  | 0.02547     | (16012716) |            |             |         |
| 462710.50   | 3782876.40  | 0.03168    | (16122616) | 462069.84   |         |

3783383.52 0.03685 (16122616)  
462277.17 3783298.31 0.03632 (16122616) 461797.05  
3783468.72 0.03960 (11100516)  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:15:37

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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                   | DATE       | AVERAGE CONC | RECEPTOR        | NETWORK     |
|----------------------------|------------|--------------|-----------------|-------------|
| ZELEV, ZHILL, ZFLAG)       | (YYMMDDHH) | GRID-ID      | (XR, YR,        |             |
| OF TYPE                    |            |              |                 |             |
| ALL HIGH 1ST HIGH VALUE IS | 0.57878    | ON 16121216: | AT ( 462814.44, | 3786754.18, |
| 633.19, 1734.00, 2.00)     | DC         |              |                 |             |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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                   | DATE       | AVERAGE CONC | RECEPTOR        | NETWORK     |
|----------------------------|------------|--------------|-----------------|-------------|
| ZELEV, ZHILL, ZFLAG)       | (YYMMDDHH) | GRID-ID      | (XR, YR,        |             |
| OF TYPE                    |            |              |                 |             |
| ALL HIGH 1ST HIGH VALUE IS | 0.28691    | ON 16010616: | AT ( 462604.90, | 3786782.62, |
| 635.54, 1734.00, 2.00)     | DC         |              |                 |             |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*



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09:15:37

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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 7 Warning Message(s)  
A Total of 838 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 40 Calm Hours Identified  
  
A Total of 798 Missing Hours Identified ( 1.82 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1800 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1800 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W438 8800 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12010216  
MX W438 11536 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12042516  
MX W420 16779 METQA: Wind Speed Out-of-Range. KURDAT = 12113003  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 15010101  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 1 year gap

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

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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/16/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Cons NOX\15585 Cons
NOX.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 1
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID NOX
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Cons NOX.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870

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|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL29 | VOLUME | 460639.798 | 3787451.816 | 679.140 |
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |

|          |        |        |            |             |         |
|----------|--------|--------|------------|-------------|---------|
| LOCATION | VOL95  | VOLUME | 461397.891 | 3784711.595 | 626.590 |
| LOCATION | VOL96  | VOLUME | 461396.335 | 3784797.151 | 630.160 |
| LOCATION | VOL97  | VOLUME | 461483.447 | 3784714.706 | 622.870 |
| LOCATION | VOL98  | VOLUME | 461481.891 | 3784795.596 | 626.210 |
| LOCATION | VOL99  | VOLUME | 461486.558 | 3784879.596 | 631.090 |
| LOCATION | VOL100 | VOLUME | 461569.003 | 3784776.929 | 621.370 |
| LOCATION | VOL101 | VOLUME | 461643.670 | 3784787.818 | 622.790 |
| LOCATION | VOL102 | VOLUME | 461562.781 | 3784825.151 | 625.070 |

\*\* Source Parameters \*\*

|          |       |              |       |        |       |
|----------|-------|--------------|-------|--------|-------|
| SRCPARAM | VOL1  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL2  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL3  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL4  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL5  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL6  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL7  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL8  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL9  | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL10 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL11 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL12 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL13 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL14 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL15 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL16 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL17 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL18 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL19 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL20 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL21 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL22 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL23 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL24 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL25 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL26 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL27 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL28 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL29 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL30 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL31 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL32 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL33 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL34 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL35 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL36 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL37 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL38 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL39 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL40 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL41 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL42 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL43 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL44 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL45 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL46 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL47 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL48 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL49 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL50 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL51 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL52 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL53 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL54 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL55 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL56 | 0.0028679446 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL57 | 0.0028679446 | 3.490 | 19.572 | 3.250 |

|          |        |              |       |        |       |
|----------|--------|--------------|-------|--------|-------|
| SRCPARAM | VOL58  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL59  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL60  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL61  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL62  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL63  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL64  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL65  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL66  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL67  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL68  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL69  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL70  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL71  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL72  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL73  | 0.0006970194 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL74  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL75  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL76  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL77  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL78  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL79  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL80  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL81  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL82  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL83  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL84  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL85  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL86  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL87  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL88  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL89  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL90  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL91  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL92  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL93  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL94  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL95  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL96  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL97  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL98  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL99  | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL100 | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL101 | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL102 | 0.0022253797 | 3.490 | 19.572 | 3.250 |
| URBANSRC | ALL    |              |       |        |       |

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

\*\* Variable Emission Scenario: "Scenario 1"

\*\* 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 |
|----------|------|-------|-----|-----|-----|-----|-----|-----|

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|    |           |       |       |     |     |     |     |     |     |
|----|-----------|-------|-------|-----|-----|-----|-----|-----|-----|
| ** | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL24 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
| ** | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL24 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL25 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL25 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| ** | EMISFACT  | VOL26 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL26 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL27 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL27 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL28 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL28 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| ** | EMISFACT  | VOL28 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL28 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL28 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL28 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL28 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|    |           |       |       |     |     |     |     |     |     |
|----|-----------|-------|-------|-----|-----|-----|-----|-----|-----|
| ** | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL90 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
| ** | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL90 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
|    | EMISFACT  | VOL91 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL91 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| ** | EMISFACT  | VOL92 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL92 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| ** | EMISFACT  | VOL93 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | Saturday: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | Sunday:   |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ** | EMISFACT  | VOL93 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | WeekDays: |       |       |     |     |     |     |     |     |
|    | EMISFACT  | VOL94 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL94 | HRDOW | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| ** | EMISFACT  | VOL94 | HRDOW | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
|    | EMISFACT  | VOL94 | HRDOW | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |     |

[illegible]

```

EMISFACT VOL98          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL99          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL99          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL100         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL100         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL101         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL101         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL102         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL102         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
SO FINISHED

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**
*****

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\*\* AERMOD Receptor Pathway

\*\*\*\*\*  
\*\*  
\*\*  
RE STARTING  
INCLUDED "15585 Cons NOX.rou"  
RE FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*  
\*\*  
\*\*

ME STARTING  
SURFFILE FONT\_V9\_ADJU\FONT\_v9.SFC  
PROFFILE FONT\_V9\_ADJU\FONT\_v9.PFL  
SURFDATA 3102 2011  
UAIRDATA 3190 2011  
SITEDATA 99999 2011  
PROFBASE 367.0 METERS  
ME FINISHED  
\*\*

\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "15585 CONS NOX.AD\01H1GALL.PLT" 31  
SUMMFILE "15585 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 1800 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1800 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

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- - - - -

**\*\* 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 102 Source(s),  
for Total of 1 Urban Area(s):
- Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model 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: 102 Source(s); 1 Source Group(s); and 94 Receptor(s)**

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 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) = 367.00 ; 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 = 3.6 MB of RAM.**

**\*\*Input Runstream File:**

aermod.inp

**\*\*Output Print File:**

aermod.out

**\*\*Detailed Error/Message File: 15585 Cons**

NOX.err

\*\*File for Summary of Results: 15585 Cons

NOX.sum

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SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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

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

| SOURCE   | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT.    |
|----------|--------|-------------|----------|-----------|----------|----------|----------|----------|
| SOURCE   | URBAN  | EMISSION    | RATE     | AIRCRAFT  | ELEV.    | HEIGHT   | SY       | SZ       |
| ID       | PART.  | (GRAMS/SEC) |          | X         |          |          |          |          |
| (METERS) | SCALAR | VARY        |          | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|          | CATS.  | BY          |          |           |          |          |          |          |
| VOL1     | 0      | 0.28679E-02 | 461693.7 | 3786276.5 | 643.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL2     | 0      | 0.28679E-02 | 461646.2 | 3786333.2 | 642.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL3     | 0      | 0.28679E-02 | 461591.3 | 3786386.2 | 647.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL4     | 0      | 0.28679E-02 | 461541.9 | 3786437.5 | 649.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL5     | 0      | 0.28679E-02 | 461499.8 | 3786483.2 | 650.3    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL6     | 0      | 0.28679E-02 | 461461.4 | 3786530.8 | 651.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL7     | 0      | 0.28679E-02 | 461408.3 | 3786578.3 | 653.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL8     | 0      | 0.28679E-02 | 461452.2 | 3786636.9 | 648.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL9     | 0      | 0.28679E-02 | 461512.6 | 3786686.3 | 645.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL10    | 0      | 0.28679E-02 | 461573.0 | 3786730.2 | 644.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL11    | 0      | 0.28679E-02 | 461366.2 | 3786625.9 | 655.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL12    | 0      | 0.28679E-02 | 461289.4 | 3786679.0 | 662.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL13    | 0      | 0.28679E-02 | 461373.6 | 3786706.4 | 654.4    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL14    | 0      | 0.28679E-02 | 461441.3 | 3786713.7 | 647.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL15    | 0      | 0.28679E-02 | 461234.5 | 3786728.4 | 667.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL16    | 0      | 0.28679E-02 | 461199.7 | 3786774.1 | 667.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL17    | 0      | 0.28679E-02 | 461152.2 | 3786821.7 | 666.4    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL18    | 0      | 0.28679E-02 | 461086.3 | 3786863.8 | 668.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL19    | 0      | 0.28679E-02 | 461038.7 | 3786904.0 | 673.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL20    | 0      | 0.28679E-02 | 460978.4 | 3786938.8 | 680.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL21    | 0      | 0.28679E-02 | 460927.1 | 3786993.7 | 681.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL22    | 0      | 0.28679E-02 | 460877.7 | 3787050.4 | 684.4    | 3.49     | 19.57    | 3.25     |

|       |       |   |             |          |           |       |      |       |      |
|-------|-------|---|-------------|----------|-----------|-------|------|-------|------|
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL23 |       | 0 | 0.28679E-02 | 460837.5 | 3787107.1 | 683.9 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL24 |       | 0 | 0.28679E-02 | 460804.5 | 3787160.2 | 681.6 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL25 |       | 0 | 0.28679E-02 | 460749.5 | 3787211.2 | 680.3 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL26 |       | 0 | 0.28679E-02 | 460704.6 | 3787274.7 | 677.7 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL27 |       | 0 | 0.28679E-02 | 460655.7 | 3787332.8 | 679.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL28 |       | 0 | 0.28679E-02 | 460593.5 | 3787398.9 | 683.9 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL29 |       | 0 | 0.28679E-02 | 460639.8 | 3787451.8 | 679.1 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL30 |       | 0 | 0.28679E-02 | 460683.4 | 3787401.6 | 675.8 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL31 |       | 0 | 0.28679E-02 | 460741.6 | 3787356.6 | 670.8 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL32 |       | 0 | 0.28679E-02 | 460790.5 | 3787281.3 | 670.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL33 |       | 0 | 0.28679E-02 | 460875.1 | 3787289.2 | 670.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL34 |       | 0 | 0.28679E-02 | 460929.3 | 3787227.1 | 670.7 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL35 |       | 0 | 0.28679E-02 | 460840.7 | 3787209.9 | 677.6 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL36 |       | 0 | 0.28679E-02 | 460884.4 | 3787165.0 | 678.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL37 |       | 0 | 0.28679E-02 | 460967.6 | 3787141.2 | 672.8 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL38 |       | 0 | 0.28679E-02 | 460921.4 | 3787088.3 | 678.9 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL39 |       | 0 | 0.28679E-02 | 460967.6 | 3787063.2 | 676.3 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL40 |       | 0 | 0.28679E-02 | 461048.3 | 3787114.7 | 668.5 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |

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

| *** VOLUME SOURCE DATA *** |        |        |             |          |           |          |          |          |       |
|----------------------------|--------|--------|-------------|----------|-----------|----------|----------|----------|-------|
|                            |        | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT. |
| SOURCE                     |        | URBAN  | EMISSION    | RATE     |           | AIRCRAFT |          |          |       |
| SOURCE                     |        | PART.  | (GRAMS/SEC) | X        | Y         | ELEV.    | HEIGHT   | SY       | SZ    |
| ID                         | SCALAR | VARY   |             | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) |       |
| (METERS)                   |        | CATS.  | BY          |          |           |          |          |          |       |
| -----                      |        |        |             |          |           |          |          |          |       |
| -----                      |        |        |             |          |           |          |          |          |       |
| VOL41                      |        | 0      | 0.28679E-02 | 461007.3 | 3786998.4 | 675.5    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL42                      |        | 0      | 0.28679E-02 | 461052.2 | 3787052.6 | 669.8    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL43                      |        | 0      | 0.28679E-02 | 461134.2 | 3787056.6 | 662.0    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL44                      |        | 0      | 0.28679E-02 | 461082.6 | 3786975.9 | 671.8    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL45                      |        | 0      | 0.28679E-02 | 461121.0 | 3786917.8 | 665.9    | 3.49     | 19.57    | 3.25  |



|       |       |   |             |          |           |       |      |       |      |
|-------|-------|---|-------------|----------|-----------|-------|------|-------|------|
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL46 |       | 0 | 0.28679E-02 | 461167.2 | 3786986.5 | 660.1 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL47 |       | 0 | 0.28679E-02 | 461253.2 | 3786983.9 | 656.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL48 |       | 0 | 0.28679E-02 | 461208.2 | 3786903.2 | 658.5 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL49 |       | 0 | 0.28679E-02 | 461234.7 | 3786831.8 | 660.3 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL50 |       | 0 | 0.28679E-02 | 461291.5 | 3786905.9 | 655.3 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL51 |       | 0 | 0.28679E-02 | 461374.8 | 3786887.4 | 652.2 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL52 |       | 0 | 0.28679E-02 | 461317.9 | 3786823.9 | 656.1 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL53 |       | 0 | 0.28679E-02 | 461287.5 | 3786757.8 | 660.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL54 |       | 0 | 0.28679E-02 | 461373.5 | 3786786.9 | 653.5 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL55 |       | 0 | 0.28679E-02 | 461455.4 | 3786801.4 | 648.5 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL56 |       | 0 | 0.28679E-02 | 461385.4 | 3786838.4 | 651.8 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL57 |       | 0 | 0.28679E-02 | 461529.4 | 3786768.4 | 645.1 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL58 |       | 0 | 0.69702E-03 | 462577.2 | 3786719.5 | 633.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL59 |       | 0 | 0.69702E-03 | 462660.5 | 3786693.7 | 632.6 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL60 |       | 0 | 0.69702E-03 | 462744.4 | 3786674.3 | 630.9 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL61 |       | 0 | 0.69702E-03 | 462828.9 | 3786650.9 | 628.3 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL62 |       | 0 | 0.69702E-03 | 462868.8 | 3786625.6 | 626.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL63 |       | 0 | 0.69702E-03 | 462848.2 | 3786541.7 | 623.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL64 |       | 0 | 0.69702E-03 | 462835.3 | 3786455.5 | 622.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL65 |       | 0 | 0.69702E-03 | 462621.2 | 3786659.7 | 631.7 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL66 |       | 0 | 0.69702E-03 | 462660.5 | 3786609.8 | 629.1 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL67 |       | 0 | 0.69702E-03 | 462684.6 | 3786547.6 | 627.2 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL68 |       | 0 | 0.69702E-03 | 462745.6 | 3786589.8 | 627.1 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL69 |       | 0 | 0.69702E-03 | 462807.2 | 3786567.0 | 625.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL70 |       | 0 | 0.69702E-03 | 462716.8 | 3786469.0 | 624.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL71 |       | 0 | 0.69702E-03 | 462751.4 | 3786439.1 | 622.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL72 |       | 0 | 0.69702E-03 | 462835.3 | 3786419.7 | 622.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL73 |       | 0 | 0.69702E-03 | 462764.4 | 3786515.3 | 623.5 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL74 |       | 0 | 0.22254E-02 | 461061.9 | 3784936.7 | 654.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL75 |       | 0 | 0.22254E-02 | 461059.8 | 3784850.6 | 644.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL76 |       | 0 | 0.22254E-02 | 461057.6 | 3784762.3 | 642.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL77 |       | 0 | 0.22254E-02 | 461141.6 | 3784805.4 | 641.6 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL78 |       | 0 | 0.22254E-02 | 461139.5 | 3784721.4 | 639.0 | 3.49 | 19.57 | 3.25 |

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YES   HRDOW      NO
VOL79      0    0.22254E-02  461225.6  3784805.4   636.6    3.49    19.57    3.25
YES   HRDOW      NO
VOL80      0    0.22254E-02  461225.6  3784723.6   634.0    3.49    19.57    3.25
YES   HRDOW      NO
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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*** MODELOPTs:      RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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| *** VOLUME SOURCE DATA *** |       |             |             |          |           |       |          |          |          |
|----------------------------|-------|-------------|-------------|----------|-----------|-------|----------|----------|----------|
| SOURCE                     |       | NUMBER      | EMISSION    | RATE     | BASE      |       | RELEASE  | INIT.    | INIT.    |
| SOURCE                     |       | URBAN       | EMISSION    | RATE     | AIRCRAFT  |       | HEIGHT   | SY       | SZ       |
| ID                         |       | PART.       | (GRAMS/SEC) |          | X         | Y     | (METERS) | (METERS) | (METERS) |
| (METERS)                   |       | SCALAR VARY | BY          |          |           |       |          |          |          |
|                            |       | CATS.       |             |          |           |       |          |          |          |
| -----                      |       |             |             |          |           |       |          |          |          |
| -----                      |       |             |             |          |           |       |          |          |          |
| VOL81                      |       | 0           | 0.22254E-02 | 461223.7 | 3784635.4 | 631.4 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL82                      |       | 0           | 0.22254E-02 | 461156.8 | 3784658.7 | 636.7 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL83                      |       | 0           | 0.22254E-02 | 461312.3 | 3784885.8 | 641.4 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL84                      |       | 0           | 0.22254E-02 | 461310.8 | 3784801.8 | 632.5 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL85                      |       | 0           | 0.22254E-02 | 461312.3 | 3784714.7 | 629.8 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL86                      |       | 0           | 0.22254E-02 | 461309.2 | 3784630.7 | 628.2 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL87                      |       | 0           | 0.22254E-02 | 461284.3 | 3784548.3 | 629.4 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL88                      |       | 0           | 0.22254E-02 | 461369.9 | 3784543.6 | 624.3 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL89                      |       | 0           | 0.22254E-02 | 461289.0 | 3784462.7 | 624.5 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL90                      |       | 0           | 0.22254E-02 | 461225.2 | 3784422.3 | 627.2 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL91                      |       | 0           | 0.22254E-02 | 461371.4 | 3784458.0 | 621.3 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL92                      |       | 0           | 0.22254E-02 | 461270.3 | 3784338.3 | 620.3 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL93                      |       | 0           | 0.22254E-02 | 461310.8 | 3784375.6 | 619.3 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL94                      |       | 0           | 0.22254E-02 | 461396.3 | 3784627.6 | 624.3 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL95                      |       | 0           | 0.22254E-02 | 461397.9 | 3784711.6 | 626.6 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL96                      |       | 0           | 0.22254E-02 | 461396.3 | 3784797.2 | 630.2 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL97                      |       | 0           | 0.22254E-02 | 461483.4 | 3784714.7 | 622.9 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL98                      |       | 0           | 0.22254E-02 | 461481.9 | 3784795.6 | 626.2 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL99                      |       | 0           | 0.22254E-02 | 461486.6 | 3784879.6 | 631.1 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL100                     |       | 0           | 0.22254E-02 | 461569.0 | 3784776.9 | 621.4 | 3.49     | 19.57    | 3.25     |
| YES                        | HRDOW |             | NO          |          |           |       |          |          |          |
| VOL101                     |       | 0           | 0.22254E-02 | 461643.7 | 3784787.8 | 622.8 | 3.49     | 19.57    | 3.25     |

YES HRDOW NO  
VOL102 0 0.22254E-02 461562.8 3784825.2 625.1 3.49 19.57 3.25  
YES HRDOW NO  
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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* 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 , VOL5 , VOL6 ,          |
| VOL7        | , VOL8 ,                                           |
|             | VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 ,     |
|             | VOL15 , VOL16 ,                                    |
|             | VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 ,    |
|             | VOL23 , VOL24 ,                                    |
|             | VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 ,    |
|             | VOL31 , VOL32 ,                                    |
|             | VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 ,    |
|             | VOL39 , VOL40 ,                                    |
|             | VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,    |
|             | VOL47 , VOL48 ,                                    |
|             | VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,    |
|             | VOL55 , VOL56 ,                                    |
|             | VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,    |
|             | VOL63 , VOL64 ,                                    |
|             | VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,    |
|             | VOL71 , VOL72 ,                                    |
|             | VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,    |
|             | VOL79 , VOL80 ,                                    |
|             | VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,    |
|             | VOL87 , VOL88 ,                                    |
|             | VOL89 , VOL90 , VOL91 , VOL92 , VOL93 , VOL94 ,    |
|             | VOL95 , VOL96 ,                                    |
|             | VOL97 , VOL98 , VOL99 , VOL100 , VOL101 , VOL102 , |

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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE IDs

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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09:22:43

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                                PAGE 11
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL5 ; 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 |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL6 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL7 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL8 ; 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 |  |



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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                ***
                                09:22:43

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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 = VOL9 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                09:22:43

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                                PAGE 16
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL10 ; 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

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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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09:22:43

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                                PAGE 17
*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL11 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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09:22:43

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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 = VOL12 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
  SCALAR HOUR SCALAR HOUR SCALAR

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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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL13 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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

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

SOURCE ID = VOL14 ; 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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\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL15 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
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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 = VOL16 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL17 ; 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

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43
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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) *
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SOURCE ID = VOL18 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43
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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) *
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SOURCE ID = VOL19 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL20 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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) *
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SOURCE ID = VOL21 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 = VOL22 ; 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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SP\15585 Ops H \*\*\* 04/16/24



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

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

SOURCE ID = VOL23 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

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

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

SOURCE ID = VOL24 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL25 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
```

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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 = VOL26 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 09:22:43

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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 = VOL27 ; SOURCE TYPE = VOLUME :

| HOUR                   | SCALAR    | HOUR   | SCALAR    | HOUR   | SCALAR    | HOUR   | SCALAR    | HOUR   | SCALAR    | HOUR   | SCALAR |
|------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|--------|
| SCALAR                 | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR      | SCALAR | HOUR   |
| 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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 09:22:43

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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 = VOL28 ; SOURCE TYPE = VOLUME :

| HOUR                  | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR                | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
| DAY OF WEEK = WEEKDAY |        |        |        |        |        |        |        |        |        |        |        |

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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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***
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09:22:43

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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) *

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SOURCE ID = VOL29      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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*** MODELOPTs:  RegDFault  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = VOL30 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL31 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL32 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL33 ; 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 |           |    |           |    |           |    |

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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL34 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                ***
                                09:22:43

                                PAGE 41
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL35 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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 = VOL36 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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 = VOL37 ; SOURCE TYPE = VOLUME :

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

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 09:22:43

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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 = VOL38      |                | ; SOURCE TYPE = VOLUME |                |                |                |                |                |                |                |                |                |
|------------------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR |
| DAY OF WEEK = WEEKDAY  |                |                        |                |                |                |                |                |                |                |                |                |
| 1 .0000E+00            | 2 .0000E+00    | 3 .0000E+00            | 4 .0000E+00    | 5 .0000E+00    | 6              | 7 .0000E+00    | 8 .0000E+00    | 9 .1000E+01    | 10 .1000E+01   | 11 .1000E+01   | 12 .1000E+01   |
| 13 .1000E+01           | 14             | 15 .1000E+01           | 16 .1000E+01   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 23 .0000E+00   | 24 .0000E+00   |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*

\*\*\* 09:22:43

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :  

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | 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 |
| .1000E+01 | 12        | .1000E+01 | 13        | .1000E+01 | 14        | .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |
| .1000E+01 | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| .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 |
| .0000E+00 | 12        | .0000E+00 | 13        | .0000E+00 | 14        | .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |
| .0000E+00 | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| .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 |
| .0000E+00 | 12        | .0000E+00 | 13        | .0000E+00 | 14        | .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |
| .0000E+00 | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| .0000E+00 | 22        | .0000E+00 | 23        | .0000E+00 | 24        | .0000E+00 |           |           |           |           |

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 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 09:22:43

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :  

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | 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 |
| .1000E+01 | 12        | .1000E+01 | 13        | .1000E+01 | 14        | .1000E+01 | 15        | .1000E+01 | 16        | .1000E+01 |
| .1000E+01 | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| .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 |
| .0000E+00 | 12        | .0000E+00 | 13        | .0000E+00 | 14        | .0000E+00 | 15        | .0000E+00 | 16        | .0000E+00 |
| .0000E+00 | 17        | .0000E+00 | 18        | .0000E+00 | 19        | .0000E+00 | 20        | .0000E+00 | 21        | .0000E+00 |
| .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 |           |   |           |   |           |   |

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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) \*

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SOURCE ID = VOL41 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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) \*

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SOURCE ID = VOL42 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:22:43
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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 = VOL43      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:22:43
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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 = VOL44      ; SOURCE TYPE = VOLUME      :
HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
                                DAY OF WEEK = WEEKDAY
```

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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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL45 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL46 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL47 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL48 ; 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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\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL49 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL50 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL51 ; 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



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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL52 ; 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

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DAY OF WEEK = SUNDAY

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 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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SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL53 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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 = VOL54 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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 = VOL55 ; 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 |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL56 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL57 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL58 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL59 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL60 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL61 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
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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 = VOL62          ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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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) *
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```
SOURCE ID = VOL63          ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL64 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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09:22:43

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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 = VOL65 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL66 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL67 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 09:22:43
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                                PAGE 74
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL68 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 09:22:43
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                                PAGE 75
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL69 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
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09:22:43

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                                PAGE 76
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL70 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
***
09:22:43

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                                PAGE 77
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL71 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 09:22:43

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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 = VOL72 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL73 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL74 ; 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 |

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:22:43
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                                PAGE 81
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL75      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      09:22:43
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                                PAGE 82
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL76      ; 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
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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
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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL77 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL78 ; 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 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 = VOL79 ; 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 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43



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

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

SOURCE ID = VOL80 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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09:22:43

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

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

SOURCE ID = VOL81 ; 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 |  |

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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) \*

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SOURCE ID = VOL82 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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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) \*

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SOURCE ID = VOL83 ; 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

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43

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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 = VOL84 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43

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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 = VOL85 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL86 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 09:22:43
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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 = VOL87 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 = VOL88 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL89 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL90 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 = VOL91 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 = VOL92 ; 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

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                                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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                PAGE 99
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL93 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                09:22:43

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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 = VOL94 ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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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) *

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SOURCE ID = VOL95      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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*** MODELOPTs:   RegDFault  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = VOL96 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL97 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 = VOL98 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 = VOL99 ; 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 |           |    |           |    |           |    |

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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
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09:22:43

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                                PAGE 106
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL100 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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09:22:43

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                                PAGE 107
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL101 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 09:22:43

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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 = VOL102 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 09:22:43

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PAGE 109
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

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|                                             |                                             |
|---------------------------------------------|---------------------------------------------|
| ( 463154.3, 3786819.6, 631.4, 1734.0, 2.0); | ( 463167.5, 3786865.5, 633.6, 1734.0, 2.0); |
| ( 463147.6, 3786873.2, 634.1, 1734.0, 2.0); | ( 463129.9, 3786877.4, 634.4, 1734.0, 2.0); |
| ( 463110.0, 3786886.9, 635.4, 1734.0, 2.0); | ( 463059.0, 3786966.9, 641.4, 1734.0, 2.0); |
| ( 463074.9, 3787087.9, 646.7, 1734.0, 2.0); | ( 463102.5, 3787076.0, 645.0, 1734.0, 2.0); |
| ( 462919.9, 3787058.3, 650.6, 1734.0, 2.0); | ( 463042.0, 3787098.7, 649.3, 1734.0, 2.0); |
| ( 462998.1, 3787106.0, 651.7, 1734.0, 2.0); | ( 462944.0, 3787123.4, 653.8, 1734.0, 2.0); |
| ( 462850.6, 3787079.7, 652.9, 1734.0, 2.0); | ( 462807.5, 3787091.0, 653.6, 1734.0, 2.0); |
| ( 462821.9, 3787159.9, 658.2, 1734.0, 2.0); | ( 462755.2, 3787105.3, 654.6, 1734.0, 2.0); |
| ( 462743.8, 3787181.3, 659.7, 1734.0, 2.0); | ( 462870.3, 3787147.1, 657.4, 1734.0, 2.0); |
| ( 462890.0, 3787138.7, 656.5, 1734.0, 2.0); | ( 462725.4, 3787114.5, 655.2, 1734.0, 2.0); |
| ( 462685.8, 3787125.8, 655.9, 1734.0, 2.0); | ( 462656.2, 3787132.7, 656.5, 1734.0, 2.0); |
| ( 462632.9, 3787123.9, 655.6, 1734.0, 2.0); | ( 462595.9, 3787152.0, 658.4, 1734.0, 2.0); |
| ( 462571.7, 3787160.3, 658.8, 1734.0, 2.0); | ( 462473.7, 3787233.0, 657.1, 1734.0, 2.0); |
| ( 462534.0, 3787244.6, 659.9, 1734.0, 2.0); | ( 462400.1, 3787275.4, 659.0, 1734.0, 2.0); |
| ( 462229.2, 3787434.2, 674.5, 1734.0, 2.0); | ( 462257.0, 3787342.4, 668.1, 1734.0, 2.0); |
| ( 462128.4, 3787527.6, 684.6, 1734.0, 2.0); | ( 462183.2, 3787452.4, 675.8, 1734.0, 2.0); |
| ( 462022.5, 3787623.1, 687.6, 1734.0, 2.0); | ( 461918.3, 3787709.0, 694.2, 1734.0, 2.0); |
| ( 462038.5, 3787667.1, 695.0, 1734.0, 2.0); | ( 461424.9, 3788158.1, 731.4, 1734.0, 2.0); |
| ( 461926.8, 3788065.0, 727.1, 1734.0, 2.0); | ( 461937.8, 3787798.6, 702.8, 1734.0, 2.0); |
| ( 461956.2, 3787956.4, 718.2, 1734.0, 2.0); | ( 461303.4, 3788188.5, 726.6, 1734.0, 2.0); |
| ( 461132.5, 3788399.4, 744.9, 1734.0, 2.0); | ( 461058.7, 3788731.5, 757.8, 1734.0, 2.0); |
| ( 460943.7, 3788817.1, 758.9, 1734.0, 2.0); | ( 457324.4, 3790478.1, 770.2, 1734.0, 2.0); |
| ( 457715.3, 3790467.0, 770.2, 1734.0, 2.0); | ( 457385.4, 3790493.9, 772.7, 1734.0, 2.0); |
| ( 457752.2, 3790534.9, 771.1, 1734.0, 2.0); | ( 458383.4, 3790238.2, 751.7, 1734.0, 2.0); |
| ( 463178.4, 3786251.1, 613.0, 1734.0, 2.0); | ( 462814.4, 3786754.2, 633.2, 1734.0, 2.0); |
| ( 462674.0, 3786877.7, 639.7, 1734.0, 2.0); | ( 462604.9, 3786782.6, 635.5, 1734.0, 2.0); |
| ( 462768.8, 3786780.7, 634.5, 1734.0, 2.0); | ( 461416.7, 3783609.8, 589.4, 1734.0, 2.0); |
| ( 461655.6, 3783762.7, 593.9, 1734.0, 2.0); | ( 461824.6, 3783749.2, 599.8, 1734.0, 2.0); |
| ( 461846.6, 3783749.2, 600.8, 1734.0, 2.0); | ( 461939.4, 3783743.2, 615.2, 1734.0, 2.0); |
| ( 462019.9, 3783739.8, 613.5, 1734.0, 2.0); | ( 462121.1, 3783735.6, 606.0, 1734.0, 2.0); |
| ( 462214.8, 3783729.3, 610.5, 1734.0, 2.0); | ( 462334.6, 3783705.5, 621.8, 1734.0, 2.0); |
| ( 461658.1, 3783690.3, 600.5, 1734.0, 2.0); | ( 461041.9, 3783495.8, 601.3, 1734.0, 2.0); |
| ( 461249.5, 3783484.0, 594.5, 1734.0, 2.0); | ( 461451.2, 3783502.2, 587.5, 1734.0, 2.0); |

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                ***
***                                09:22:43

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( 462710.5, 3782876.4, 547.6, 1734.0, 2.0); ( 462069.8, 3783383.5, 571.2, 1734.0, 2.0);  
( 462277.2, 3783298.3, 561.0, 1734.0, 2.0); ( 461797.0, 3783468.7, 575.6, 1734.0, 2.0);

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
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[illegible]

[illegible]



|      |     |       |     |    |       |       |        |        |       |      |       |      |      |      |      |
|------|-----|-------|-----|----|-------|-------|--------|--------|-------|------|-------|------|------|------|------|
| 11   | 01  | 01    | 1   | 13 | 132.6 | 0.214 | 1.733  | 0.009  | 1377. | 243. | -6.5  | 0.25 | 2.82 | 0.21 | 1.30 |
| 147. | 9.1 | 284.2 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 14 | 147.0 | 0.216 | 1.818  | 0.009  | 1431. | 242. | -6.0  | 0.25 | 2.82 | 0.23 | 1.30 |
| 219. | 9.1 | 284.9 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 15 | 104.0 | 0.208 | 1.633  | 0.009  | 1468. | 228. | -7.6  | 0.25 | 2.82 | 0.26 | 1.30 |
| 126. | 9.1 | 285.4 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 16 | 26.4  | 0.140 | 1.037  | 0.009  | 1477. | 127. | -9.1  | 0.25 | 2.82 | 0.35 | 0.90 |
| 151. | 9.1 | 284.9 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 17 | -9.0  | 0.137 | -9.000 | -9.000 | -999. | 121. | 24.9  | 0.25 | 2.82 | 0.63 | 1.30 |
| 69.  | 9.1 | 283.1 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 18 | -33.4 | 0.342 | -9.000 | -9.000 | -999. | 481. | 129.0 | 0.25 | 2.82 | 1.00 | 3.10 |
| 81.  | 9.1 | 281.4 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 19 | -33.6 | 0.342 | -9.000 | -9.000 | -999. | 481. | 128.9 | 0.25 | 2.82 | 1.00 | 3.10 |
| 51.  | 9.1 | 279.9 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 20 | -23.6 | 0.239 | -9.000 | -9.000 | -999. | 287. | 63.1  | 0.25 | 2.82 | 1.00 | 2.20 |
| 77.  | 9.1 | 278.8 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 21 | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205. | 41.2  | 0.25 | 2.82 | 1.00 | 1.80 |
| 53.  | 9.1 | 277.5 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 22 | -23.7 | 0.239 | -9.000 | -9.000 | -999. | 281. | 63.0  | 0.25 | 2.82 | 1.00 | 2.20 |
| 58.  | 9.1 | 277.5 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 23 | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205. | 41.2  | 0.25 | 2.82 | 1.00 | 1.80 |
| 64.  | 9.1 | 277.5 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |
| 11   | 01  | 01    | 1   | 24 | -4.5  | 0.094 | -9.000 | -9.000 | -999. | 74.  | 16.3  | 0.25 | 2.82 | 1.00 | 0.90 |
| 52.  | 9.1 | 277.0 | 5.5 |    |       |       |        |        |       |      |       |      |      |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 11 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 276.5   | 99.0   | -99.00 | -99.00 |
| 11 | 01 | 01 | 01 | 9.1    | 1 | 69.   | 1.80   | -999.0  | 99.0   | -99.00 | -99.00 |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 09:22:43

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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  | VOL5  |       |       |
| VOL6                 | VOL7  | VOL8  | VOL9  | VOL10 |
| VOL11                | VOL12 | VOL13 |       |       |
| VOL14                | VOL15 | VOL16 | VOL17 | VOL18 |
| VOL19                | VOL20 | VOL21 |       |       |
| VOL22                | VOL23 | VOL24 | VOL25 | VOL26 |
| VOL27                | VOL28 |       |       |       |

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

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

| X-COORD (M) | Y-COORD (M) | CONC       | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|-------------|-------------|------------|------------|-------------|---------|
| 463154.33   | 3786819.61  | 0.33236    | (16121216) | 463167.45   |         |
| 3786865.52  | 0.28641     | (16121216) |            |             |         |
| 463147.58   | 3786873.25  | 0.28323    | (16121216) | 463129.92   |         |
| 3786877.44  | 0.28246     | (16121216) |            |             |         |
| 463110.04   | 3786886.94  | 0.27877    | (16121216) | 463059.03   |         |
| 3786966.87  | 0.26606     | (16121216) |            |             |         |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 463074.93  | 3787087.88 | 0.27850    | (16121216) | 463102.53 |
| 3787075.96 | 0.27011    | (16121216) |            |           |
| 462919.92  | 3787058.29 | 0.31694    | (16121216) | 463042.03 |
| 3787098.70 | 0.28828    | (16121216) |            |           |
| 462998.09  | 3787105.99 | 0.30085    | (16121216) | 462943.99 |
| 3787123.43 | 0.31793    | (16121216) |            |           |
| 462850.58  | 3787079.71 | 0.34363    | (16121216) | 462807.52 |
| 3787090.97 | 0.36013    | (16121216) |            |           |
| 462821.88  | 3787159.87 | 0.35392    | (16121216) | 462755.22 |
| 3787105.29 | 0.37998    | (16121216) |            |           |
| 462743.77  | 3787181.31 | 0.37464    | (16121216) | 462870.28 |
| 3787147.15 | 0.34002    | (16121216) |            |           |
| 462889.99  | 3787138.70 | 0.33427    | (16121216) | 462725.43 |
| 3787114.51 | 0.39098    | (16121216) |            |           |
| 462685.82  | 3787125.77 | 0.40509    | (16121216) | 462656.17 |
| 3787132.72 | 0.41546    | (16121216) |            |           |
| 462632.89  | 3787123.90 | 0.42691    | (16121216) | 462595.92 |
| 3787152.05 | 0.43389    | (16121216) |            |           |
| 462571.70  | 3787160.31 | 0.44051    | (16121216) | 462473.70 |
| 3787233.03 | 0.44079    | (16121216) |            |           |
| 462534.01  | 3787244.58 | 0.41457    | (16121216) | 462400.07 |
| 3787275.41 | 0.43549    | (16121216) |            |           |
| 462229.16  | 3787434.24 | 0.39675    | (13121916) | 462256.97 |
| 3787342.44 | 0.42130    | (16121216) |            |           |
| 462128.43  | 3787527.59 | 0.41426    | (13121916) | 462183.16 |
| 3787452.38 | 0.39400    | (13121916) |            |           |
| 462022.45  | 3787623.08 | 0.39891    | (13121916) | 461918.34 |
| 3787709.00 | 0.47090    | (15122116) |            |           |
| 462038.54  | 3787667.10 | 0.40005    | (13121916) | 461424.87 |
| 3788158.12 | 0.42434    | (15122116) |            |           |
| 461926.79  | 3788065.01 | 0.42097    | (15122116) | 461937.75 |
| 3787798.61 | 0.45594    | (15122116) |            |           |
| 461956.17  | 3787956.45 | 0.43308    | (15122116) | 461303.41 |
| 3788188.53 | 0.39177    | (15122116) |            |           |
| 461132.48  | 3788399.44 | 0.22319    | (15122116) | 461058.72 |
| 3788731.50 | 0.20195    | (13031809) |            |           |
| 460943.68  | 3788817.15 | 0.21925    | (13031809) | 457324.43 |
| 3790478.09 | 0.08608    | (16121510) |            |           |
| 457715.29  | 3790466.96 | 0.10582    | (16121510) | 457385.37 |
| 3790493.92 | 0.09012    | (16121510) |            |           |
| 457752.21  | 3790534.94 | 0.10843    | (16121510) | 458383.39 |
| 3790238.21 | 0.11731    | (16121510) |            |           |
| 463178.40  | 3786251.10 | 0.38148    | (13111916) | 462814.44 |
| 3786754.18 | 0.66988    | (16121216) |            |           |
| 462674.03  | 3786877.67 | 0.39011    | (12121715) | 462604.90 |
| 3786782.62 | 0.59055    | (13112916) |            |           |
| 462768.77  | 3786780.67 | 0.52743    | (16121216) | 461416.67 |
| 3783609.80 | 0.32154    | (15021709) |            |           |
| 461655.59  | 3783762.73 | 0.24713    | (15021709) | 461824.61 |
| 3783749.17 | 0.20312    | (16101209) |            |           |
| 461846.64  | 3783749.17 | 0.20035    | (16101209) | 461939.41 |
| 3783743.24 | 0.19031    | (16101209) |            |           |
| 462019.90  | 3783739.85 | 0.18038    | (16101209) | 462121.14 |
| 3783735.61 | 0.16814    | (16101209) |            |           |
| 462214.76  | 3783729.26 | 0.15927    | (16101209) | 462334.64 |
| 3783705.54 | 0.14895    | (16101209) |            |           |
| 461658.13  | 3783690.29 | 0.24311    | (15021709) | 461041.92 |
| 3783495.78 | 0.20067    | (12021513) |            |           |
| 461249.49  | 3783484.05 | 0.26158    | (15021709) | 461451.20 |
| 3783502.23 | 0.29612    | (15021709) |            |           |
| 461567.30  | 3783209.63 | 0.24461    | (15021709) | 461502.80 |
| 3783145.13 | 0.24910    | (15021709) |            |           |
| 461612.45  | 3783185.00 | 0.23318    | (15021709) | 460924.52 |
| 3783393.96 | 0.17123    | (15120909) |            |           |
| 460848.29  | 3783334.15 | 0.16352    | (15120909) | 460765.02 |
| 3783264.37 | 0.15392    | (15120909) |            |           |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 460668.85  | 3783186.38 | 0.14237    | (15120909) | 460574.44 |
| 3783105.46 | 0.13123    | (15120909) |            |           |
| 460496.45  | 3783051.51 | 0.12207    | (15120909) | 460712.73 |
| 3783532.65 | 0.14659    | (15120909) |            |           |
| 460583.91  | 3783527.38 | 0.13062    | (15120909) | 460501.88 |
| 3783491.78 | 0.12092    | (15120909) |            |           |
| 460403.69  | 3783447.41 | 0.11065    | (11011209) | 460303.99 |
| 3783403.05 | 0.10747    | (11011209) |            |           |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* 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) |            |             |         |
| 459503.27   | 3782889.01  | 0.08693    | (16011409) | 459388.10   |         |
| 3783065.74  | 0.08602     | (16011409) |            |             |         |
| 459382.29   | 3783016.73  | 0.08641    | (16011409) | 459350.12   |         |
| 3783155.49  | 0.08912     | (11121211) |            |             |         |
| 459320.33   | 3783264.86  | 0.08998    | (11121211) | 463904.58   |         |
| 3786591.83  | 0.19124     | (12121715) |            |             |         |
| 466077.15   | 3784031.33  | 0.08403    | (15012809) | 466200.85   |         |
| 3784253.98  | 0.07701     | (13111210) |            |             |         |
| 465960.20   | 3784644.19  | 0.08349    | (13122709) | 466195.23   |         |
| 3784596.96  | 0.08107     | (13122709) |            |             |         |
| 462710.50   | 3782876.40  | 0.12134    | (11010309) | 462069.84   |         |
| 3783383.52  | 0.17110     | (16101209) |            |             |         |
| 462277.17   | 3783298.31  | 0.15246    | (16101209) | 461797.05   |         |
| 3783468.72  | 0.19031     | (11100512) |            |             |         |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 \*\*

DATE

| GROUP ID<br>ZELEV, ZHILL, ZFLAG) | AVERAGE CONC<br>OF TYPE | (YYMMDDHH) | RECEPTOR<br>(XR, YR, | NETWORK |
|----------------------------------|-------------------------|------------|----------------------|---------|
| -----                            |                         |            |                      |         |
| -----                            |                         |            |                      |         |

ALL HIGH 1ST HIGH VALUE IS 0.66988 ON 16121216: AT ( 462814.44, 3786754.18,  
633.19, 1734.00, 2.00) DC

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 09:22:43

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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 7 Warning Message(s)  
A Total of 838 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 40 Calm Hours Identified  
  
A Total of 798 Missing Hours Identified ( 1.82 Percent)

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

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

|         |       |                                                           |            |
|---------|-------|-----------------------------------------------------------|------------|
| ME W186 | 1800  | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50       |
| ME W187 | 1800  | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |            |
| MX W438 | 8800  | METQA: Convective Velocity Data Out-of-Range. KURDAT =    | 12010216   |
| MX W438 | 11536 | METQA: Convective Velocity Data Out-of-Range. KURDAT =    | 12042516   |
| MX W420 | 16779 | METQA: Wind Speed Out-of-Range. KURDAT =                  | 12113003   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: | 15010101   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: | 1 year gap |

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

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/16/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Cons PM10\15585 Cons
PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 24
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID PM_10
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Cons PM10.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870

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|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL29 | VOLUME | 460639.798 | 3787451.816 | 679.140 |
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |

|                         |           |              |            |             |         |
|-------------------------|-----------|--------------|------------|-------------|---------|
| LOCATION                | VOL95     | VOLUME       | 461397.891 | 3784711.595 | 626.590 |
| LOCATION                | VOL96     | VOLUME       | 461396.335 | 3784797.151 | 630.160 |
| LOCATION                | VOL97     | VOLUME       | 461483.447 | 3784714.706 | 622.870 |
| LOCATION                | VOL98     | VOLUME       | 461481.891 | 3784795.596 | 626.210 |
| LOCATION                | VOL99     | VOLUME       | 461486.558 | 3784879.596 | 631.090 |
| LOCATION                | VOL100    | VOLUME       | 461569.003 | 3784776.929 | 621.370 |
| LOCATION                | VOL101    | VOLUME       | 461643.670 | 3784787.818 | 622.790 |
| LOCATION                | VOL102    | VOLUME       | 461562.781 | 3784825.151 | 625.070 |
| LOCATION                | PAREA1    | AREAPOLY     | 460528.359 | 3787418.313 | 691.840 |
| ** DESCRSRC             | Subarea A |              |            |             |         |
| LOCATION                | PAREA2    | AREAPOLY     | 462517.880 | 3786759.792 | 633.000 |
| LOCATION                | PAREA3    | AREAPOLY     | 461036.403 | 3784972.428 | 658.950 |
| ** DESCRSRC             | Subarea C |              |            |             |         |
| ** Source Parameters ** |           |              |            |             |         |
| SRCPARAM                | VOL1      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL2      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL3      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL4      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL5      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL6      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL7      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL8      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL9      | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL10     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL11     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL12     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL13     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL14     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL15     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL16     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL17     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL18     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL19     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL20     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL21     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL22     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL23     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL24     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL25     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL26     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL27     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL28     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL29     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL30     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL31     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL32     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL33     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL34     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL35     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL36     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL37     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL38     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL39     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL40     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL41     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL42     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL43     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL44     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL45     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL46     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL47     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL48     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL49     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL50     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL51     | 0.0001476035 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL52     | 0.0001476035 | 3.490      | 19.572      | 3.250   |

|          |        |              |             |            |             |
|----------|--------|--------------|-------------|------------|-------------|
| SRCPARAM | VOL53  | 0.0001476035 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL54  | 0.0001476035 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL55  | 0.0001476035 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL56  | 0.0001476035 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL57  | 0.0001476035 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL58  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL59  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL60  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL61  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL62  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL63  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL64  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL65  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL66  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL67  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL68  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL69  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL70  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL71  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL72  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL73  | 0.0000358732 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL74  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL75  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL76  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL77  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL78  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL79  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL80  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL81  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL82  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL83  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL84  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL85  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL86  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL87  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL88  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL89  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL90  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL91  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL92  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL93  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL94  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL95  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL96  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL97  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL98  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL99  | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL100 | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL101 | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL102 | 0.0001145328 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | PAREA1 | 1.2872E-07   | 0.000       | 13         | 1.000       |
| AREAVERT | PAREA1 | 460528.359   | 3787418.313 | 460624.790 | 3787500.787 |
| AREAVERT | PAREA1 | 461630.970   | 3786735.684 | 461482.517 | 3786597.382 |
| AREAVERT | PAREA1 | 461748.971   | 3786277.638 | 461696.949 | 3786224.347 |
| AREAVERT | PAREA1 | 461284.580   | 3786637.985 | 461181.805 | 3786721.727 |
| AREAVERT | PAREA1 | 461147.547   | 3786769.943 | 461004.170 | 3786876.524 |
| AREAVERT | PAREA1 | 460933.115   | 3786922.202 | 460845.566 | 3787018.633 |
| AREAVERT | PAREA1 | 460533.435   | 3787417.045 |            |             |
| SRCPARAM | PAREA2 | 1.3909E-07   | 0.000       | 5          | 1.000       |
| AREAVERT | PAREA2 | 462517.880   | 3786759.792 | 462912.486 | 3786648.135 |
| AREAVERT | PAREA2 | 462866.808   | 3786401.983 | 462845.238 | 3786395.639 |
| AREAVERT | PAREA2 | 462727.237   | 3786398.176 |            |             |
| SRCPARAM | PAREA3 | 1.7087E-07   | 0.000       | 42         | 1.000       |
| AREAVERT | PAREA3 | 461036.403   | 3784972.428 | 461119.453 | 3784972.428 |
| AREAVERT | PAREA3 | 461095.724   | 3784915.264 | 461097.882 | 3784892.614 |
| AREAVERT | PAREA3 | 461165.831   | 3784832.215 | 461221.917 | 3784852.707 |



|          |        |            |             |            |             |
|----------|--------|------------|-------------|------------|-------------|
| AREAVERT | PAREA3 | 461270.452 | 3784873.200 | 461301.730 | 3784890.457 |
| AREAVERT | PAREA3 | 461322.223 | 3784934.678 | 461371.837 | 3784933.600 |
| AREAVERT | PAREA3 | 461370.759 | 3784869.964 | 461420.373 | 3784869.964 |
| AREAVERT | PAREA3 | 461474.301 | 3784909.871 | 461477.536 | 3784951.935 |
| AREAVERT | PAREA3 | 461535.779 | 3784950.857 | 461536.858 | 3784873.200 |
| AREAVERT | PAREA3 | 461691.092 | 3784817.115 | 461649.028 | 3784748.087 |
| AREAVERT | PAREA3 | 461592.943 | 3784744.851 | 461547.643 | 3784730.829 |
| AREAVERT | PAREA3 | 461499.108 | 3784704.944 | 461482.929 | 3784677.980 |
| AREAVERT | PAREA3 | 461453.808 | 3784635.916 | 461432.237 | 3784600.323 |
| AREAVERT | PAREA3 | 461412.823 | 3784569.045 | 461402.037 | 3784517.274 |
| AREAVERT | PAREA3 | 461376.151 | 3784453.638 | 461365.366 | 3784402.946 |
| AREAVERT | PAREA3 | 461352.423 | 3784372.746 | 461347.030 | 3784332.839 |
| AREAVERT | PAREA3 | 461382.623 | 3784227.140 | 461375.073 | 3784218.511 |
| AREAVERT | PAREA3 | 461322.223 | 3784303.718 | 461251.038 | 3784292.932 |
| AREAVERT | PAREA3 | 461178.774 | 3784445.010 | 461242.409 | 3784468.738 |
| AREAVERT | PAREA3 | 461251.038 | 3784539.923 | 461190.638 | 3784589.537 |
| AREAVERT | PAREA3 | 461112.981 | 3784669.351 | 461061.210 | 3784721.122 |
| AREAVERT | PAREA3 | 461014.832 | 3784737.301 | 461014.832 | 3784946.542 |
| URBANSRC | ALL    |            |             |            |             |

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

\*\* Variable Emission Scenario: "Scenario 1"

\*\* 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 |

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```

EMISFACT PAREA3      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT PAREA3      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "15585 Cons PM10.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE FONT_V9_ADJU\FONT_v9.SFC
  PROFFILE FONT_V9_ADJU\FONT_v9.PFL
  SURFDATA 3102 2011
  UAIRDATA 3190 2011
  SITEDATA 99999 2011
  PROFBASE 367.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST "15585 CONS PM10.AD\24H1GALL.PLT" 31
  SUMMFILE "15585 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 1884 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1884 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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 105 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model 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: 105 Source(s); 1 Source Group(s); and 94 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 VOLUME source(s)  
and: 3 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) = 367.00 ; 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 = 3.7 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15585 Cons

PM10.err

\*\*File for Summary of Results: 15585 Cons

PM10.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

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10:14:57

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

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

| SOURCE   | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT.    |
|----------|--------|-------------|----------|-----------|----------|----------|----------|----------|
| SOURCE   | URBAN  | EMISSION    | RATE     | AIRCRAFT  | ELEV.    | HEIGHT   | SY       | SZ       |
| ID       | PART.  | (GRAMS/SEC) |          | X         | Y        |          |          |          |
| (METERS) | SCALAR | VARY        |          | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|          | CATS.  | BY          |          |           |          |          |          |          |
| VOL1     | 0      | 0.14760E-03 | 461693.7 | 3786276.5 | 643.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL2     | 0      | 0.14760E-03 | 461646.2 | 3786333.2 | 642.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL3     | 0      | 0.14760E-03 | 461591.3 | 3786386.2 | 647.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL4     | 0      | 0.14760E-03 | 461541.9 | 3786437.5 | 649.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL5     | 0      | 0.14760E-03 | 461499.8 | 3786483.2 | 650.3    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL6     | 0      | 0.14760E-03 | 461461.4 | 3786530.8 | 651.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL7     | 0      | 0.14760E-03 | 461408.3 | 3786578.3 | 653.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL8     | 0      | 0.14760E-03 | 461452.2 | 3786636.9 | 648.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL9     | 0      | 0.14760E-03 | 461512.6 | 3786686.3 | 645.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL10    | 0      | 0.14760E-03 | 461573.0 | 3786730.2 | 644.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL11    | 0      | 0.14760E-03 | 461366.2 | 3786625.9 | 655.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL12    | 0      | 0.14760E-03 | 461289.4 | 3786679.0 | 662.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL13    | 0      | 0.14760E-03 | 461373.6 | 3786706.4 | 654.4    | 3.49     | 19.57    | 3.25     |

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

|          |        | NUMBER | EMISSION RATE |          |           | BASE     | RELEASE  | INIT.    | INIT. |
|----------|--------|--------|---------------|----------|-----------|----------|----------|----------|-------|
|          |        | URBAN  | 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            |          |           |          |          |          |       |
|          |        |        |               |          |           |          |          |          |       |
|          |        |        |               |          |           |          |          |          |       |
| VOL41    |        | 0      | 0.14760E-03   | 461007.3 | 3786998.4 | 675.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL42    |        | 0      | 0.14760E-03   | 461052.2 | 3787052.6 | 669.8    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL43    |        | 0      | 0.14760E-03   | 461134.2 | 3787056.6 | 662.0    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL44    |        | 0      | 0.14760E-03   | 461082.6 | 3786975.9 | 671.8    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL45    |        | 0      | 0.14760E-03   | 461121.0 | 3786917.8 | 665.9    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL46    |        | 0      | 0.14760E-03   | 461167.2 | 3786986.5 | 660.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL47    |        | 0      | 0.14760E-03   | 461253.2 | 3786983.9 | 656.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL48    |        | 0      | 0.14760E-03   | 461208.2 | 3786903.2 | 658.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL49    |        | 0      | 0.14760E-03   | 461234.7 | 3786831.8 | 660.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL50    |        | 0      | 0.14760E-03   | 461291.5 | 3786905.9 | 655.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL51    |        | 0      | 0.14760E-03   | 461374.8 | 3786887.4 | 652.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL52    |        | 0      | 0.14760E-03   | 461317.9 | 3786823.9 | 656.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL53    |        | 0      | 0.14760E-03   | 461287.5 | 3786757.8 | 660.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL54    |        | 0      | 0.14760E-03   | 461373.5 | 3786786.9 | 653.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL55    |        | 0      | 0.14760E-03   | 461455.4 | 3786801.4 | 648.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL56    |        | 0      | 0.14760E-03   | 461385.4 | 3786838.4 | 651.8    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL57    |        | 0      | 0.14760E-03   | 461529.4 | 3786768.4 | 645.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL58    |        | 0      | 0.35873E-04   | 462577.2 | 3786719.5 | 633.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL59    |        | 0      | 0.35873E-04   | 462660.5 | 3786693.7 | 632.6    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL60    |        | 0      | 0.35873E-04   | 462744.4 | 3786674.3 | 630.9    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL61    |        | 0      | 0.35873E-04   | 462828.9 | 3786650.9 | 628.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL62    |        | 0      | 0.35873E-04   | 462868.8 | 3786625.6 | 626.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL63    |        | 0      | 0.35873E-04   | 462848.2 | 3786541.7 | 623.0    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL64    |        | 0      | 0.35873E-04   | 462835.3 | 3786455.5 | 622.0    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL65    |        | 0      | 0.35873E-04   | 462621.2 | 3786659.7 | 631.7    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL66    |        | 0      | 0.35873E-04   | 462660.5 | 3786609.8 | 629.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL67    |        | 0      | 0.35873E-04   | 462684.6 | 3786547.6 | 627.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL68    |        | 0      | 0.35873E-04   | 462745.6 | 3786589.8 | 627.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL69    |        | 0      | 0.35873E-04   | 462807.2 | 3786567.0 | 625.0    | 3.49     | 19.57    | 3.25  |

|                                                                                      |       |   |             |          |           |       |      |       |      |
|--------------------------------------------------------------------------------------|-------|---|-------------|----------|-----------|-------|------|-------|------|
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL70                                                                                |       | 0 | 0.35873E-04 | 462716.8 | 3786469.0 | 624.4 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL71                                                                                |       | 0 | 0.35873E-04 | 462751.4 | 3786439.1 | 622.4 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL72                                                                                |       | 0 | 0.35873E-04 | 462835.3 | 3786419.7 | 622.0 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL73                                                                                |       | 0 | 0.35873E-04 | 462764.4 | 3786515.3 | 623.5 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL74                                                                                |       | 0 | 0.11453E-03 | 461061.9 | 3784936.7 | 654.0 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL75                                                                                |       | 0 | 0.11453E-03 | 461059.8 | 3784850.6 | 644.0 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL76                                                                                |       | 0 | 0.11453E-03 | 461057.6 | 3784762.3 | 642.0 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL77                                                                                |       | 0 | 0.11453E-03 | 461141.6 | 3784805.4 | 641.6 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL78                                                                                |       | 0 | 0.11453E-03 | 461139.5 | 3784721.4 | 639.0 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL79                                                                                |       | 0 | 0.11453E-03 | 461225.6 | 3784805.4 | 636.6 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| VOL80                                                                                |       | 0 | 0.11453E-03 | 461225.6 | 3784723.6 | 634.0 | 3.49 | 19.57 | 3.25 |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |      |
| *** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen |       |   |             |          |           |       |      |       |      |
| SP\15585 Ops H *** 04/16/24                                                          |       |   |             |          |           |       |      |       |      |
| *** AERMET - VERSION 16216 ***                                                       |       |   |             |          |           |       |      |       |      |
| *** 10:14:57                                                                         |       |   |             |          |           |       |      |       |      |

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

| *** VOLUME SOURCE DATA *** |        |        |             |          |           |          |          |          |       |
|----------------------------|--------|--------|-------------|----------|-----------|----------|----------|----------|-------|
|                            |        | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT. |
|                            |        | URBAN  | 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          |          |           |          |          |          |       |
| -----                      |        |        |             |          |           |          |          |          |       |
| -----                      |        |        |             |          |           |          |          |          |       |
| VOL81                      |        | 0      | 0.11453E-03 | 461223.7 | 3784635.4 | 631.4    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL82                      |        | 0      | 0.11453E-03 | 461156.8 | 3784658.7 | 636.7    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL83                      |        | 0      | 0.11453E-03 | 461312.3 | 3784885.8 | 641.4    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL84                      |        | 0      | 0.11453E-03 | 461310.8 | 3784801.8 | 632.5    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL85                      |        | 0      | 0.11453E-03 | 461312.3 | 3784714.7 | 629.8    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL86                      |        | 0      | 0.11453E-03 | 461309.2 | 3784630.7 | 628.2    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL87                      |        | 0      | 0.11453E-03 | 461284.3 | 3784548.3 | 629.4    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL88                      |        | 0      | 0.11453E-03 | 461369.9 | 3784543.6 | 624.3    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL89                      |        | 0      | 0.11453E-03 | 461289.0 | 3784462.7 | 624.5    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL90                      |        | 0      | 0.11453E-03 | 461225.2 | 3784422.3 | 627.2    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL91                      |        | 0      | 0.11453E-03 | 461371.4 | 3784458.0 | 621.3    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL92                      |        | 0      | 0.11453E-03 | 461270.3 | 3784338.3 | 620.3    | 3.49     | 19.57    | 3.25  |

|                                                                                      |       |   |             |          |           |       |      |       |          |
|--------------------------------------------------------------------------------------|-------|---|-------------|----------|-----------|-------|------|-------|----------|
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL93                                                                                |       | 0 | 0.11453E-03 | 461310.8 | 3784375.6 | 619.3 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL94                                                                                |       | 0 | 0.11453E-03 | 461396.3 | 3784627.6 | 624.3 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL95                                                                                |       | 0 | 0.11453E-03 | 461397.9 | 3784711.6 | 626.6 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL96                                                                                |       | 0 | 0.11453E-03 | 461396.3 | 3784797.2 | 630.2 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL97                                                                                |       | 0 | 0.11453E-03 | 461483.4 | 3784714.7 | 622.9 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL98                                                                                |       | 0 | 0.11453E-03 | 461481.9 | 3784795.6 | 626.2 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL99                                                                                |       | 0 | 0.11453E-03 | 461486.6 | 3784879.6 | 631.1 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL100                                                                               |       | 0 | 0.11453E-03 | 461569.0 | 3784776.9 | 621.4 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL101                                                                               |       | 0 | 0.11453E-03 | 461643.7 | 3784787.8 | 622.8 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| VOL102                                                                               |       | 0 | 0.11453E-03 | 461562.8 | 3784825.2 | 625.1 | 3.49 | 19.57 | 3.25     |
| YES                                                                                  | HRDOW |   | NO          |          |           |       |      |       |          |
| *** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen |       |   |             |          |           |       |      |       |          |
| SP\15585 Ops H *** 04/16/24                                                          |       |   |             |          |           |       |      |       |          |
| *** AERMET - VERSION 16216 ***                                                       |       |   |             |          |           |       |      |       |          |
|                                                                                      |       |   |             |          |           |       |      | ***   | 10:14:57 |

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

\*\*\* AREAPOLY SOURCE DATA \*\*\*

| SOURCE                                                                               | NUMBER      | EMISSION    | RATE       | LOCATION OF AREA |          | BASE     | RELEASE  | NUMBER    | INIT.    |
|--------------------------------------------------------------------------------------|-------------|-------------|------------|------------------|----------|----------|----------|-----------|----------|
| SOURCE                                                                               | URBAN       | EMISSION    | RATE       | AIRCRAFT         |          |          |          |           |          |
| ID                                                                                   | PART.       | (GRAMS/SEC  |            | X                | Y        | ELEV.    | HEIGHT   | OF VERTS. | SZ       |
| (METERS)                                                                             | SCALAR VARY | CATS.       | /METER**2) | (METERS)         | (METERS) | (METERS) | (METERS) |           |          |
| PAREA1                                                                               | 0           | 0.12872E-06 | 460528.4   | 3787418.3        | 691.8    | 0.00     | 13       | 1.00      |          |
| YES                                                                                  | HRDOW       | NO          |            |                  |          |          |          |           |          |
| PAREA2                                                                               | 0           | 0.13909E-06 | 462517.9   | 3786759.8        | 633.0    | 0.00     | 5        | 1.00      |          |
| YES                                                                                  | HRDOW       | NO          |            |                  |          |          |          |           |          |
| PAREA3                                                                               | 0           | 0.17087E-06 | 461036.4   | 3784972.4        | 658.9    | 0.00     | 42       | 1.00      |          |
| YES                                                                                  | HRDOW       | NO          |            |                  |          |          |          |           |          |
| *** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen |             |             |            |                  |          |          |          |           |          |
| SP\15585 Ops H *** 04/16/24                                                          |             |             |            |                  |          |          |          |           |          |
| *** AERMET - VERSION 16216 ***                                                       |             |             |            |                  |          |          |          |           |          |
|                                                                                      |             |             |            |                  |          |          |          | ***       | 10:14:57 |

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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  | , VOL5  | , VOL6  | , VOL7  |  |
| VOL7        | , VOL8     | , VOL9 | , VOL10 | , VOL11 | , VOL12 | , VOL13 | , VOL14 |  |

PAREA3

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57

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

| URBAN_ID | URBAN_POP             | SOURCE_IDS         |              |       |         |         |   |
|----------|-----------------------|--------------------|--------------|-------|---------|---------|---|
|          |                       |                    |              |       |         |         |   |
| VOL8     | 2035210.<br>VOL6<br>, | VOL1<br>, VOL7     | , VOL2<br>,  | VOL3  | , VOL4  | , VOL5  | , |
|          | VOL9<br>VOL15         | , VOL10<br>, VOL16 | , VOL11<br>, | VOL12 | , VOL13 | , VOL14 | , |
|          | VOL17<br>VOL23        | , VOL18<br>, VOL24 | , VOL19<br>, | VOL20 | , VOL21 | , VOL22 | , |
|          | VOL25<br>VOL31        | , VOL26<br>, VOL32 | , VOL27<br>, | VOL28 | , VOL29 | , VOL30 | , |
|          | VOL33<br>VOL39        | , VOL34<br>, VOL40 | , VOL35<br>, | VOL36 | , VOL37 | , VOL38 | , |



VOL41 , VOL42 , VOL43 , VOL44 , VOL45 , VOL46 ,  
VOL47 , VOL48 ,  
  
VOL49 , VOL50 , VOL51 , VOL52 , VOL53 , VOL54 ,  
VOL55 , VOL56 ,  
  
VOL57 , VOL58 , VOL59 , VOL60 , VOL61 , VOL62 ,  
VOL63 , VOL64 ,  
  
VOL65 , VOL66 , VOL67 , VOL68 , VOL69 , VOL70 ,  
VOL71 , VOL72 ,  
  
VOL73 , VOL74 , VOL75 , VOL76 , VOL77 , VOL78 ,  
VOL79 , VOL80 ,  
  
VOL81 , VOL82 , VOL83 , VOL84 , VOL85 , VOL86 ,  
VOL87 , VOL88 ,  
  
VOL89 , VOL90 , VOL91 , VOL92 , VOL93 , VOL94 ,  
VOL95 , VOL96 ,  
  
VOL97 , VOL98 , VOL99 , VOL100 , VOL101 , VOL102 ,  
PAREA1 , PAREA2 ,

PAREA3 ,

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SP\15585 Ops H \*\*\* 04/16/24  
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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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SP\15585 Ops H \*\*\* 04/16/24

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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 = 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL5 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL6 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL7 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:14:57

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                                PAGE 15
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL8 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:14:57

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                                PAGE 16
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL9 ; 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 |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 10:14:57

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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 = VOL10 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL11 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL12 ; 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 |  |

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57
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                                PAGE 20
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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SOURCE ID = VOL13 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57
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                                PAGE 21
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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```
SOURCE ID = VOL14 ; 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
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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
***

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10:14:57

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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) \*

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SOURCE ID = VOL15 ; 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

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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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*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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10:14:57

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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 = VOL16 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -

```

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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL17 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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

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

SOURCE ID = VOL18 ; 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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 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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10:14:57

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

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

SOURCE ID = VOL19 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL20 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL21 ; 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

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  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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:14:57

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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 = VOL22      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:14:57

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                                PAGE 30
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL23      ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL24 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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) *
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SOURCE ID = VOL25 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL26 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL27 ; 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 |              |              |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen

SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL28 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL29 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL30 ; 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
```

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                                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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL31 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL32 ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:14:57

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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) *

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```

SOURCE ID = VOL33      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:14:57

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

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

SOURCE ID = VOL34 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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10:14:57

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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 = VOL35 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL36 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL37 ; 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

DAY OF WEEK = SUNDAY

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***                                     *** 10:14:57

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*** MODELOPTs:  ReqDFault  CONC  ELEV  FLGPOL  URBAN  ADJ  U*
```

| SOURCE ID = VOL38 |        |        |        | ; SOURCE TYPE = VOLUME |        |      |        |      |        |      |        |
|-------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR              | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| SCALAR            | HOUR   | SCALAR | HOUR   | SCALAR                 |        |      |        |      |        |      |        |

DAY OF WEEK = WEEKDAY

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

\*\*\* 10:14:57

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*** MODELOPTs:  ReqDEFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ  U*
```

| SOURCE ID = VOL39 |        |        |        | ; SOURCE TYPE = VOLUME |        |      |        |      |        |      |        |
|-------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR              | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| 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  | .0000E+00 | 10 | .0000E+00 | 11 | .0000E+00 | 12 | .0000E+00 |
| 13 | .1000E+01 | 14 | .1000E+01 | 15 | .1000E+01 | 16 | .1000E+01 | 17 | .1000E+01 | 18 | .1000E+01 |

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL40 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL41 ; SOURCE TYPE = VOLUME :
```

| HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL42      |                | ; SOURCE TYPE = VOLUME |                |                |                |                |                |                |                |                |                |
|------------------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR |
| 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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 10:14:57



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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = VOL43 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:14:57

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = VOL44 ; 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 |           |   |           |   |           |   |

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 10:14:57

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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 = VOL45 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 10:14:57

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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 = VOL46 ; 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

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```
.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:14:57
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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 = VOL47 ; 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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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:14:57
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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 = VOL48 ; 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 |    |           |    |           |    |  |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*      \*\*\*      10:14:57

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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 = VOL49      ; SOURCE TYPE = VOLUME      :

|        |        |        |        |        |        |      |        |      |        |      |        |
|--------|--------|--------|--------|--------|--------|------|--------|------|--------|------|--------|
| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| 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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\*      \*\*\*      10:14:57

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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 = VOL50 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL51 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen

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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 = VOL52 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL53 ; 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 = VOL54 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |

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 = VOL55 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |

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 |  |

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL56 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL57 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:14:57

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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 = VOL58 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:14:57

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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 = VOL59 ; 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 = VOL60 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL61 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL62 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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PAGE 70
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL63 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL64 ; 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
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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57

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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 = VOL65 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57

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PAGE 73
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

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SOURCE ID = VOL66          ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***
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10:14:57

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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) *

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SOURCE ID = VOL67          ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***

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10:14:57

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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 = VOL68 ; 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 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24\*\*\* AERMET - VERSION 16216 \*\*\*  
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10:14:57

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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 = VOL69 ; 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 |  |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|--|

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL70 ; 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
```

```
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL71 ; 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



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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57
```

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                                PAGE 79
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL72 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57
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                                PAGE 80
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL73 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 10:14:57

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                                PAGE 81
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL74 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 10:14:57

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                                PAGE 82
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL75 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:14:57

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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 = VOL76 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL77 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL78 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57
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                                PAGE 86
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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SOURCE ID = VOL79 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57
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                                PAGE 87
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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SOURCE ID = VOL80 ; 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
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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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) \*

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SOURCE ID = VOL81 ; 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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*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL82 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -

```

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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL83 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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

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

SOURCE ID = VOL84 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL85 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL86 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL87 ; 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

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  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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:14:57

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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 = VOL88      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:14:57

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                                PAGE 96
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL89      ; 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

```

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
***
PAGE 97
*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*
* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
SOURCE ID = VOL90 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
***
PAGE 98
*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*
* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

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SOURCE ID = VOL91 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL92 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL93 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL94 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL95 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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 = VOL96 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL97 ; 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

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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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*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL98 ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:14:57

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                                PAGE 106
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

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SOURCE ID = VOL99      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***
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                                PAGE 107
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = VOL100 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL101 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = VOL102 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:14:57

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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 = 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 |           |    |           |    |           |    |

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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
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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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) *
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```
SOURCE ID = PAREA2 ; 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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57
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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) *
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```
SOURCE ID = PAREA3 ; 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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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10:14:57

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

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

( 463154.3, 3786819.6, 631.4, 1734.0, 2.0); ( 463167.5, 3786865.5,  
633.6, 1734.0, 2.0);  
( 463147.6, 3786873.2, 634.1, 1734.0, 2.0); ( 463129.9, 3786877.4,  
634.4, 1734.0, 2.0);  
( 463110.0, 3786886.9, 635.4, 1734.0, 2.0); ( 463059.0, 3786966.9,  
641.4, 1734.0, 2.0);  
( 463074.9, 3787087.9, 646.7, 1734.0, 2.0); ( 463102.5, 3787076.0,  
645.0, 1734.0, 2.0);  
( 462919.9, 3787058.3, 650.6, 1734.0, 2.0); ( 463042.0, 3787098.7,  
649.3, 1734.0, 2.0);  
( 462998.1, 3787106.0, 651.7, 1734.0, 2.0); ( 462944.0, 3787123.4,  
653.8, 1734.0, 2.0);  
( 462850.6, 3787079.7, 652.9, 1734.0, 2.0); ( 462807.5, 3787091.0,  
653.6, 1734.0, 2.0);  
( 462821.9, 3787159.9, 658.2, 1734.0, 2.0); ( 462755.2, 3787105.3,  
654.6, 1734.0, 2.0);  
( 462743.8, 3787181.3, 659.7, 1734.0, 2.0); ( 462870.3, 3787147.1,  
657.4, 1734.0, 2.0);  
( 462890.0, 3787138.7, 656.5, 1734.0, 2.0); ( 462725.4, 3787114.5,  
655.2, 1734.0, 2.0);  
( 462685.8, 3787125.8, 655.9, 1734.0, 2.0); ( 462656.2, 3787132.7,  
656.5, 1734.0, 2.0);  
( 462632.9, 3787123.9, 655.6, 1734.0, 2.0); ( 462595.9, 3787152.0,  
658.4, 1734.0, 2.0);  
( 462571.7, 3787160.3, 658.8, 1734.0, 2.0); ( 462473.7, 3787233.0,  
657.1, 1734.0, 2.0);  
( 462534.0, 3787244.6, 659.9, 1734.0, 2.0); ( 462400.1, 3787275.4,  
659.0, 1734.0, 2.0);  
( 462229.2, 3787434.2, 674.5, 1734.0, 2.0); ( 462257.0, 3787342.4,  
668.1, 1734.0, 2.0);  
( 462128.4, 3787527.6, 684.6, 1734.0, 2.0); ( 462183.2, 3787452.4,  
675.8, 1734.0, 2.0);  
( 462022.5, 3787623.1, 687.6, 1734.0, 2.0); ( 461918.3, 3787709.0,  
694.2, 1734.0, 2.0);  
( 462038.5, 3787667.1, 695.0, 1734.0, 2.0); ( 461424.9, 3788158.1,  
731.4, 1734.0, 2.0);  
( 461926.8, 3788065.0, 727.1, 1734.0, 2.0); ( 461937.8, 3787798.6,

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702.8,      1734.0,      2.0);
( 461956.2, 3787956.4,      718.2,      1734.0,      2.0);
726.6,      1734.0,      2.0);
( 461132.5, 3788399.4,      744.9,      1734.0,      2.0);
757.8,      1734.0,      2.0);
( 460943.7, 3788817.1,      758.9,      1734.0,      2.0);
770.2,      1734.0,      2.0);
( 457715.3, 3790467.0,      770.2,      1734.0,      2.0);
772.7,      1734.0,      2.0);
( 457752.2, 3790534.9,      771.1,      1734.0,      2.0);
751.7,      1734.0,      2.0);
( 463178.4, 3786251.1,      613.0,      1734.0,      2.0);
633.2,      1734.0,      2.0);
( 462674.0, 3786877.7,      639.7,      1734.0,      2.0);
635.5,      1734.0,      2.0);
( 462768.8, 3786780.7,      634.5,      1734.0,      2.0);
589.4,      1734.0,      2.0);
( 461655.6, 3783762.7,      593.9,      1734.0,      2.0);
599.8,      1734.0,      2.0);
( 461846.6, 3783749.2,      600.8,      1734.0,      2.0);
615.2,      1734.0,      2.0);
( 462019.9, 3783739.8,      613.5,      1734.0,      2.0);
606.0,      1734.0,      2.0);
( 462214.8, 3783729.3,      610.5,      1734.0,      2.0);
621.8,      1734.0,      2.0);
( 461658.1, 3783690.3,      600.5,      1734.0,      2.0);
601.3,      1734.0,      2.0);
( 461249.5, 3783484.0,      594.5,      1734.0,      2.0);
587.5,      1734.0,      2.0);
( 461567.3, 3783209.6,      582.7,      1734.0,      2.0);
583.9,      1734.0,      2.0);
( 461612.5, 3783185.0,      580.9,      1734.0,      2.0);
606.7,      1734.0,      2.0);
( 460848.3, 3783334.1,      610.0,      1734.0,      2.0);
611.6,      1734.0,      2.0);
( 460668.8, 3783186.4,      612.4,      1734.0,      2.0);
612.8,      1734.0,      2.0);
( 460496.5, 3783051.5,      611.6,      1734.0,      2.0);
612.5,      1734.0,      2.0);
( 460583.9, 3783527.4,      618.6,      1734.0,      2.0);
620.0,      1734.0,      2.0);
( 460403.7, 3783447.4,      622.7,      1734.0,      2.0);
626.7,      1734.0,      2.0);
( 459503.3, 3782889.0,      625.8,      1734.0,      2.0);
632.6,      1734.0,      2.0);
( 459382.3, 3783016.7,      631.6,      1734.0,      2.0);
636.1,      1734.0,      2.0);
( 459320.3, 3783264.9,      639.9,      1734.0,      2.0);
615.2,      1734.0,      2.0);
( 466077.1, 3784031.3,      535.0,      1734.0,      2.0);
536.0,      1734.0,      2.0);
( 465960.2, 3784644.2,      547.3,      1734.0,      2.0);
545.5,      1734.0,      2.0);

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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:14:57

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

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

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( 462710.5, 3782876.4,      547.6,      1734.0,      2.0);
( 462069.8, 3783383.5,

```

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H ***                  04/16/24  
*** AERMET - VERSION 16216 ***  
***                                     *** 10:14:57
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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)

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*** AERMOD - VERSION 23132 ***      1.54,      3.09,      5.14,      8.23,      10.80,
SP\15585 Ops H ***      04/16/24 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
*** AERMET - VERSION 16216 ***
***                                     ***      10:14:57

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

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

```
Surface file:
FONT_V9_ADJU\FONT_v9.SFC
Version: 16216
Profile file:
FONT_V9_ADJU\FONT_v9.PFL
Surface format:
FREE

Profile format:
FREE
```

|                      |         |                        |      |
|----------------------|---------|------------------------|------|
| Surface station no.: | 3102    | Upper air station no.: | 3190 |
| Name:                | UNKNOWN | Name:                  |      |
| UNKNOWN              |         |                        |      |
| Year:                | 2011    | Year:                  | 2011 |

## 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  |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 01  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 69.  | 9.1 | 276.4 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 02  | -23.8 | 0.239 | -9.000 | -9.000 | -999. | 281.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 52.  | 9.1 | 275.4 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 03  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 32.  | 9.1 | 275.4 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 04  | -1.4  | 0.067 | -9.000 | -9.000 | -999. | 57.   | 18.3  | 0.25 | 2.82 | 1.00  | 0.40   |     |    |
| 27.  | 9.1 | 274.2 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 05  | -18.6 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 51.  | 9.1 | 274.2 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 06  | -29.7 | 0.296 | -9.000 | -9.000 | -999. | 387.  | 96.6  | 0.25 | 2.82 | 1.00  | 2.70   |     |    |
| 53.  | 9.1 | 274.2 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 07  | -24.0 | 0.239 | -9.000 | -9.000 | -999. | 282.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 70.  | 9.1 | 274.2 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 08  | -8.4  | 0.138 | -9.000 | -9.000 | -999. | 127.  | 27.3  | 0.25 | 2.82 | 0.54  | 1.30   |     |    |
| 72.  | 9.1 | 275.4 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 09  | 44.3  | 0.280 | 0.571  | 0.005  | 147.  | 356.  | -43.5 | 0.25 | 2.82 | 0.32  | 2.20   |     |    |
| 67.  | 9.1 | 277.5 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 10  | 122.7 | 0.264 | 0.952  | 0.005  | 247.  | 326.  | -13.2 | 0.25 | 2.82 | 0.25  | 1.80   |     |    |
| 83.  | 9.1 | 279.9 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 11  | 179.8 | 0.316 | 1.733  | 0.005  | 1017. | 426.  | -15.4 | 0.25 | 2.82 | 0.22  | 2.20   |     |    |
| 58.  | 9.1 | 282.0 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 12  | 206.0 | 0.320 | 1.940  | 0.008  | 1244. | 435.  | -14.0 | 0.25 | 2.82 | 0.21  | 2.20   |     |    |
| 115. | 9.1 | 283.1 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 13  | 132.6 | 0.214 | 1.733  | 0.009  | 1377. | 243.  | -6.5  | 0.25 | 2.82 | 0.21  | 1.30   |     |    |
| 147. | 9.1 | 284.2 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 14  | 147.0 | 0.216 | 1.818  | 0.009  | 1431. | 242.  | -6.0  | 0.25 | 2.82 | 0.23  | 1.30   |     |    |
| 219. | 9.1 | 284.9 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 15  | 104.0 | 0.208 | 1.633  | 0.009  | 1468. | 228.  | -7.6  | 0.25 | 2.82 | 0.26  | 1.30   |     |    |
| 126. | 9.1 | 285.4 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 16  | 26.4  | 0.140 | 1.037  | 0.009  | 1477. | 127.  | -9.1  | 0.25 | 2.82 | 0.35  | 0.90   |     |    |
| 151. | 9.1 | 284.9 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 17  | -9.0  | 0.137 | -9.000 | -9.000 | -999. | 121.  | 24.9  | 0.25 | 2.82 | 0.63  | 1.30   |     |    |
| 69.  | 9.1 | 283.1 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 18  | -33.4 | 0.342 | -9.000 | -9.000 | -999. | 481.  | 129.0 | 0.25 | 2.82 | 1.00  | 3.10   |     |    |
| 81.  | 9.1 | 281.4 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 19  | -33.6 | 0.342 | -9.000 | -9.000 | -999. | 481.  | 128.9 | 0.25 | 2.82 | 1.00  | 3.10   |     |    |
| 51.  | 9.1 | 279.9 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 20  | -23.6 | 0.239 | -9.000 | -9.000 | -999. | 287.  | 63.1  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 77.  | 9.1 | 278.8 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 21  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 53.  | 9.1 | 277.5 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 22  | -23.7 | 0.239 | -9.000 | -9.000 | -999. | 281.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 58.  | 9.1 | 277.5 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 23  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 64.  | 9.1 | 277.5 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01  | 01    | 1   | 24  | -4.5  | 0.094 | -9.000 | -9.000 | -999. | 74.   | 16.3  | 0.25 | 2.82 | 1.00  | 0.90   |     |    |
| 52.  | 9.1 | 277.0 |     | 5.5 |       |       |        |        |       |       |       |      |      |       |        |     |    |

## First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 11 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 276.5   | 99.0   | -99.00 | -99.00 |
| 11 | 01 | 01 | 01 | 9.1    | 1 | 69.   | 1.80   | -999.0  | 99.0   | -99.00 | -99.00 |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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10:14:57

\*\*\* 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 , VOL5

VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,

VOL11 , VOL12 , VOL13 ,

VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,

VOL19 , VOL20 , VOL21 ,

VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,

VOL27 , VOL28 , . . . ,

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

\*\* CONC OF PM<sub>10</sub> IN  
MICROGRAMS/M<sup>3</sup>

\*\*

| X-COORD (M)<br>(M) | Y-COORD (M)<br>CONC (YYMMDDHH) | CONC<br>(YYMMDDHH) | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|--------------------|--------------------------------|--------------------|------------|-------------|---------|
| 463154.33          | 3786819.61                     | 0.03841            | (15120924) | 463167.45   |         |
| 3786865.52         | 0.03557                        | (15120924)         |            |             |         |
| 463147.58          | 3786873.25                     | 0.03653            | (15120924) | 463129.92   |         |
| 3786877.44         | 0.03715                        | (15120924)         |            |             |         |
| 463110.04          | 3786886.94                     | 0.03867            | (16011524) | 463059.03   |         |
| 3786966.87         | 0.03444                        | (16011524)         |            |             |         |
| 463074.93          | 3787087.88                     | 0.02819            | (15122124) | 463102.53   |         |
| 3787075.96         | 0.02653                        | (16011524)         |            |             |         |
| 462919.92          | 3787058.29                     | 0.03071            | (15122124) | 463042.03   |         |
| 3787098.70         | 0.02949                        | (15122124)         |            |             |         |
| 462998.09          | 3787105.99                     | 0.02969            | (15122124) | 462943.99   |         |
| 3787123.43         | 0.02827                        | (15122124)         |            |             |         |
| 462850.58          | 3787079.71                     | 0.02768            | (15122124) | 462807.52   |         |
| 3787090.97         | 0.02579                        | (15122124)         |            |             |         |
| 462821.88          | 3787159.87                     | 0.02360            | (15122124) | 462755.22   |         |
| 3787105.29         | 0.02346                        | (15122124)         |            |             |         |
| 462743.77          | 3787181.31                     | 0.02096            | (15122124) | 462870.28   |         |
| 3787147.15         | 0.02548                        | (15122124)         |            |             |         |
| 462889.99          | 3787138.70                     | 0.02634            | (15122124) | 462725.43   |         |
| 3787114.51         | 0.02225                        | (15122124)         |            |             |         |
| 462685.82          | 3787125.77                     | 0.02121            | (15122124) | 462656.17   |         |
| 3787132.72         | 0.02098                        | (15122124)         |            |             |         |
| 462632.89          | 3787123.90                     | 0.02113            | (15122124) | 462595.92   |         |
| 3787152.05         | 0.02127                        | (15122124)         |            |             |         |
| 462571.70          | 3787160.31                     | 0.02143            | (15122124) | 462473.70   |         |
| 3787233.03         | 0.02144                        | (15122124)         |            |             |         |
| 462534.01          | 3787244.58                     | 0.02125            | (15122124) | 462400.07   |         |
| 3787275.41         | 0.02107                        | (15122124)         |            |             |         |
| 462229.16          | 3787434.24                     | 0.02390            | (16120524) | 462256.97   |         |
| 3787342.44         | 0.02303                        | (16120524)         |            |             |         |
| 462128.43          | 3787527.59                     | 0.02523            | (16120524) | 462183.16   |         |
| 3787452.38         | 0.02446                        | (16120524)         |            |             |         |
| 462022.45          | 3787623.08                     | 0.02633            | (16120524) | 461918.34   |         |
| 3787709.00         | 0.02639                        | (16120524)         |            |             |         |
| 462038.54          | 3787667.10                     | 0.02574            | (16120524) | 461424.87   |         |
| 3788158.12         | 0.01915                        | (11122924)         |            |             |         |
| 461926.79          | 3788065.01                     | 0.02258            | (16120524) | 461937.75   |         |
| 3787798.61         | 0.02517                        | (16120524)         |            |             |         |
| 461956.17          | 3787956.45                     | 0.02364            | (16120524) | 461303.41   |         |
| 3788188.53         | 0.01888                        | (11122924)         |            |             |         |
| 461132.48          | 3788399.44                     | 0.01659            | (11122924) | 461058.72   |         |
| 3788731.50         | 0.01374                        | (15011224)         |            |             |         |
| 460943.68          | 3788817.15                     | 0.01325            | (15011224) | 457324.43   |         |



```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:14:57

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```
*** MODELOPTs:      ReqDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ  U*
```

\*\*\* 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) |
|-------------|-------------|---------|------------|-------------|-------------|---------|------------|
| 459503.27   | 3782889.01  | 0.01015 | (13010924) | 459388.10   | 3782889.01  | 0.01015 | (13010924) |

|            |            |            |                      |
|------------|------------|------------|----------------------|
| 3783065.74 | 0.01072    | (12120324) |                      |
| 459382.29  | 3783016.73 | 0.01047    | (12120324) 459350.12 |
| 3783155.49 | 0.01099    | (12120324) |                      |
| 459320.33  | 3783264.86 | 0.01086    | (12120324) 463904.58 |
| 3786591.83 | 0.01605    | (15101424) |                      |
| 466077.15  | 3784031.33 | 0.00614    | (16122724) 466200.85 |
| 3784253.98 | 0.00664    | (16122724) |                      |
| 465960.20  | 3784644.19 | 0.00637    | (16122724) 466195.23 |
| 3784596.96 | 0.00634    | (16122724) |                      |
| 462710.50  | 3782876.40 | 0.00831    | (13010124) 462069.84 |
| 3783383.52 | 0.01848    | (15122224) |                      |
| 462277.17  | 3783298.31 | 0.01375    | (15122224) 461797.05 |
| 3783468.72 | 0.02026    | (15122224) |                      |

 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* \*\*\* 10:14:57

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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       | NETWORK                                  |
|----------------------|----------|-------------------|------------|------------------------------------------|
| ZELEV, ZHILL, ZFLAG) | OF TYPE  | GRID-ID           | (YYMMDDHH) | RECEPTOR (XR, YR,                        |
| -----                |          |                   |            |                                          |
| -----                |          |                   |            |                                          |
| ALL                  | HIGH     | 1ST HIGH VALUE IS | 0.13802    | ON 16010624: AT ( 462814.44, 3786754.18, |
| 633.19,              | 1734.00, | 2.00) DC          |            |                                          |

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

 \*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* \*\*\* 10:14:57

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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 | 7 Warning Message(s)                         |
| A Total of | 838 Informational Message(s)                 |
|            |                                              |
| A Total of | 43848 Hours Were Processed                   |
| A Total of | 40 Calm Hours Identified                     |
| A Total of | 798 Missing Hours Identified ( 1.82 Percent) |

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

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

|         |       |                                                           |            |
|---------|-------|-----------------------------------------------------------|------------|
| ME W186 | 1884  | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50       |
| ME W187 | 1884  | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |            |
| MX W438 | 8800  | METQA: Convective Velocity Data Out-of-Range. KURDAT =    | 12010216   |
| MX W438 | 11536 | METQA: Convective Velocity Data Out-of-Range. KURDAT =    | 12042516   |
| MX W420 | 16779 | METQA: Wind Speed Out-of-Range. KURDAT =                  | 12113003   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: | 15010101   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: | 1 year gap |

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

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/16/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Cons PM25\15585 Cons
PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 24
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID PM_2.5
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Cons PM25.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870

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|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL29 | VOLUME | 460639.798 | 3787451.816 | 679.140 |
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |

|                      |           |              |            |             |         |
|----------------------|-----------|--------------|------------|-------------|---------|
| LOCATION             | VOL95     | VOLUME       | 461397.891 | 3784711.595 | 626.590 |
| LOCATION             | VOL96     | VOLUME       | 461396.335 | 3784797.151 | 630.160 |
| LOCATION             | VOL97     | VOLUME       | 461483.447 | 3784714.706 | 622.870 |
| LOCATION             | VOL98     | VOLUME       | 461481.891 | 3784795.596 | 626.210 |
| LOCATION             | VOL99     | VOLUME       | 461486.558 | 3784879.596 | 631.090 |
| LOCATION             | VOL100    | VOLUME       | 461569.003 | 3784776.929 | 621.370 |
| LOCATION             | VOL101    | VOLUME       | 461643.670 | 3784787.818 | 622.790 |
| LOCATION             | VOL102    | VOLUME       | 461562.781 | 3784825.151 | 625.070 |
| LOCATION             | PAREA1    | AREAPOLY     | 460528.359 | 3787418.313 | 691.840 |
| ** DESCRSRC          | Subarea A |              |            |             |         |
| LOCATION             | PAREA2    | AREAPOLY     | 462517.880 | 3786759.792 | 633.000 |
| ** DESCRSRC          | Subarea B |              |            |             |         |
| LOCATION             | PAREA3    | AREAPOLY     | 461036.403 | 3784972.428 | 658.950 |
| ** DESCRSRC          | Subarea C |              |            |             |         |
| ** Source Parameters | **        |              |            |             |         |
| SRCPARAM             | VOL1      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL2      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL3      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL4      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL5      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL6      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL7      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL8      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL9      | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL10     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL11     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL12     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL13     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL14     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL15     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL16     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL17     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL18     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL19     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL20     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL21     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL22     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL23     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL24     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL25     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL26     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL27     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL28     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL29     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL30     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL31     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL32     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL33     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL34     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL35     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL36     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL37     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL38     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL39     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL40     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL41     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL42     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL43     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL44     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL45     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL46     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL47     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL48     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL49     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL50     | 0.0001361318 | 3.490      | 19.572      | 3.250   |
| SRCPARAM             | VOL51     | 0.0001361318 | 3.490      | 19.572      | 3.250   |

|          |        |              |             |            |             |
|----------|--------|--------------|-------------|------------|-------------|
| SRCPARAM | VOL52  | 0.0001361318 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL53  | 0.0001361318 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL54  | 0.0001361318 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL55  | 0.0001361318 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL56  | 0.0001361318 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL57  | 0.0001361318 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL58  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL59  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL60  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL61  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL62  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL63  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL64  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL65  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL66  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL67  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL68  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL69  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL70  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL71  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL72  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL73  | 0.0000330852 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL74  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL75  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL76  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL77  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL78  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL79  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL80  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL81  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL82  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL83  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL84  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL85  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL86  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL87  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL88  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL89  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL90  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL91  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL92  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL93  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL94  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL95  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL96  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL97  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL98  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL99  | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL100 | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL101 | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | VOL102 | 0.0001056313 | 3.490       | 19.572     | 3.250       |
| SRCPARAM | PAREA1 | 6.1174E-08   | 0.000       | 13         | 1.000       |
| AREAVERT | PAREA1 | 460528.359   | 3787418.313 | 460624.790 | 3787500.787 |
| AREAVERT | PAREA1 | 461630.970   | 3786735.684 | 461482.517 | 3786597.382 |
| AREAVERT | PAREA1 | 461748.971   | 3786277.638 | 461696.949 | 3786224.347 |
| AREAVERT | PAREA1 | 461284.580   | 3786637.985 | 461181.805 | 3786721.727 |
| AREAVERT | PAREA1 | 461147.547   | 3786769.943 | 461004.170 | 3786876.524 |
| AREAVERT | PAREA1 | 460933.115   | 3786922.202 | 460845.566 | 3787018.633 |
| AREAVERT | PAREA1 | 460533.435   | 3787417.045 |            |             |
| SRCPARAM | PAREA2 | 6.6102E-08   | 0.000       | 5          | 1.000       |
| AREAVERT | PAREA2 | 462517.880   | 3786759.792 | 462912.486 | 3786648.135 |
| AREAVERT | PAREA2 | 462866.808   | 3786401.983 | 462845.238 | 3786395.639 |
| AREAVERT | PAREA2 | 462727.237   | 3786398.176 |            |             |
| SRCPARAM | PAREA3 | 8.121E-08    | 0.000       | 42         | 1.000       |
| AREAVERT | PAREA3 | 461036.403   | 3784972.428 | 461119.453 | 3784972.428 |
| AREAVERT | PAREA3 | 461095.724   | 3784915.264 | 461097.882 | 3784892.614 |

|          |        |            |             |            |             |
|----------|--------|------------|-------------|------------|-------------|
| AREAVERT | PAREA3 | 461165.831 | 3784832.215 | 461221.917 | 3784852.707 |
| AREAVERT | PAREA3 | 461270.452 | 3784873.200 | 461301.730 | 3784890.457 |
| AREAVERT | PAREA3 | 461322.223 | 3784934.678 | 461371.837 | 3784933.600 |
| AREAVERT | PAREA3 | 461370.759 | 3784869.964 | 461420.373 | 3784869.964 |
| AREAVERT | PAREA3 | 461474.301 | 3784909.871 | 461477.536 | 3784951.935 |
| AREAVERT | PAREA3 | 461535.779 | 3784950.857 | 461536.858 | 3784873.200 |
| AREAVERT | PAREA3 | 461691.092 | 3784817.115 | 461649.028 | 3784748.087 |
| AREAVERT | PAREA3 | 461592.943 | 3784744.851 | 461547.643 | 3784730.829 |
| AREAVERT | PAREA3 | 461499.108 | 3784704.944 | 461482.929 | 3784677.980 |
| AREAVERT | PAREA3 | 461453.808 | 3784635.916 | 461432.237 | 3784600.323 |
| AREAVERT | PAREA3 | 461412.823 | 3784569.045 | 461402.037 | 3784517.274 |
| AREAVERT | PAREA3 | 461376.151 | 3784453.638 | 461365.366 | 3784402.946 |
| AREAVERT | PAREA3 | 461352.423 | 3784372.746 | 461347.030 | 3784332.839 |
| AREAVERT | PAREA3 | 461382.623 | 3784227.140 | 461375.073 | 3784218.511 |
| AREAVERT | PAREA3 | 461322.223 | 3784303.718 | 461251.038 | 3784292.932 |
| AREAVERT | PAREA3 | 461178.774 | 3784445.010 | 461242.409 | 3784468.738 |
| AREAVERT | PAREA3 | 461251.038 | 3784539.923 | 461190.638 | 3784589.537 |
| AREAVERT | PAREA3 | 461112.981 | 3784669.351 | 461061.210 | 3784721.122 |
| AREAVERT | PAREA3 | 461014.832 | 3784737.301 | 461014.832 | 3784946.542 |
| URBANSRC | ALL    |            |             |            |             |

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

\*\* Variable Emission Scenario: "Scenario 1"

\*\* 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 |



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```

EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT PAREA3      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED "15585 Cons PM25.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE FONT_V9_ADJU\FONT_v9.SFC
  PROFFILE FONT_V9_ADJU\FONT_v9.PFL
  SURFDATA 3102 2011
  UAIRDATA 3190 2011
  SITEDATA 99999 2011
  PROFBASE 367.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 24 ALL 1ST "15585 CONS PM25.AD\24H1GALL.PLT" 31
  SUMMFILE "15585 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 1885 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 1885 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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 105 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model 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: 105 Source(s); 1 Source Group(s); and 94 Receptor(s)  
  
with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 VOLUME source(s)  
and: 3 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) = 367.00 ; 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 = 3.7 MB of RAM.**

**\*\*Input Runstream File:**

aermod.inp

**\*\*Output Print File:**

aermod.out

**\*\*Detailed Error/Message File:** 15585 Cons

PM25.err

**\*\*File for Summary of Results:** 15585 Cons

PM25.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

\*\*\*

10:42:58

PAGE 2

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

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

| SOURCE   | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT.    |
|----------|--------|-------------|----------|-----------|----------|----------|----------|----------|
| SOURCE   | URBAN  | EMISSION    | RATE     | AIRCRAFT  | ELEV.    | HEIGHT   | SY       | SZ       |
| ID       | PART.  | (GRAMS/SEC) |          | X         |          |          |          |          |
| (METERS) | SCALAR | VARY        |          | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|          | CATS.  | BY          |          |           |          |          |          |          |
| VOL1     | 0      | 0.13613E-03 | 461693.7 | 3786276.5 | 643.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL2     | 0      | 0.13613E-03 | 461646.2 | 3786333.2 | 642.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL3     | 0      | 0.13613E-03 | 461591.3 | 3786386.2 | 647.8    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL4     | 0      | 0.13613E-03 | 461541.9 | 3786437.5 | 649.2    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL5     | 0      | 0.13613E-03 | 461499.8 | 3786483.2 | 650.3    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL6     | 0      | 0.13613E-03 | 461461.4 | 3786530.8 | 651.5    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL7     | 0      | 0.13613E-03 | 461408.3 | 3786578.3 | 653.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL8     | 0      | 0.13613E-03 | 461452.2 | 3786636.9 | 648.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL9     | 0      | 0.13613E-03 | 461512.6 | 3786686.3 | 645.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL10    | 0      | 0.13613E-03 | 461573.0 | 3786730.2 | 644.9    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL11    | 0      | 0.13613E-03 | 461366.2 | 3786625.9 | 655.6    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |
| VOL12    | 0      | 0.13613E-03 | 461289.4 | 3786679.0 | 662.0    | 3.49     | 19.57    | 3.25     |
| YES      | HRDOW  | NO          |          |           |          |          |          |          |

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

|          |        | NUMBER | EMISSION RATE |          |           | BASE     | RELEASE  | INIT.    | INIT. |
|----------|--------|--------|---------------|----------|-----------|----------|----------|----------|-------|
|          |        | URBAN  | 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            |          |           |          |          |          |       |
| -----    |        |        |               |          |           |          |          |          |       |
| -----    |        |        |               |          |           |          |          |          |       |
| VOL41    |        | 0      | 0.13613E-03   | 461007.3 | 3786998.4 | 675.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL42    |        | 0      | 0.13613E-03   | 461052.2 | 3787052.6 | 669.8    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL43    |        | 0      | 0.13613E-03   | 461134.2 | 3787056.6 | 662.0    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL44    |        | 0      | 0.13613E-03   | 461082.6 | 3786975.9 | 671.8    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL45    |        | 0      | 0.13613E-03   | 461121.0 | 3786917.8 | 665.9    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL46    |        | 0      | 0.13613E-03   | 461167.2 | 3786986.5 | 660.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL47    |        | 0      | 0.13613E-03   | 461253.2 | 3786983.9 | 656.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL48    |        | 0      | 0.13613E-03   | 461208.2 | 3786903.2 | 658.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL49    |        | 0      | 0.13613E-03   | 461234.7 | 3786831.8 | 660.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL50    |        | 0      | 0.13613E-03   | 461291.5 | 3786905.9 | 655.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL51    |        | 0      | 0.13613E-03   | 461374.8 | 3786887.4 | 652.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL52    |        | 0      | 0.13613E-03   | 461317.9 | 3786823.9 | 656.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL53    |        | 0      | 0.13613E-03   | 461287.5 | 3786757.8 | 660.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL54    |        | 0      | 0.13613E-03   | 461373.5 | 3786786.9 | 653.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL55    |        | 0      | 0.13613E-03   | 461455.4 | 3786801.4 | 648.5    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL56    |        | 0      | 0.13613E-03   | 461385.4 | 3786838.4 | 651.8    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL57    |        | 0      | 0.13613E-03   | 461529.4 | 3786768.4 | 645.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL58    |        | 0      | 0.33085E-04   | 462577.2 | 3786719.5 | 633.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL59    |        | 0      | 0.33085E-04   | 462660.5 | 3786693.7 | 632.6    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL60    |        | 0      | 0.33085E-04   | 462744.4 | 3786674.3 | 630.9    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL61    |        | 0      | 0.33085E-04   | 462828.9 | 3786650.9 | 628.3    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL62    |        | 0      | 0.33085E-04   | 462868.8 | 3786625.6 | 626.4    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL63    |        | 0      | 0.33085E-04   | 462848.2 | 3786541.7 | 623.0    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL64    |        | 0      | 0.33085E-04   | 462835.3 | 3786455.5 | 622.0    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL65    |        | 0      | 0.33085E-04   | 462621.2 | 3786659.7 | 631.7    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL66    |        | 0      | 0.33085E-04   | 462660.5 | 3786609.8 | 629.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL67    |        | 0      | 0.33085E-04   | 462684.6 | 3786547.6 | 627.2    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |
| VOL68    |        | 0      | 0.33085E-04   | 462745.6 | 3786589.8 | 627.1    | 3.49     | 19.57    | 3.25  |
| YES      | HRDOW  |        | NO            |          |           |          |          |          |       |

|       |       |             |          |           |       |      |       |      |
|-------|-------|-------------|----------|-----------|-------|------|-------|------|
| VOL69 | 0     | 0.33085E-04 | 462807.2 | 3786567.0 | 625.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL70 | 0     | 0.33085E-04 | 462716.8 | 3786469.0 | 624.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL71 | 0     | 0.33085E-04 | 462751.4 | 3786439.1 | 622.4 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL72 | 0     | 0.33085E-04 | 462835.3 | 3786419.7 | 622.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL73 | 0     | 0.33085E-04 | 462764.4 | 3786515.3 | 623.5 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL74 | 0     | 0.10563E-03 | 461061.9 | 3784936.7 | 654.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL75 | 0     | 0.10563E-03 | 461059.8 | 3784850.6 | 644.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL76 | 0     | 0.10563E-03 | 461057.6 | 3784762.3 | 642.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL77 | 0     | 0.10563E-03 | 461141.6 | 3784805.4 | 641.6 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL78 | 0     | 0.10563E-03 | 461139.5 | 3784721.4 | 639.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL79 | 0     | 0.10563E-03 | 461225.6 | 3784805.4 | 636.6 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |
| VOL80 | 0     | 0.10563E-03 | 461225.6 | 3784723.6 | 634.0 | 3.49 | 19.57 | 3.25 |
| YES   | HRDOW | NO          |          |           |       |      |       |      |

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

| *** VOLUME SOURCE DATA *** |        |        |             |          |           |          |          |          |       |
|----------------------------|--------|--------|-------------|----------|-----------|----------|----------|----------|-------|
|                            |        | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT. |
|                            |        | URBAN  | 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          |          |           |          |          |          |       |
| -----                      |        |        |             |          |           |          |          |          |       |
| -----                      |        |        |             |          |           |          |          |          |       |
| VOL81                      |        | 0      | 0.10563E-03 | 461223.7 | 3784635.4 | 631.4    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL82                      |        | 0      | 0.10563E-03 | 461156.8 | 3784658.7 | 636.7    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL83                      |        | 0      | 0.10563E-03 | 461312.3 | 3784885.8 | 641.4    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL84                      |        | 0      | 0.10563E-03 | 461310.8 | 3784801.8 | 632.5    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL85                      |        | 0      | 0.10563E-03 | 461312.3 | 3784714.7 | 629.8    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL86                      |        | 0      | 0.10563E-03 | 461309.2 | 3784630.7 | 628.2    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL87                      |        | 0      | 0.10563E-03 | 461284.3 | 3784548.3 | 629.4    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL88                      |        | 0      | 0.10563E-03 | 461369.9 | 3784543.6 | 624.3    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL89                      |        | 0      | 0.10563E-03 | 461289.0 | 3784462.7 | 624.5    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL90                      |        | 0      | 0.10563E-03 | 461225.2 | 3784422.3 | 627.2    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |
| VOL91                      |        | 0      | 0.10563E-03 | 461371.4 | 3784458.0 | 621.3    | 3.49     | 19.57    | 3.25  |
| YES                        | HRDOW  |        | NO          |          |           |          |          |          |       |

|        |       |             |          |           |       |      |       |      |
|--------|-------|-------------|----------|-----------|-------|------|-------|------|
| VOL92  | 0     | 0.10563E-03 | 461270.3 | 3784338.3 | 620.3 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL93  | 0     | 0.10563E-03 | 461310.8 | 3784375.6 | 619.3 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL94  | 0     | 0.10563E-03 | 461396.3 | 3784627.6 | 624.3 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL95  | 0     | 0.10563E-03 | 461397.9 | 3784711.6 | 626.6 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL96  | 0     | 0.10563E-03 | 461396.3 | 3784797.2 | 630.2 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL97  | 0     | 0.10563E-03 | 461483.4 | 3784714.7 | 622.9 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL98  | 0     | 0.10563E-03 | 461481.9 | 3784795.6 | 626.2 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL99  | 0     | 0.10563E-03 | 461486.6 | 3784879.6 | 631.1 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL100 | 0     | 0.10563E-03 | 461569.0 | 3784776.9 | 621.4 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL101 | 0     | 0.10563E-03 | 461643.7 | 3784787.8 | 622.8 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |
| VOL102 | 0     | 0.10563E-03 | 461562.8 | 3784825.2 | 625.1 | 3.49 | 19.57 | 3.25 |
| YES    | HRDOW | NO          |          |           |       |      |       |      |

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

\*\*\* AREAPOLY SOURCE DATA \*\*\*

| SOURCE   | NUMBER      | EMISSION    | RATE       | LOCATION OF AREA | BASE     | RELEASE  | NUMBER   | INIT.     |
|----------|-------------|-------------|------------|------------------|----------|----------|----------|-----------|
| SOURCE   | URBAN       | EMISSION    | RATE       | AIRCRAFT         |          |          |          |           |
| ID       | PART.       | (GRAMS/SEC  |            | X                | Y        | ELEV.    | HEIGHT   | OF VERTS. |
| (METERS) | SCALAR VARY | CATS.       | /METER**2) | (METERS)         | (METERS) | (METERS) | (METERS) | SZ        |
| PAREA1   | 0           | 0.61174E-07 | 460528.4   | 3787418.3        | 691.8    | 0.00     | 13       | 1.00      |
| YES      | HRDOW       | NO          |            |                  |          |          |          |           |
| PAREA2   | 0           | 0.66102E-07 | 462517.9   | 3786759.8        | 633.0    | 0.00     | 5        | 1.00      |
| YES      | HRDOW       | NO          |            |                  |          |          |          |           |
| PAREA3   | 0           | 0.81210E-07 | 461036.4   | 3784972.4        | 658.9    | 0.00     | 42       | 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 , VOL5 , VOL6 , |
| VOL7        | , VOL8 ,                                  |

PAREA3

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

| URBAN ID | URBAN POP | SOURCE IDs |   |       |   |       |   |       |   |       |   |
|----------|-----------|------------|---|-------|---|-------|---|-------|---|-------|---|
| -----    | -----     | -----      |   |       |   |       |   |       |   |       |   |
| VOL8     | 2035210.  | VOL1       | , | VOL2  | , | VOL3  | , | VOL4  | , | VOL5  | , |
|          | VOL6      | , VOL7     | , |       |   |       |   |       |   |       |   |
|          | , VOL9    | , VOL10    | , | VOL11 | , | VOL12 | , | VOL13 | , | VOL14 | , |
|          | VOL15     | , VOL16    | , |       |   |       |   |       |   |       |   |
|          | VOL17     | , VOL18    | , | VOL19 | , | VOL20 | , | VOL21 | , | VOL22 | , |
|          | VOL23     | , VOL24    | , |       |   |       |   |       |   |       |   |
|          | VOL25     | , VOL26    | , | VOL27 | , | VOL28 | , | VOL29 | , | VOL30 | , |
|          | VOL31     | , VOL32    | , |       |   |       |   |       |   |       |   |
|          | VOL33     | , VOL34    | , | VOL35 | , | VOL36 | , | VOL37 | , | VOL38 | , |

PAREA3

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

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*** MODELOPTs:  ReqDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ  U*
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\* 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 |
| 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

| DATA OF WEEK OF 10/10/2019 |           |           |           |           |           |  |
|----------------------------|-----------|-----------|-----------|-----------|-----------|--|
| 1                          | 2         | 3         | 4         | 5         | 6         |  |
| .0000E+00                  | .0000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .0000E+00 |  |
| 7                          | 8         | 9         | 10        | 11        | 12        |  |
| .0000E+00                  | .0000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .0000E+00 |  |
| 13                         | 14        | 15        | 16        | 17        | 18        |  |
| .0000E+00                  | .0000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .0000E+00 |  |
| 19                         | 20        | 21        | 22        | 23        | 24        |  |
| .0000E+00                  | .0000E+00 | .0000E+00 | .0000E+00 | .0000E+00 | .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:  ReqDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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\* 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 |
| 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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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 = VOL5 ; 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
```

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

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

| SOURCE ID = VOL6 |        |        |        | ; SOURCE TYPE = VOLUME |        |      |        |      |        |      |        |
|------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR             | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| SCALAR           | HOUR   | SCALAR | HOUR   | SCALAR                 |        |      |        |      |        |      |        |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

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

| SOURCE ID = VOL7 |        |        |        | ; SOURCE TYPE = VOLUME |        |      |        |      |        |      |        |
|------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR             | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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 = VOL8 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL9 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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10:42:58

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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 = VOL10 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL11 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL12 ; 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

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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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                                ***
                                10:42:58

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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 = VOL13 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
***
                                ***
                                10:42:58

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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 = VOL14 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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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 = VOL15 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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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 = VOL16 ; SOURCE TYPE = VOLUME :

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

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 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL17      |                | ; SOURCE TYPE = VOLUME |                |                |                |                |                |                |                |                |                |
|------------------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR         | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR | HOUR<br>SCALAR | SCALAR<br>HOUR |
| DAY OF WEEK = WEEKDAY  |                |                        |                |                |                |                |                |                |                |                |                |
| 1 .0000E+00            | 2 .0000E+00    | 3 .0000E+00            | 4 .0000E+00    | 5 .0000E+00    | 6              | 7 .0000E+00    | 8 .0000E+00    | 9 .1000E+01    | 10 .1000E+01   | 11 .1000E+01   | 12 .1000E+01   |
| 13 .1000E+01           | 14             | 15 .1000E+01           | 16 .1000E+01   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 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              | 7 .0000E+00    | 8 .0000E+00    | 9 .0000E+00    | 10 .0000E+00   | 11 .0000E+00   | 12 .0000E+00   |
| 13 .0000E+00           | 14             | 15 .0000E+00           | 16 .0000E+00   | 17 .0000E+00   | 18 .0000E+00   | 19 .0000E+00   | 20 .0000E+00   | 21 .0000E+00   | 22             | 23 .0000E+00   | 24 .0000E+00   |

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 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 10:42:58

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

\* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK  
(HRDOW) \*SOURCE ID = VOL18 ; 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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 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL19 ; 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 |           |   |           |   |           |   |

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:42:58

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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) \*

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SOURCE ID = VOL20 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:42:58

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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) \*

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SOURCE ID = VOL21 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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) \*

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SOURCE ID = VOL22      ; 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

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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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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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 = VOL23      ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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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 = VOL24 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

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(HRDOW) \*

SOURCE ID = VOL25 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL26 ; 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 = VOL27 ; 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 = VOL28 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:42:58

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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 = VOL29 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
| -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |

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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 SP\15585 Ops H \*\*\* 04/16/24  
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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 = VOL30 ; SOURCE TYPE = VOLUME :

| HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   | SCALAR | HOUR   |
| -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |

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 |  |



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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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) \*

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SOURCE ID = VOL31 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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 = VOL32 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL33 ; 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 = VOL34 ; 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 = VOL35 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
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\*\*\* 10:42:58

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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 = VOL36 ; 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 = VOL37 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:42:58

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PAGE 45
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL38 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***
*** 10:42:58

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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 = VOL39 ; 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

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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PAGE 47
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL40 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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PAGE 48
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

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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 = VOL43 ; 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 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24\*\*\* AERMET - VERSION 16216 \*\*\*  
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10:42:58

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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 = VOL44 ; 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 |  |
|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|--|



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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** *** 10:42:58
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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 = VOL45 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** *** 10:42:58
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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 = VOL46 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:42:58
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                                PAGE 54
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL47 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:42:58
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                                PAGE 55
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = VOL48 ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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) \*

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SOURCE ID = VOL49      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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 = VOL50 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\* 10:42:58

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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 = VOL51 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL52 ; 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: RegDEFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

SOURCE ID = VOL53 ; 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 |

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:42:58
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                                PAGE 61
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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```
SOURCE ID = VOL54 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:42:58
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                                PAGE 62
*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *
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```
SOURCE ID = VOL55 ; 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
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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
                                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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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) \*

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SOURCE ID = VOL56 ; 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

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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

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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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*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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) \*

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SOURCE ID = VOL57 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -

```

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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
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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 = VOL58 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58



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

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

SOURCE ID = VOL59 ; 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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\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL60 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
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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 = VOL61 ; 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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\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL62 ; 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

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  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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:42:58

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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 = VOL63      ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***      10:42:58

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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 = VOL64      ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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 = VOL65 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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) *
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SOURCE ID = VOL66 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL67 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL68 ; 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 |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

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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 = VOL69 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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 = VOL70 ; 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
```

```
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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 = VOL71 ; 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
```

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |    |           |    |           |    |           |    |           |

| SOURCE ID = VOL72 |        |        |        | ; SOURCE TYPE = VOLUME |        | :    |        |      |        |      |        |
|-------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR              | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| SCALAR            | HOUR   | SCALAR | HOUR   | SCALAR                 |        |      |        |      |        |      |        |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

|    |           |    |           |    |           |    |           |    |           |    |           |
|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|
| 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 |

| SOURCE ID = VOL73 |        |        |        | ; SOURCE TYPE = VOLUME |        |      |        |      |        |      |        |
|-------------------|--------|--------|--------|------------------------|--------|------|--------|------|--------|------|--------|
| HOUR              | SCALAR | HOUR   | SCALAR | HOUR                   | SCALAR | HOUR | SCALAR | HOUR | SCALAR | HOUR | SCALAR |
| 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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 = VOL74 ; 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
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
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10:42:58

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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 = VOL75 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL76 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL77 ; 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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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL78 ; 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

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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
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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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) *
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SOURCE ID = VOL79 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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) *
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SOURCE ID = VOL80 ; 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
```

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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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 = VOL81 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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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 = VOL82 ; SOURCE TYPE = VOLUME :

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

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 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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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 = VOL83      |              | ; SOURCE TYPE = VOLUME |              | :            |        | HOUR         |              | SCALAR      |              | HOUR         |              | SCALAR       |        | HOUR         |              |
|------------------------|--------------|------------------------|--------------|--------------|--------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------|--------------|--------------|
| 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      | 7 .0000E+00  | 8 .0000E+00  | 9 .1000E+01 | 10 .1000E+01 | 11 .1000E+01 | 12 .1000E+01 | 13 .1000E+01 | 14     | 15 .1000E+01 | 16 .1000E+01 |
| 17 .0000E+00           | 18 .0000E+00 | 19 .0000E+00           | 20 .0000E+00 | 21 .0000E+00 | 22     | 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      | 7 .0000E+00  | 8 .0000E+00  | 9 .0000E+00 | 10 .0000E+00 | 11 .0000E+00 | 12 .0000E+00 | 13 .0000E+00 | 14     | 15 .0000E+00 | 16 .0000E+00 |
| 17 .0000E+00           | 18 .0000E+00 | 19 .0000E+00           | 20 .0000E+00 | 21 .0000E+00 | 22     | 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      | 7 .0000E+00  | 8 .0000E+00  | 9 .0000E+00 | 10 .0000E+00 | 11 .0000E+00 | 12 .0000E+00 | 13 .0000E+00 | 14     | 15 .0000E+00 | 16 .0000E+00 |
| 17 .0000E+00           | 18 .0000E+00 | 19 .0000E+00           | 20 .0000E+00 | 21 .0000E+00 | 22     | 23 .0000E+00 | 24 .0000E+00 |             |              |              |              |              |        |              |              |

 \*\*\* AERMOD - VERSION 23132 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\*      04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* 10:42:58

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

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

SOURCE ID = VOL84 ; 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 |              |              |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24  
 \*\*\* AERMET - VERSION 16216 \*\*\*  
 \*\*\* 10:42:58

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

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

SOURCE ID = VOL85 ; 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 |             |             |   |

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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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:42:58

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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) \*

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SOURCE ID = VOL86 ; 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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*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:42:58

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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) \*

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SOURCE ID = VOL87 ; 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

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DAY OF WEEK = SUNDAY

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DAY OF WEEK = WEEKDAY

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

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DAY OF WEEK = WEEKDAY

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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\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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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 = VOL90 ; 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
*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58

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

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

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(HRDOW) \*

SOURCE ID = VOL91 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL92 ; 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 |           |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen

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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 = VOL93 ; 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 |           |    |           |    |           |    |  |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen

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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 = VOL94 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL95 ; 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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL96 ; 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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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) \*

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SOURCE ID = VOL97 ; 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

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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

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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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*** AERMOD - VERSION 23132 *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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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) \*

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SOURCE ID = VOL98 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:42:58

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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 = VOL99 ; 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
*** AERMOD - VERSION 23132 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
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*** 10:42:58

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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 = VOL100 ; 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 |    |           |    |           |    |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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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 = VOL101 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 = VOL102 ; 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  
\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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

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.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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
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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) *
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SOURCE ID = PAREA2 ; 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\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H *** 04/16/24
*** AERMET - VERSION 16216 ***
*** 10:42:58
```

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PAGE 112
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

```
SOURCE ID = PAREA3 ; 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 |    |           |    |           |    |  |

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SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* 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)

|                                             |                                             |
|---------------------------------------------|---------------------------------------------|
| ( 463154.3, 3786819.6, 631.4, 1734.0, 2.0); | ( 463167.5, 3786865.5, 633.6, 1734.0, 2.0); |
| ( 463147.6, 3786873.2, 634.1, 1734.0, 2.0); | ( 463129.9, 3786877.4, 634.4, 1734.0, 2.0); |
| ( 463110.0, 3786886.9, 635.4, 1734.0, 2.0); | ( 463059.0, 3786966.9, 641.4, 1734.0, 2.0); |
| ( 463074.9, 3787087.9, 646.7, 1734.0, 2.0); | ( 463102.5, 3787076.0, 645.0, 1734.0, 2.0); |
| ( 462919.9, 3787058.3, 650.6, 1734.0, 2.0); | ( 463042.0, 3787098.7, 649.3, 1734.0, 2.0); |
| ( 462998.1, 3787106.0, 651.7, 1734.0, 2.0); | ( 462944.0, 3787123.4, 653.8, 1734.0, 2.0); |
| ( 462850.6, 3787079.7, 652.9, 1734.0, 2.0); | ( 462807.5, 3787091.0, 653.6, 1734.0, 2.0); |
| ( 462821.9, 3787159.9, 658.2, 1734.0, 2.0); | ( 462755.2, 3787105.3, 654.6, 1734.0, 2.0); |
| ( 462743.8, 3787181.3, 659.7, 1734.0, 2.0); | ( 462870.3, 3787147.1, 657.4, 1734.0, 2.0); |
| ( 462890.0, 3787138.7, 656.5, 1734.0, 2.0); | ( 462725.4, 3787114.5, 655.2, 1734.0, 2.0); |
| ( 462685.8, 3787125.8, 655.9, 1734.0, 2.0); | ( 462656.2, 3787132.7, 656.5, 1734.0, 2.0); |
| ( 462632.9, 3787123.9, 655.6, 1734.0, 2.0); | ( 462595.9, 3787152.0, 658.4, 1734.0, 2.0); |
| ( 462571.7, 3787160.3, 658.8, 1734.0, 2.0); | ( 462473.7, 3787233.0, 657.1, 1734.0, 2.0); |
| ( 462534.0, 3787244.6, 659.9, 1734.0, 2.0); | ( 462400.1, 3787275.4, 659.0, 1734.0, 2.0); |
| ( 462229.2, 3787434.2, 674.5, 1734.0, 2.0); | ( 462257.0, 3787342.4, 668.1, 1734.0, 2.0); |
| ( 462128.4, 3787527.6, 684.6, 1734.0, 2.0); | ( 462183.2, 3787452.4, 675.8, 1734.0, 2.0); |
| ( 462022.5, 3787623.1, 687.6, 1734.0, 2.0); | ( 461918.3, 3787709.0, 694.2, 1734.0, 2.0); |
| ( 462038.5, 3787667.1, 695.0, 1734.0, 2.0); | ( 461424.9, 3788158.1, 731.4, 1734.0, 2.0); |



```

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SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                     *** 10:42:58

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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,      10.80,
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***      04/16/24
*** AERMET - VERSION 16216 ***
***
***
10:42:58

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

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

```
Surface file:
FONT_V9_ADJU\FONT_v9.SFC
Version: 16216
Profile file:
FONT_V9_ADJU\FONT_v9.PFL
Surface format:
FREE
```

Profile format:  
FREE

|                      |         |                        |      |
|----------------------|---------|------------------------|------|
| Surface station no.: | 3102    | Upper air station no.: | 3190 |
| Name:                | UNKNOWN | Name:                  |      |
| UNKNOWN              |         |                        |      |
| Year:                | 2011    | Year:                  | 2011 |

## 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     |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 01  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 69.  |    |    |     | 9.1 | 276.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 02  | -23.8 | 0.239 | -9.000 | -9.000 | -999. | 281.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 52.  |    |    |     | 9.1 | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 03  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 32.  |    |    |     | 9.1 | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 04  | -1.4  | 0.067 | -9.000 | -9.000 | -999. | 57.   | 18.3  | 0.25 | 2.82 | 1.00  | 0.40   |     |    |
| 27.  |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 05  | -18.6 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 51.  |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 06  | -29.7 | 0.296 | -9.000 | -9.000 | -999. | 387.  | 96.6  | 0.25 | 2.82 | 1.00  | 2.70   |     |    |
| 53.  |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 07  | -24.0 | 0.239 | -9.000 | -9.000 | -999. | 282.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 70.  |    |    |     | 9.1 | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 08  | -8.4  | 0.138 | -9.000 | -9.000 | -999. | 127.  | 27.3  | 0.25 | 2.82 | 0.54  | 1.30   |     |    |
| 72.  |    |    |     | 9.1 | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 09  | 44.3  | 0.280 | 0.571  | 0.005  | 147.  | 356.  | -43.5 | 0.25 | 2.82 | 0.32  | 2.20   |     |    |
| 67.  |    |    |     | 9.1 | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 10  | 122.7 | 0.264 | 0.952  | 0.005  | 247.  | 326.  | -13.2 | 0.25 | 2.82 | 0.25  | 1.80   |     |    |
| 83.  |    |    |     | 9.1 | 279.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 11  | 179.8 | 0.316 | 1.733  | 0.005  | 1017. | 426.  | -15.4 | 0.25 | 2.82 | 0.22  | 2.20   |     |    |
| 58.  |    |    |     | 9.1 | 282.0 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 12  | 206.0 | 0.320 | 1.940  | 0.008  | 1244. | 435.  | -14.0 | 0.25 | 2.82 | 0.21  | 2.20   |     |    |
| 115. |    |    |     | 9.1 | 283.1 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 13  | 132.6 | 0.214 | 1.733  | 0.009  | 1377. | 243.  | -6.5  | 0.25 | 2.82 | 0.21  | 1.30   |     |    |
| 147. |    |    |     | 9.1 | 284.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 14  | 147.0 | 0.216 | 1.818  | 0.009  | 1431. | 242.  | -6.0  | 0.25 | 2.82 | 0.23  | 1.30   |     |    |
| 219. |    |    |     | 9.1 | 284.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 15  | 104.0 | 0.208 | 1.633  | 0.009  | 1468. | 228.  | -7.6  | 0.25 | 2.82 | 0.26  | 1.30   |     |    |
| 126. |    |    |     | 9.1 | 285.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 16  | 26.4  | 0.140 | 1.037  | 0.009  | 1477. | 127.  | -9.1  | 0.25 | 2.82 | 0.35  | 0.90   |     |    |
| 151. |    |    |     | 9.1 | 284.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 17  | -9.0  | 0.137 | -9.000 | -9.000 | -999. | 121.  | 24.9  | 0.25 | 2.82 | 0.63  | 1.30   |     |    |
| 69.  |    |    |     | 9.1 | 283.1 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 18  | -33.4 | 0.342 | -9.000 | -9.000 | -999. | 481.  | 129.0 | 0.25 | 2.82 | 1.00  | 3.10   |     |    |
| 81.  |    |    |     | 9.1 | 281.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 19  | -33.6 | 0.342 | -9.000 | -9.000 | -999. | 481.  | 128.9 | 0.25 | 2.82 | 1.00  | 3.10   |     |    |
| 51.  |    |    |     | 9.1 | 279.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 20  | -23.6 | 0.239 | -9.000 | -9.000 | -999. | 287.  | 63.1  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 77.  |    |    |     | 9.1 | 278.8 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 21  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 53.  |    |    |     | 9.1 | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 22  | -23.7 | 0.239 | -9.000 | -9.000 | -999. | 281.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 58.  |    |    |     | 9.1 | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 23  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 64.  |    |    |     | 9.1 | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 24  | -4.5  | 0.094 | -9.000 | -9.000 | -999. | 74.   | 16.3  | 0.25 | 2.82 | 1.00  | 0.90   |     |    |
| 52.  |    |    |     | 9.1 | 277.0 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |

## First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 11 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 276.5   | 99.0   | -99.00 | -99.00 |
| 11 | 01 | 01 | 01 | 9.1    | 1 | 69.   | 1.80   | -999.0  | 99.0   | -99.00 | -99.00 |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
 SP\15585 Ops H \*\*\* 04/16/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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10:42:58

\*\*\* 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 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

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

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

| X-COORD (M)<br>(M) | Y-COORD (M)<br>CONC (YYMMDDHH) | CONC<br>(YYMMDDHH) | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|--------------------|--------------------------------|--------------------|------------|-------------|---------|
| 463154.33          | 3786819.61                     | 0.01893            | (11111824) | 463167.45   |         |
| 3786865.52         | 0.01749                        | (15120924)         |            |             |         |
| 463147.58          | 3786873.25                     | 0.01796            | (15120924) | 463129.92   |         |
| 3786877.44         | 0.01827                        | (15120924)         |            |             |         |
| 463110.04          | 3786886.94                     | 0.01921            | (16011524) | 463059.03   |         |
| 3786966.87         | 0.01718                        | (16011524)         |            |             |         |
| 463074.93          | 3787087.88                     | 0.01392            | (15122124) | 463102.53   |         |
| 3787075.96         | 0.01330                        | (16011524)         |            |             |         |
| 462919.92          | 3787058.29                     | 0.01520            | (15122124) | 463042.03   |         |
| 3787098.70         | 0.01456                        | (15122124)         |            |             |         |
| 462998.09          | 3787105.99                     | 0.01467            | (15122124) | 462943.99   |         |
| 3787123.43         | 0.01401                        | (15122124)         |            |             |         |
| 462850.58          | 3787079.71                     | 0.01376            | (15122124) | 462807.52   |         |
| 3787090.97         | 0.01286                        | (15122124)         |            |             |         |
| 462821.88          | 3787159.87                     | 0.01180            | (15122124) | 462755.22   |         |
| 3787105.29         | 0.01176                        | (15122124)         |            |             |         |
| 462743.77          | 3787181.31                     | 0.01056            | (15122124) | 462870.28   |         |
| 3787147.15         | 0.01269                        | (15122124)         |            |             |         |
| 462889.99          | 3787138.70                     | 0.01310            | (15122124) | 462725.43   |         |
| 3787114.51         | 0.01118                        | (15122124)         |            |             |         |
| 462685.82          | 3787125.77                     | 0.01070            | (15122124) | 462656.17   |         |
| 3787132.72         | 0.01060                        | (15122124)         |            |             |         |
| 462632.89          | 3787123.90                     | 0.01068            | (15122124) | 462595.92   |         |
| 3787152.05         | 0.01076                        | (15122124)         |            |             |         |
| 462571.70          | 3787160.31                     | 0.01085            | (15122124) | 462473.70   |         |
| 3787233.03         | 0.01089                        | (15122124)         |            |             |         |
| 462534.01          | 3787244.58                     | 0.01077            | (15122124) | 462400.07   |         |
| 3787275.41         | 0.01075                        | (15122124)         |            |             |         |
| 462229.16          | 3787434.24                     | 0.01212            | (16120524) | 462256.97   |         |
| 3787342.44         | 0.01177m                       | (13120224)         |            |             |         |
| 462128.43          | 3787527.59                     | 0.01278            | (16120524) | 462183.16   |         |
| 3787452.38         | 0.01241                        | (16120524)         |            |             |         |
| 462022.45          | 3787623.08                     | 0.01332            | (16120524) | 461918.34   |         |
| 3787709.00         | 0.01335                        | (16120524)         |            |             |         |
| 462038.54          | 3787667.10                     | 0.01302            | (16120524) | 461424.87   |         |
| 3788158.12         | 0.00949                        | (11122924)         |            |             |         |
| 461926.79          | 3788065.01                     | 0.01140            | (16120524) | 461937.75   |         |
| 3787798.61         | 0.01273                        | (16120524)         |            |             |         |
| 461956.17          | 3787956.45                     | 0.01194            | (16120524) | 461303.41   |         |
| 3788188.53         | 0.00933                        | (11122924)         |            |             |         |
| 461132.48          | 3788399.44                     | 0.00815            | (11122924) | 461058.72   |         |
| 3788731.50         | 0.00669                        | (15011224)         |            |             |         |

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***                  04/16/24
*** AERMET - VERSION 16216 ***
***                                     ***

```

```
*** MODELOPTs:  ReqDEFAULT  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          , VOL5          ,
VOL7          , VOL8          , VOL9          , VOL10         ,
VOL12         , VOL13         ,
VOL15         , VOL16         , VOL17         , VOL18         ,
VOL20         , VOL21         ,
VOL23         , VOL24         , VOL25         , VOL26         ,
VOL28         ,

```

\*\*\* 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) |
|-------------|-------------|------|------------|-------------|-------------|------|------------|
|-------------|-------------|------|------------|-------------|-------------|------|------------|



|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 459503.27  | 3782889.01 | 0.00499    | (13010924) | 459388.10 |
| 3783065.74 | 0.00520    | (12120324) |            |           |
| 459382.29  | 3783016.73 | 0.00508    | (12120324) | 459350.12 |
| 3783155.49 | 0.00533    | (12120324) |            |           |
| 459320.33  | 3783264.86 | 0.00527    | (12120324) | 463904.58 |
| 3786591.83 | 0.00793    | (15101424) |            |           |
| 466077.15  | 3784031.33 | 0.00306    | (16122724) | 466200.85 |
| 3784253.98 | 0.00331    | (16122724) |            |           |
| 465960.20  | 3784644.19 | 0.00319    | (16122724) | 466195.23 |
| 3784596.96 | 0.00317    | (16122724) |            |           |
| 462710.50  | 3782876.40 | 0.00404    | (13010124) | 462069.84 |
| 3783383.52 | 0.00900    | (15122224) |            |           |
| 462277.17  | 3783298.31 | 0.00673    | (15122224) | 461797.05 |
| 3783468.72 | 0.00987    | (15122224) |            |           |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN  
MICROGRAMS/M<sup>3</sup> \*\*

| GROUP ID                   | DATE                      | NETWORK                |
|----------------------------|---------------------------|------------------------|
| ZELEV, ZHILL, ZFLAG)       | (YYMMDDHH)                | RECEPTOR (XR, YR,      |
| OF TYPE                    | AVERAGE CONC              | GRID-ID                |
| ALL HIGH 1ST HIGH VALUE IS | 0.06801 ON 16010624: AT ( | 462814.44, 3786754.18, |
| 633.19, 1734.00, 2.00) DC  |                           |                        |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/16/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 10:42:58

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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 | 7 Warning Message(s)                         |
| A Total of | 838 Informational Message(s)                 |
| A Total of | 43848 Hours Were Processed                   |
| A Total of | 40 Calm Hours Identified                     |
| A Total of | 798 Missing Hours Identified ( 1.82 Percent) |

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

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

|         |       |                                                           |            |
|---------|-------|-----------------------------------------------------------|------------|
| ME W186 | 1885  | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50       |
| ME W187 | 1885  | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |            |
| MX W438 | 8800  | METQA: Convective Velocity Data Out-of-Range. KURDAT =    | 12010216   |
| MX W438 | 11536 | METQA: Convective Velocity Data Out-of-Range. KURDAT =    | 12042516   |
| MX W420 | 16779 | METQA: Wind Speed Out-of-Range. KURDAT =                  | 12113003   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: | 15010101   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: | 1 year gap |

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

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/15/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops CO\15585 Ops CO.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID CO
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Ops CO.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870
LOCATION VOL29     VOLUME      460639.798    3787451.816    679.140

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|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |
| LOCATION VOL95 | VOLUME | 461397.891 | 3784711.595 | 626.590 |

|                         |        |              |            |             |         |
|-------------------------|--------|--------------|------------|-------------|---------|
| LOCATION                | VOL96  | VOLUME       | 461396.335 | 3784797.151 | 630.160 |
| LOCATION                | VOL97  | VOLUME       | 461483.447 | 3784714.706 | 622.870 |
| LOCATION                | VOL98  | VOLUME       | 461481.891 | 3784795.596 | 626.210 |
| LOCATION                | VOL99  | VOLUME       | 461486.558 | 3784879.596 | 631.090 |
| LOCATION                | VOL100 | VOLUME       | 461569.003 | 3784776.929 | 621.370 |
| LOCATION                | VOL101 | VOLUME       | 461643.670 | 3784787.818 | 622.790 |
| LOCATION                | VOL102 | VOLUME       | 461562.781 | 3784825.151 | 625.070 |
| ** Source Parameters ** |        |              |            |             |         |
| SRCPARAM                | VOL1   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL2   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL3   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL4   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL5   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL6   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL7   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL8   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL9   | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL10  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL11  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL12  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL13  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL14  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL15  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL16  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL17  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL18  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL19  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL20  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL21  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL22  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL23  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL24  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL25  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL26  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL27  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL28  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL29  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL30  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL31  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL32  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL33  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL34  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL35  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL36  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL37  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL38  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL39  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL40  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL41  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL42  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL43  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL44  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL45  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL46  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL47  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL48  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL49  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL50  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL51  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL52  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL53  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL54  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL55  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL56  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL57  | 0.0016946715 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL58  | 0.0208879286 | 3.490      | 19.572      | 3.250   |

|          |        |              |       |        |       |
|----------|--------|--------------|-------|--------|-------|
| SRCPARAM | VOL59  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL60  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL61  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL62  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL63  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL64  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL65  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL66  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL67  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL68  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL69  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL70  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL71  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL72  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL73  | 0.0208879286 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL74  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL75  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL76  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL77  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL78  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL79  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL80  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL81  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL82  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL83  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL84  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL85  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL86  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL87  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL88  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL89  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL90  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL91  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL92  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL93  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL94  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL95  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL96  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL97  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL98  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL99  | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL100 | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL101 | 0.0319341628 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL102 | 0.0319341628 | 3.490 | 19.572 | 3.250 |

URBANSRC ALL

SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

\*\*\*\*\*

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RE STARTING

INCLUDED "15585 Ops C0.rou"

RE FINISHED

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\*\* AERMOD Meteorology Pathway

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ME STARTING

SURFFILE FONT\_V9\_ADJU\FONT\_v9.SFC

PROFFILE FONT\_V9\_ADJU\FONT\_v9.PFL

SURFDATA 3102 2011

UAIRDATA 3190 2011  
SITEDATA 99999 2011  
PROFBASE 367.0 METERS  
ME FINISHED

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\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
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OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
RECTABLE 8 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "15585 OPS CO.AD\01H1GALL.PLT" 31  
PLOTFILE 8 ALL 1ST "15585 OPS CO.AD\08H1GALL.PLT" 32  
SUMMFILE "15585 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 267 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 267 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
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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 102 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model 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: 102 Source(s); 1 Source Group(s); and 94 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 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) = 367.00 ; 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15585 Ops

CO.err

\*\*File for Summary of Results: 15585 Ops

CO.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
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\*\*\* AERMET - VERSION 16216 \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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



| SOURCE<br>SOURCE<br>ID<br>(METERS) | SCALAR<br>VARY<br>CATS. | NUMBER      | EMISSION    | RATE      | AIRCRAFT<br>X | Y    | BASE     | RELEASE  | INIT.    | INIT.    |
|------------------------------------|-------------------------|-------------|-------------|-----------|---------------|------|----------|----------|----------|----------|
|                                    |                         | URBAN       | EMISSION    | RATE      |               |      | ELEV.    | HEIGHT   | SY       | SZ       |
|                                    |                         | PART.       | (GRAMS/SEC) |           |               |      | (METERS) | (METERS) | (METERS) | (METERS) |
|                                    |                         | BY          |             |           |               |      |          |          |          |          |
| -----                              |                         |             |             |           |               |      |          |          |          |          |
| -----                              |                         |             |             |           |               |      |          |          |          |          |
| VOL1                               | 0                       | 0.16947E-02 | 461693.7    | 3786276.5 | 643.6         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL2                               | 0                       | 0.16947E-02 | 461646.2    | 3786333.2 | 642.8         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL3                               | 0                       | 0.16947E-02 | 461591.3    | 3786386.2 | 647.8         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL4                               | 0                       | 0.16947E-02 | 461541.9    | 3786437.5 | 649.2         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL5                               | 0                       | 0.16947E-02 | 461499.8    | 3786483.2 | 650.3         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL6                               | 0                       | 0.16947E-02 | 461461.4    | 3786530.8 | 651.5         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL7                               | 0                       | 0.16947E-02 | 461408.3    | 3786578.3 | 653.9         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL8                               | 0                       | 0.16947E-02 | 461452.2    | 3786636.9 | 648.0         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL9                               | 0                       | 0.16947E-02 | 461512.6    | 3786686.3 | 645.6         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL10                              | 0                       | 0.16947E-02 | 461573.0    | 3786730.2 | 644.9         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL11                              | 0                       | 0.16947E-02 | 461366.2    | 3786625.9 | 655.6         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL12                              | 0                       | 0.16947E-02 | 461289.4    | 3786679.0 | 662.0         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL13                              | 0                       | 0.16947E-02 | 461373.6    | 3786706.4 | 654.4         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL14                              | 0                       | 0.16947E-02 | 461441.3    | 3786713.7 | 647.9         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL15                              | 0                       | 0.16947E-02 | 461234.5    | 3786728.4 | 667.8         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL16                              | 0                       | 0.16947E-02 | 461199.7    | 3786774.1 | 667.5         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL17                              | 0                       | 0.16947E-02 | 461152.2    | 3786821.7 | 666.4         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL18                              | 0                       | 0.16947E-02 | 461086.3    | 3786863.8 | 668.2         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL19                              | 0                       | 0.16947E-02 | 461038.7    | 3786904.0 | 673.2         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL20                              | 0                       | 0.16947E-02 | 460978.4    | 3786938.8 | 680.5         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL21                              | 0                       | 0.16947E-02 | 460927.1    | 3786993.7 | 681.6         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL22                              | 0                       | 0.16947E-02 | 460877.7    | 3787050.4 | 684.4         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL23                              | 0                       | 0.16947E-02 | 460837.5    | 3787107.1 | 683.9         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL24                              | 0                       | 0.16947E-02 | 460804.5    | 3787160.2 | 681.6         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL25                              | 0                       | 0.16947E-02 | 460749.5    | 3787211.2 | 680.3         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL26                              | 0                       | 0.16947E-02 | 460704.6    | 3787274.7 | 677.7         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL27                              | 0                       | 0.16947E-02 | 460655.7    | 3787332.8 | 679.4         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL28                              | 0                       | 0.16947E-02 | 460593.5    | 3787398.9 | 683.9         | 3.49 | 19.57    | 3.25     |          |          |
| YES                                |                         | NO          |             |           |               |      |          |          |          |          |
| VOL29                              | 0                       | 0.16947E-02 | 460639.8    | 3787451.8 | 679.1         | 3.49 | 19.57    | 3.25     |          |          |

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***                  04/15/24
*** AERMET - VERSION 16216 ***
***                                     ***
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\*\*\* VOLUME SOURCE DATA \*\*\*

| SOURCE<br>SOURCE<br>ID<br>(METERS) | SCALAR<br>VARY<br>CATS.<br>(METERS) | NUMBER      | EMISSION    | RATE      | AIRCRAFT |          | BASE     | RELEASE  | INIT.    | INIT. |
|------------------------------------|-------------------------------------|-------------|-------------|-----------|----------|----------|----------|----------|----------|-------|
|                                    |                                     | URBAN       | EMISSION    | RATE      | X        | Y        | ELEV.    | HEIGHT   | SY       | SZ    |
|                                    |                                     | PART.       | (GRAMS/SEC) |           |          |          |          |          |          |       |
|                                    |                                     | BY          | (METERS)    | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |       |
| VOL41<br>YES                       | 0                                   | 0.16947E-02 | 461007.3    | 3786998.4 | 675.5    | 3.49     | 19.57    | 3.25     |          |       |
| VOL42<br>YES                       | 0                                   | 0.16947E-02 | 461052.2    | 3787052.6 | 669.8    | 3.49     | 19.57    | 3.25     |          |       |
| VOL43<br>YES                       | 0                                   | 0.16947E-02 | 461134.2    | 3787056.6 | 662.0    | 3.49     | 19.57    | 3.25     |          |       |
| VOL44<br>YES                       | 0                                   | 0.16947E-02 | 461082.6    | 3786975.9 | 671.8    | 3.49     | 19.57    | 3.25     |          |       |
| VOL45<br>YES                       | 0                                   | 0.16947E-02 | 461121.0    | 3786917.8 | 665.9    | 3.49     | 19.57    | 3.25     |          |       |
| VOL46<br>YES                       | 0                                   | 0.16947E-02 | 461167.2    | 3786986.5 | 660.1    | 3.49     | 19.57    | 3.25     |          |       |
| VOL47<br>YES                       | 0                                   | 0.16947E-02 | 461253.2    | 3786983.9 | 656.4    | 3.49     | 19.57    | 3.25     |          |       |
| VOL48<br>YES                       | 0                                   | 0.16947E-02 | 461208.2    | 3786903.2 | 658.5    | 3.49     | 19.57    | 3.25     |          |       |
| VOL49<br>YES                       | 0                                   | 0.16947E-02 | 461234.7    | 3786831.8 | 660.3    | 3.49     | 19.57    | 3.25     |          |       |
| VOL50<br>YES                       | 0                                   | 0.16947E-02 | 461291.5    | 3786905.9 | 655.3    | 3.49     | 19.57    | 3.25     |          |       |
| VOL51<br>YES                       | 0                                   | 0.16947E-02 | 461374.8    | 3786887.4 | 652.2    | 3.49     | 19.57    | 3.25     |          |       |
| VOL52                              | 0                                   | 0.16947E-02 | 461317.9    | 3786823.9 | 656.1    | 3.49     | 19.57    | 3.25     |          |       |



| SOURCE<br>SOURCE<br>ID<br>(METERS) | NUMBER<br>URBAN<br>PART.<br>SCALAR VARY<br>CATS. | EMISSION RATE<br>(GRAMS/SEC)<br>BY | AIRCRAFT |           | BASE     | RELEASE  | INIT.    | INIT.    |
|------------------------------------|--------------------------------------------------|------------------------------------|----------|-----------|----------|----------|----------|----------|
|                                    |                                                  |                                    | X        | Y         | ELEV.    | HEIGHT   | SY       | SZ       |
|                                    |                                                  |                                    | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) | (METERS) |
|                                    |                                                  |                                    | -----    |           |          |          |          |          |
| -----                              |                                                  |                                    |          |           |          |          |          |          |
| VOL81<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461223.7 | 3784635.4 | 631.4    | 3.49     | 19.57    | 3.25     |
| VOL82<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461156.8 | 3784658.7 | 636.7    | 3.49     | 19.57    | 3.25     |
| VOL83<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461312.3 | 3784885.8 | 641.4    | 3.49     | 19.57    | 3.25     |
| VOL84<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461310.8 | 3784801.8 | 632.5    | 3.49     | 19.57    | 3.25     |
| VOL85<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461312.3 | 3784714.7 | 629.8    | 3.49     | 19.57    | 3.25     |
| VOL86<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461309.2 | 3784630.7 | 628.2    | 3.49     | 19.57    | 3.25     |
| VOL87<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461284.3 | 3784548.3 | 629.4    | 3.49     | 19.57    | 3.25     |
| VOL88<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461369.9 | 3784543.6 | 624.3    | 3.49     | 19.57    | 3.25     |
| VOL89<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461289.0 | 3784462.7 | 624.5    | 3.49     | 19.57    | 3.25     |
| VOL90<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461225.2 | 3784422.3 | 627.2    | 3.49     | 19.57    | 3.25     |
| VOL91<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461371.4 | 3784458.0 | 621.3    | 3.49     | 19.57    | 3.25     |
| VOL92<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461270.3 | 3784338.3 | 620.3    | 3.49     | 19.57    | 3.25     |
| VOL93<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461310.8 | 3784375.6 | 619.3    | 3.49     | 19.57    | 3.25     |
| VOL94<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461396.3 | 3784627.6 | 624.3    | 3.49     | 19.57    | 3.25     |
| VOL95<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461397.9 | 3784711.6 | 626.6    | 3.49     | 19.57    | 3.25     |
| VOL96<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461396.3 | 3784797.2 | 630.2    | 3.49     | 19.57    | 3.25     |
| VOL97<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461483.4 | 3784714.7 | 622.9    | 3.49     | 19.57    | 3.25     |
| VOL98<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461481.9 | 3784795.6 | 626.2    | 3.49     | 19.57    | 3.25     |
| VOL99<br>YES                       | 0                                                | 0.31934E-01<br>NO                  | 461486.6 | 3784879.6 | 631.1    | 3.49     | 19.57    | 3.25     |
| VOL100<br>YES                      | 0                                                | 0.31934E-01<br>NO                  | 461569.0 | 3784776.9 | 621.4    | 3.49     | 19.57    | 3.25     |
| VOL101<br>YES                      | 0                                                | 0.31934E-01<br>NO                  | 461643.7 | 3784787.8 | 622.8    | 3.49     | 19.57    | 3.25     |
| VOL102<br>YES                      | 0                                                | 0.31934E-01<br>NO                  | 461562.8 | 3784825.2 | 625.1    | 3.49     | 19.57    | 3.25     |

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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   | , VOL5   | , VOL6   | , |
| VOL7 | , VOL8 | ,       |         |          |          |          |   |
|      | VOL9   | , VOL10 | , VOL11 | , VOL12  | , VOL13  | , VOL14  | , |
|      | VOL15  | , VOL16 | ,       |          |          |          |   |
|      | VOL17  | , VOL18 | , VOL19 | , VOL20  | , VOL21  | , VOL22  | , |
|      | VOL23  | , VOL24 | ,       |          |          |          |   |
|      | VOL25  | , VOL26 | , VOL27 | , VOL28  | , VOL29  | , VOL30  | , |
|      | VOL31  | , VOL32 | ,       |          |          |          |   |
|      | VOL33  | , VOL34 | , VOL35 | , VOL36  | , VOL37  | , VOL38  | , |
|      | VOL39  | , VOL40 | ,       |          |          |          |   |
|      | VOL41  | , VOL42 | , VOL43 | , VOL44  | , VOL45  | , VOL46  | , |
|      | VOL47  | , VOL48 | ,       |          |          |          |   |
|      | VOL49  | , VOL50 | , VOL51 | , VOL52  | , VOL53  | , VOL54  | , |
|      | VOL55  | , VOL56 | ,       |          |          |          |   |
|      | VOL57  | , VOL58 | , VOL59 | , VOL60  | , VOL61  | , VOL62  | , |
|      | VOL63  | , VOL64 | ,       |          |          |          |   |
|      | VOL65  | , VOL66 | , VOL67 | , VOL68  | , VOL69  | , VOL70  | , |
|      | VOL71  | , VOL72 | ,       |          |          |          |   |
|      | VOL73  | , VOL74 | , VOL75 | , VOL76  | , VOL77  | , VOL78  | , |
|      | VOL79  | , VOL80 | ,       |          |          |          |   |
|      | VOL81  | , VOL82 | , VOL83 | , VOL84  | , VOL85  | , VOL86  | , |
|      | VOL87  | , VOL88 | ,       |          |          |          |   |
|      | VOL89  | , VOL90 | , VOL91 | , VOL92  | , VOL93  | , VOL94  | , |
|      | VOL95  | , VOL96 | ,       |          |          |          |   |
|      | VOL97  | , VOL98 | , VOL99 | , VOL100 | , VOL101 | , VOL102 | , |

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

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

| URBAN ID | URBAN POP   | SOURCE IDs                                |
|----------|-------------|-------------------------------------------|
| -----    | -----       | -----                                     |
|          | 2035210.    | VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,        |
|          | VOL6 , VOL7 | ,                                         |
| VOL8     | ,           |                                           |
|          | VOL9        | , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , |
|          | VOL15       | , VOL16 ,                                 |
|          | VOL17       | , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , |
|          | VOL23       | , VOL24 ,                                 |

|       |   |       |   |       |   |        |   |        |   |        |   |
|-------|---|-------|---|-------|---|--------|---|--------|---|--------|---|
| VOL25 | , | VOL26 | , | VOL27 | , | VOL28  | , | VOL29  | , | VOL30  | , |
| VOL31 | , | VOL32 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL33 | , | VOL34 | , | VOL35 | , | VOL36  | , | VOL37  | , | VOL38  | , |
| VOL39 | , | VOL40 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL41 | , | VOL42 | , | VOL43 | , | VOL44  | , | VOL45  | , | VOL46  | , |
| VOL47 | , | VOL48 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL49 | , | VOL50 | , | VOL51 | , | VOL52  | , | VOL53  | , | VOL54  | , |
| VOL55 | , | VOL56 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL57 | , | VOL58 | , | VOL59 | , | VOL60  | , | VOL61  | , | VOL62  | , |
| VOL63 | , | VOL64 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL65 | , | VOL66 | , | VOL67 | , | VOL68  | , | VOL69  | , | VOL70  | , |
| VOL71 | , | VOL72 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL73 | , | VOL74 | , | VOL75 | , | VOL76  | , | VOL77  | , | VOL78  | , |
| VOL79 | , | VOL80 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL81 | , | VOL82 | , | VOL83 | , | VOL84  | , | VOL85  | , | VOL86  | , |
| VOL87 | , | VOL88 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL89 | , | VOL90 | , | VOL91 | , | VOL92  | , | VOL93  | , | VOL94  | , |
| VOL95 | , | VOL96 | , |       |   |        |   |        |   |        |   |
|       |   |       |   |       |   |        |   |        |   |        |   |
| VOL97 | , | VOL98 | , | VOL99 | , | VOL100 | , | VOL101 | , | VOL102 | , |

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

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

|                        |        |         |       |                        |
|------------------------|--------|---------|-------|------------------------|
| ( 463154.3, 3786819.6, | 631.4, | 1734.0, | 2.0); | ( 463167.5, 3786865.5, |
| 633.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 463147.6, 3786873.2, | 634.1, | 1734.0, | 2.0); | ( 463129.9, 3786877.4, |
| 634.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463110.0, 3786886.9, | 635.4, | 1734.0, | 2.0); | ( 463059.0, 3786966.9, |
| 641.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463074.9, 3787087.9, | 646.7, | 1734.0, | 2.0); | ( 463102.5, 3787076.0, |
| 645.0, 1734.0,         | 2.0);  |         |       |                        |
| ( 462919.9, 3787058.3, | 650.6, | 1734.0, | 2.0); | ( 463042.0, 3787098.7, |
| 649.3, 1734.0,         | 2.0);  |         |       |                        |
| ( 462998.1, 3787106.0, | 651.7, | 1734.0, | 2.0); | ( 462944.0, 3787123.4, |
| 653.8, 1734.0,         | 2.0);  |         |       |                        |
| ( 462850.6, 3787079.7, | 652.9, | 1734.0, | 2.0); | ( 462807.5, 3787091.0, |
| 653.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462821.9, 3787159.9, | 658.2, | 1734.0, | 2.0); | ( 462755.2, 3787105.3, |
| 654.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462743.8, 3787181.3, | 659.7, | 1734.0, | 2.0); | ( 462870.3, 3787147.1, |
| 657.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462890.0, 3787138.7, | 656.5, | 1734.0, | 2.0); | ( 462725.4, 3787114.5, |
| 655.2, 1734.0,         | 2.0);  |         |       |                        |
| ( 462685.8, 3787125.8, | 655.9, | 1734.0, | 2.0); | ( 462656.2, 3787132.7, |
| 656.5, 1734.0,         | 2.0);  |         |       |                        |
| ( 462632.9, 3787123.9, | 655.6, | 1734.0, | 2.0); | ( 462595.9, 3787152.0, |
| 658.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462571.7, 3787160.3, | 658.8, | 1734.0, | 2.0); | ( 462473.7, 3787233.0, |
| 657.1, 1734.0,         | 2.0);  |         |       |                        |

|                                             |                                             |
|---------------------------------------------|---------------------------------------------|
| ( 462534.0, 3787244.6, 659.9, 1734.0, 2.0); | ( 462400.1, 3787275.4, 659.0, 1734.0, 2.0); |
| ( 462229.2, 3787434.2, 674.5, 1734.0, 2.0); | ( 462257.0, 3787342.4, 668.1, 1734.0, 2.0); |
| ( 462128.4, 3787527.6, 684.6, 1734.0, 2.0); | ( 462183.2, 3787452.4, 675.8, 1734.0, 2.0); |
| ( 462022.5, 3787623.1, 687.6, 1734.0, 2.0); | ( 461918.3, 3787709.0, 694.2, 1734.0, 2.0); |
| ( 462038.5, 3787667.1, 695.0, 1734.0, 2.0); | ( 461424.9, 3788158.1, 731.4, 1734.0, 2.0); |
| ( 461926.8, 3788065.0, 727.1, 1734.0, 2.0); | ( 461937.8, 3787798.6, 702.8, 1734.0, 2.0); |
| ( 461956.2, 3787956.4, 718.2, 1734.0, 2.0); | ( 461303.4, 3788188.5, 726.6, 1734.0, 2.0); |
| ( 461132.5, 3788399.4, 744.9, 1734.0, 2.0); | ( 461058.7, 3788731.5, 757.8, 1734.0, 2.0); |
| ( 460943.7, 3788817.1, 758.9, 1734.0, 2.0); | ( 457324.4, 3790478.1, 770.2, 1734.0, 2.0); |
| ( 457715.3, 3790467.0, 770.2, 1734.0, 2.0); | ( 457385.4, 3790493.9, 772.7, 1734.0, 2.0); |
| ( 457752.2, 3790534.9, 771.1, 1734.0, 2.0); | ( 458383.4, 3790238.2, 751.7, 1734.0, 2.0); |
| ( 463178.4, 3786251.1, 613.0, 1734.0, 2.0); | ( 462814.4, 3786754.2, 633.2, 1734.0, 2.0); |
| ( 462674.0, 3786877.7, 639.7, 1734.0, 2.0); | ( 462604.9, 3786782.6, 635.5, 1734.0, 2.0); |
| ( 462768.8, 3786780.7, 634.5, 1734.0, 2.0); | ( 461416.7, 3783609.8, 589.4, 1734.0, 2.0); |
| ( 461655.6, 3783762.7, 593.9, 1734.0, 2.0); | ( 461824.6, 3783749.2, 599.8, 1734.0, 2.0); |
| ( 461846.6, 3783749.2, 600.8, 1734.0, 2.0); | ( 461939.4, 3783743.2, 615.2, 1734.0, 2.0); |
| ( 462019.9, 3783739.8, 613.5, 1734.0, 2.0); | ( 462121.1, 3783735.6, 606.0, 1734.0, 2.0); |
| ( 462214.8, 3783729.3, 610.5, 1734.0, 2.0); | ( 462334.6, 3783705.5, 621.8, 1734.0, 2.0); |
| ( 461658.1, 3783690.3, 600.5, 1734.0, 2.0); | ( 461041.9, 3783495.8, 601.3, 1734.0, 2.0); |
| ( 461249.5, 3783484.0, 594.5, 1734.0, 2.0); | ( 461451.2, 3783502.2, 587.5, 1734.0, 2.0); |
| ( 461567.3, 3783209.6, 582.7, 1734.0, 2.0); | ( 461502.8, 3783145.1, 583.9, 1734.0, 2.0); |
| ( 461612.5, 3783185.0, 580.9, 1734.0, 2.0); | ( 460924.5, 3783394.0, 606.7, 1734.0, 2.0); |
| ( 460848.3, 3783334.1, 610.0, 1734.0, 2.0); | ( 460765.0, 3783264.4, 611.6, 1734.0, 2.0); |
| ( 460668.8, 3783186.4, 612.4, 1734.0, 2.0); | ( 460574.4, 3783105.5, 612.8, 1734.0, 2.0); |
| ( 460496.5, 3783051.5, 611.6, 1734.0, 2.0); | ( 460712.7, 3783532.6, 612.5, 1734.0, 2.0); |
| ( 460583.9, 3783527.4, 618.6, 1734.0, 2.0); | ( 460501.9, 3783491.8, 620.0, 1734.0, 2.0); |
| ( 460403.7, 3783447.4, 622.7, 1734.0, 2.0); | ( 460304.0, 3783403.0, 626.7, 1734.0, 2.0); |
| ( 459503.3, 3782889.0, 625.8, 1734.0, 2.0); | ( 459388.1, 3783065.7, 632.6, 1734.0, 2.0); |
| ( 459382.3, 3783016.7, 631.6, 1734.0, 2.0); | ( 459350.1, 3783155.5, 636.1, 1734.0, 2.0); |
| ( 459320.3, 3783264.9, 639.9, 1734.0, 2.0); | ( 463904.6, 3786591.8, 615.2, 1734.0, 2.0); |
| ( 466077.1, 3784031.3, 535.0, 1734.0, 2.0); | ( 466200.8, 3784254.0, 536.0, 1734.0, 2.0); |
| ( 465960.2, 3784644.2, 547.3, 1734.0, 2.0); | ( 466195.2, 3784597.0, 545.5, 1734.0, 2.0); |

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Met



Profile format:  
FREE

Upper air station no.: 3190  
Name:  
Year: 2011

[illegible]

|          |      |       |       |        |        |       |      |       |      |      |      |      |
|----------|------|-------|-------|--------|--------|-------|------|-------|------|------|------|------|
| 11 01 01 | 1 01 | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 204. | 41.2  | 0.25 | 2.82 | 1.00 | 1.80 |
| 69.      | 9.1  | 276.4 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 02 | -23.8 | 0.239 | -9.000 | -9.000 | -999. | 281. | 63.0  | 0.25 | 2.82 | 1.00 | 2.20 |
| 52.      | 9.1  | 275.4 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 03 | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205. | 41.2  | 0.25 | 2.82 | 1.00 | 1.80 |
| 32.      | 9.1  | 275.4 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 04 | -1.4  | 0.067 | -9.000 | -9.000 | -999. | 57.  | 18.3  | 0.25 | 2.82 | 1.00 | 0.40 |
| 27.      | 9.1  | 274.2 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 05 | -18.6 | 0.194 | -9.000 | -9.000 | -999. | 204. | 41.2  | 0.25 | 2.82 | 1.00 | 1.80 |
| 51.      | 9.1  | 274.2 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 06 | -29.7 | 0.296 | -9.000 | -9.000 | -999. | 387. | 96.6  | 0.25 | 2.82 | 1.00 | 2.70 |
| 53.      | 9.1  | 274.2 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 07 | -24.0 | 0.239 | -9.000 | -9.000 | -999. | 282. | 63.0  | 0.25 | 2.82 | 1.00 | 2.20 |
| 70.      | 9.1  | 274.2 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 08 | -8.4  | 0.138 | -9.000 | -9.000 | -999. | 127. | 27.3  | 0.25 | 2.82 | 0.54 | 1.30 |
| 72.      | 9.1  | 275.4 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 09 | 44.3  | 0.280 | 0.571  | 0.005  | 147.  | 356. | -43.5 | 0.25 | 2.82 | 0.32 | 2.20 |
| 67.      | 9.1  | 277.5 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 10 | 122.7 | 0.264 | 0.952  | 0.005  | 247.  | 326. | -13.2 | 0.25 | 2.82 | 0.25 | 1.80 |
| 83.      | 9.1  | 279.9 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 11 | 179.8 | 0.316 | 1.733  | 0.005  | 1017. | 426. | -15.4 | 0.25 | 2.82 | 0.22 | 2.20 |
| 58.      | 9.1  | 282.0 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 12 | 206.0 | 0.320 | 1.940  | 0.008  | 1244. | 435. | -14.0 | 0.25 | 2.82 | 0.21 | 2.20 |
| 115.     | 9.1  | 283.1 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 13 | 132.6 | 0.214 | 1.733  | 0.009  | 1377. | 243. | -6.5  | 0.25 | 2.82 | 0.21 | 1.30 |
| 147.     | 9.1  | 284.2 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 14 | 147.0 | 0.216 | 1.818  | 0.009  | 1431. | 242. | -6.0  | 0.25 | 2.82 | 0.23 | 1.30 |
| 219.     | 9.1  | 284.9 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 15 | 104.0 | 0.208 | 1.633  | 0.009  | 1468. | 228. | -7.6  | 0.25 | 2.82 | 0.26 | 1.30 |
| 126.     | 9.1  | 285.4 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 16 | 26.4  | 0.140 | 1.037  | 0.009  | 1477. | 127. | -9.1  | 0.25 | 2.82 | 0.35 | 0.90 |
| 151.     | 9.1  | 284.9 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 17 | -9.0  | 0.137 | -9.000 | -9.000 | -999. | 121. | 24.9  | 0.25 | 2.82 | 0.63 | 1.30 |
| 69.      | 9.1  | 283.1 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 18 | -33.4 | 0.342 | -9.000 | -9.000 | -999. | 481. | 129.0 | 0.25 | 2.82 | 1.00 | 3.10 |
| 81.      | 9.1  | 281.4 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 19 | -33.6 | 0.342 | -9.000 | -9.000 | -999. | 481. | 128.9 | 0.25 | 2.82 | 1.00 | 3.10 |
| 51.      | 9.1  | 279.9 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 20 | -23.6 | 0.239 | -9.000 | -9.000 | -999. | 287. | 63.1  | 0.25 | 2.82 | 1.00 | 2.20 |
| 77.      | 9.1  | 278.8 | 5.5   |        |        |       |      |       |      |      |      |      |
| 11 01 01 | 1 21 | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205. | 41.2  | 0.25 | 2.82 |      |      |

First hour of profile data  
YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV  
11 01 01 01 5.5 0 -999. -99.00 276.5 99.0 -99.00 -99.00  
11 01 01 01 9.1 1 69. 1.80 -999.0 99.0 -99.00 -99.00

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

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SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* 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 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 , VOL17 , VOL18 ,  
VOL14 , VOL15 , VOL16 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* 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) |                  |            |             |         |
| 463154.33   | 3786819.61      | 9.77407          | (12091420) | 463167.45   |         |
| 3786865.52  | 11.03700        | (12081321)       |            |             |         |
| 463147.58   | 3786873.25      | 12.06794         | (11090721) | 463129.92   |         |
| 3786877.44  | 12.83937        | (12081623)       |            |             |         |
| 463110.04   | 3786886.94      | 14.06832         | (12081623) | 463059.03   |         |
| 3786966.87  | 17.44468        | (11080222)       |            |             |         |
| 463074.93   | 3787087.88      | 17.05394         | (11080221) | 463102.53   |         |
| 3787075.96  | 16.65755        | (11080222)       |            |             |         |
| 462919.92   | 3787058.29      | 15.70540         | (15100919) | 463042.03   |         |
| 3787098.70  | 17.16627        | (11080221)       |            |             |         |
| 462998.09   | 3787105.99      | 16.44805         | (11080221) | 462943.99   |         |
| 3787123.43  | 14.99023        | (16083124)       |            |             |         |
| 462850.58   | 3787079.71      | 15.40507         | (16092019) | 462807.52   |         |
| 3787090.97  | 15.32210        | (12091321)       |            |             |         |
| 462821.88   | 3787159.87      | 13.63741         | (12081123) | 462755.22   |         |
| 3787105.29  | 15.35633        | (11082623)       |            |             |         |
| 462743.77   | 3787181.31      | 13.60768         | (11082623) | 462870.28   |         |
| 3787147.15  | 13.75167        | (16092019)       |            |             |         |
| 462889.99   | 3787138.70      | 13.85778         | (12080824) | 462725.43   |         |
| 3787114.51  | 15.20179        | (12092121)       |            |             |         |
| 462685.82   | 3787125.77      | 15.07848         | (12082102) | 462656.17   |         |
| 3787132.72  | 15.06514        | (13090923)       |            |             |         |
| 462632.89   | 3787123.90      | 15.57897         | (13090422) | 462595.92   |         |
| 3787152.05  | 14.89607        | (15063020)       |            |             |         |
| 462571.70   | 3787160.31      | 14.80458         | (15063020) | 462473.70   |         |
| 3787233.03  | 14.03840        | (13082423)       |            |             |         |
| 462534.01   | 3787244.58      | 13.57807         | (13090305) | 462400.07   |         |
| 3787275.41  | 13.30897        | (16072824)       |            |             |         |
| 462229.16   | 3787434.24      | 9.97762          | (16102718) | 462256.97   |         |
| 3787342.44  | 11.41292        | (12081005)       |            |             |         |
| 462128.43   | 3787527.59      | 8.46825          | (12081005) | 462183.16   |         |
| 3787452.38  | 9.64611         | (12081005)       |            |             |         |

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***                  04/15/24
*** AERMET - VERSION 16216 ***
***                                     ***
                                     17:33:11

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| ***    | THE       | 1ST        | HIGHEST | 1-HR    | AVERAGE | CONCENTRATION | VALUES | FOR |
|--------|-----------|------------|---------|---------|---------|---------------|--------|-----|
| SOURCE | GROUP:    | ALL        | ***     |         |         |               |        |     |
|        | INCLUDING | SOURCE(S): |         | VOL1    |         | , VOL2        |        | ,   |
|        | VOL3      | , VOL4     |         | , VOL5  |         | , VOL6        |        | ,   |
|        | VOL7      | , VOL8     |         | , VOL9  |         | , VOL10       |        | ,   |
|        | VOL12     | , VOL13    |         | , VOL14 |         | , VOL15       |        | ,   |
|        | VOL15     | , VOL16    |         | , VOL17 |         | , VOL18       |        | ,   |
|        | VOL20     | , VOL21    |         | , VOL22 |         | , VOL23       |        | ,   |
|        | VOL23     | , VOL24    |         | , VOL25 |         | , VOL26       |        | ,   |
|        | VOL28     | , VOL29    |         | , VOL30 |         | , VOL31       |        | ,   |

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

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

| X-COORD (M)<br>(M) | Y-COORD (M)<br>CONC (YYMMDDHH) | CONC       | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|--------------------|--------------------------------|------------|------------|-------------|---------|
| 459503.27          | 3782889.01                     | 1.35694    | (11011520) | 459388.10   |         |
| 3783065.74         | 2.48920                        | (16072301) |            |             |         |
| 459382.29          | 3783016.73                     | 2.20064    | (15101223) | 459350.12   |         |
| 3783155.49         | 3.47156                        | (13090502) |            |             |         |
| 459320.33          | 3783264.86                     | 4.43017    | (12082923) | 463904.58   |         |
| 3786591.83         | 1.91469                        | (12121715) |            |             |         |
| 466077.15          | 3784031.33                     | 0.99707    | (11061807) | 466200.85   |         |
| 3784253.98         | 0.79545                        | (11061807) |            |             |         |
| 465960.20          | 3784644.19                     | 0.76646    | (12051107) | 466195.23   |         |
| 3784596.96         | 0.73223                        | (12051107) |            |             |         |
| 462710.50          | 3782876.40                     | 1.24911    | (13062307) | 462069.84   |         |
| 3783383.52         | 2.33139                        | (15013017) |            |             |         |
| 462277.17          | 3783298.31                     | 1.91605    | (15013017) | 461797.05   |         |
| 3783468.72         | 4.91712                        | (13041207) |            |             |         |

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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 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

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

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

| X-COORD (M)<br>(M) | Y-COORD (M)<br>CONC (YYMMDDHH) | CONC       | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|--------------------|--------------------------------|------------|------------|-------------|---------|
| 463154.33          | 3786819.61                     | 7.99366    | (12112924) | 463167.45   |         |
| 3786865.52         | 8.58462                        | (12112924) |            |             |         |
| 463147.58          | 3786873.25                     | 9.32414    | (12112924) | 463129.92   |         |
| 3786877.44         | 9.79027                        | (12112924) |            |             |         |
| 463110.04          | 3786886.94                     | 10.40556   | (12112924) | 463059.03   |         |
| 3786966.87         | 10.02917                       | (12112924) |            |             |         |
| 463074.93          | 3787087.88                     | 7.54538    | (11100508) | 463102.53   |         |
| 3787075.96         | 7.81787                        | (12112924) |            |             |         |
| 462919.92          | 3787058.29                     | 6.83078    | (11100508) | 463042.03   |         |
| 3787098.70         | 7.40922                        | (11100508) |            |             |         |
| 462998.09          | 3787105.99                     | 6.96105    | (11100508) | 462943.99   |         |
| 3787123.43         | 6.09795                        | (11100508) |            |             |         |
| 462850.58          | 3787079.71                     | 7.19088    | (13120708) | 462807.52   |         |
| 3787090.97         | 6.89333                        | (16051808) |            |             |         |

|            |            |            |            |           |
|------------|------------|------------|------------|-----------|
| 462821.88  | 3787159.87 | 6.00297    | (13120708) | 462755.22 |
| 3787105.29 | 6.91290    | (16051808) |            |           |
| 462743.77  | 3787181.31 | 5.97008    | (16051808) | 462870.28 |
| 3787147.15 | 6.26084    | (13120708) |            |           |
| 462889.99  | 3787138.70 | 6.24332    | (13120708) | 462725.43 |
| 3787114.51 | 6.61023    | (16051808) |            |           |
| 462685.82  | 3787125.77 | 5.99002    | (16051808) | 462656.17 |
| 3787132.72 | 5.72658    | (15101508) |            |           |
| 462632.89  | 3787123.90 | 5.62776    | (15101508) | 462595.92 |
| 3787152.05 | 4.81713    | (15101508) |            |           |
| 462571.70  | 3787160.31 | 4.63206    | (16010608) | 462473.70 |
| 3787233.03 | 4.11342    | (15021824) |            |           |
| 462534.01  | 3787244.58 | 4.07844    | (16010608) | 462400.07 |
| 3787275.41 | 3.95666    | (16102724) |            |           |
| 462229.16  | 3787434.24 | 3.26981    | (16102724) | 462256.97 |
| 3787342.44 | 3.76622    | (16102724) |            |           |
| 462128.43  | 3787527.59 | 2.86447    | (15052808) | 462183.16 |
| 3787452.38 | 3.08959    | (16102724) |            |           |
| 462022.45  | 3787623.08 | 2.60055    | (15052808) | 461918.34 |
| 3787709.00 | 2.47860    | (12021508) |            |           |
| 462038.54  | 3787667.10 | 2.46965    | (15052808) | 461424.87 |
| 3788158.12 | 1.94262    | (16051808) |            |           |
| 461926.79  | 3788065.01 | 1.88665    | (13120708) | 461937.75 |
| 3787798.61 | 2.23810    | (12021508) |            |           |
| 461956.17  | 3787956.45 | 1.91075    | (12021508) | 461303.41 |
| 3788188.53 | 2.25813    | (16051808) |            |           |
| 461132.48  | 3788399.44 | 1.85062    | (16051808) | 461058.72 |
| 3788731.50 | 1.47926    | (16051808) |            |           |
| 460943.68  | 3788817.15 | 1.12479    | (16051808) | 457324.43 |
| 3790478.09 | 0.60168    | (15052808) |            |           |
| 457715.29  | 3790466.96 | 0.61213    | (12050408) | 457385.37 |
| 3790493.92 | 0.59289    | (15052808) |            |           |
| 457752.21  | 3790534.94 | 0.65036    | (12050408) | 458383.39 |
| 3790238.21 | 0.66179    | (16102724) |            |           |
| 463178.40  | 3786251.10 | 3.74351    | (16121108) | 462814.44 |
| 3786754.18 | 19.36136   | (15122308) |            |           |
| 462674.03  | 3786877.67 | 10.51662   | (16010608) | 462604.90 |
| 3786782.62 | 19.19482m  | (12121224) |            |           |
| 462768.77  | 3786780.67 | 17.30958   | (15122308) | 461416.67 |
| 3783609.80 | 2.63445    | (16121108) |            |           |
| 461655.59  | 3783762.73 | 3.17499    | (13041208) | 461824.61 |
| 3783749.17 | 2.72160    | (16121108) |            |           |
| 461846.64  | 3783749.17 | 2.68168    | (16121108) | 461939.41 |
| 3783743.24 | 2.51705m   | (16081408) |            |           |
| 462019.90  | 3783739.85 | 2.35130m   | (16081408) | 462121.14 |
| 3783735.61 | 2.14735    | (16121108) |            |           |
| 462214.76  | 3783729.26 | 1.99056m   | (16081408) | 462334.64 |
| 3783705.54 | 1.79015m   | (16081408) |            |           |
| 461658.13  | 3783690.29 | 2.91549    | (13041208) | 461041.92 |
| 3783495.78 | 2.53424    | (16012724) |            |           |
| 461249.49  | 3783484.05 | 2.22871    | (16121108) | 461451.20 |
| 3783502.23 | 2.24280    | (16121108) |            |           |
| 461567.30  | 3783209.63 | 1.55116    | (16121108) | 461502.80 |
| 3783145.13 | 1.46780    | (16121108) |            |           |
| 461612.45  | 3783185.00 | 1.49716    | (16121108) | 460924.52 |
| 3783393.96 | 2.19803    | (16012724) |            |           |
| 460848.29  | 3783334.15 | 1.95994    | (16012724) | 460765.02 |
| 3783264.37 | 1.69304    | (16012724) |            |           |
| 460668.85  | 3783186.38 | 1.45601    | (13111324) | 460574.44 |
| 3783105.46 | 1.36584    | (13120824) |            |           |
| 460496.45  | 3783051.51 | 1.31953    | (13120824) | 460712.73 |
| 3783532.65 | 2.18685    | (13120824) |            |           |
| 460583.91  | 3783527.38 | 2.10703    | (13120824) | 460501.88 |
| 3783491.78 | 1.95165    | (13120824) |            |           |
| 460403.69  | 3783447.41 | 1.79734    | (13120824) | 460303.99 |
| 3783403.05 | 1.76319    | (13120824) |            |           |

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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 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

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

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

| X-COORD (M)<br>(M) | Y-COORD (M)<br>CONC (YYMMDDHH) | CONC<br>(YYMMDDHH) | X-COORD (M) | Y-COORD |
|--------------------|--------------------------------|--------------------|-------------|---------|
| 459503.27          | 3782889.01                     | 0.86080 (13110624) | 459388.10   |         |
| 3783065.74         | 1.65958 (13120808)             |                    |             |         |
| 459382.29          | 3783016.73                     | 1.48587 (13120808) | 459350.12   |         |
| 3783155.49         | 2.19619 (13120808)             |                    |             |         |
| 459320.33          | 3783264.86                     | 2.59680 (13120808) | 463904.58   |         |
| 3786591.83         | 1.24983m (16081408)            |                    |             |         |
| 466077.15          | 3784031.33                     | 0.31198 (11061808) | 466200.85   |         |
| 3784253.98         | 0.29773 (16121108)             |                    |             |         |
| 465960.20          | 3784644.19                     | 0.35768 (16051508) | 466195.23   |         |
| 3784596.96         | 0.33787 (16051508)             |                    |             |         |
| 462710.50          | 3782876.40                     | 0.80215 (16121108) | 462069.84   |         |
| 3783383.52         | 1.52760 (16121108)             |                    |             |         |
| 462277.17          | 3783298.31                     | 1.27151 (16121108) | 461797.05   |         |
| 3783468.72         | 1.95911 (13041208)             |                    |             |         |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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    | DATE       | RECEPTOR | NETWORK |
|----------------------|-----------------|------------|----------|---------|
| ZELEV, ZHILL, ZFLAG) | OF TYPE GRID-ID | (YYMMDDHH) | (XR, YR, |         |

ALL HIGH 1ST HIGH VALUE IS 33.69698 ON 15063019: AT ( 462604.90, 3786782.62,  
635.54, 1734.00, 2.00) DC

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
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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 \*\*

DATE

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

ALL HIGH 1ST HIGH VALUE IS 19.36136 ON 15122308: AT ( 462814.44, 3786754.18,  
633.19, 1734.00, 2.00) DC

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:33:11

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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 7 Warning Message(s)  
A Total of 838 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 40 Calm Hours Identified  
  
A Total of 798 Missing Hours Identified ( 1.82 Percent)

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

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

|         |     |                                                           |      |
|---------|-----|-----------------------------------------------------------|------|
| ME W186 | 267 | MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used  | 0.50 |
| ME W187 | 267 | MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET |      |

|         |       |                                                           |          |            |
|---------|-------|-----------------------------------------------------------|----------|------------|
| MX W438 | 8800  | METQA: Convective Velocity Data Out-of-Range.             | KURDAT = | 12010216   |
| MX W438 | 11536 | METQA: Convective Velocity Data Out-of-Range.             | KURDAT = | 12042516   |
| MX W420 | 16779 | METQA: Wind Speed Out-of-Range.                           | KURDAT = | 12113003   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: |          | 15010101   |
| MX W450 | 26305 | CHKDAT: Record Out of Sequence in Meteorological File at: |          | 1 year gap |

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

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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/15/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops NOX\15585 Ops NOX.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 1
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID NOX
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Ops NOX.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870
LOCATION VOL29     VOLUME      460639.798    3787451.816    679.140

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|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |
| LOCATION VOL95 | VOLUME | 461397.891 | 3784711.595 | 626.590 |

|                         |        |              |            |             |         |
|-------------------------|--------|--------------|------------|-------------|---------|
| LOCATION                | VOL96  | VOLUME       | 461396.335 | 3784797.151 | 630.160 |
| LOCATION                | VOL97  | VOLUME       | 461483.447 | 3784714.706 | 622.870 |
| LOCATION                | VOL98  | VOLUME       | 461481.891 | 3784795.596 | 626.210 |
| LOCATION                | VOL99  | VOLUME       | 461486.558 | 3784879.596 | 631.090 |
| LOCATION                | VOL100 | VOLUME       | 461569.003 | 3784776.929 | 621.370 |
| LOCATION                | VOL101 | VOLUME       | 461643.670 | 3784787.818 | 622.790 |
| LOCATION                | VOL102 | VOLUME       | 461562.781 | 3784825.151 | 625.070 |
| ** Source Parameters ** |        |              |            |             |         |
| SRCPARAM                | VOL1   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL2   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL3   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL4   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL5   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL6   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL7   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL8   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL9   | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL10  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL11  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL12  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL13  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL14  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL15  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL16  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL17  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL18  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL19  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL20  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL21  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL22  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL23  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL24  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL25  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL26  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL27  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL28  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL29  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL30  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL31  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL32  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL33  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL34  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL35  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL36  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL37  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL38  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL39  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL40  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL41  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL42  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL43  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL44  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL45  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL46  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL47  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL48  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL49  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL50  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL51  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL52  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL53  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL54  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL55  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL56  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL57  | 0.0014918149 | 3.490      | 19.572      | 3.250   |
| SRCPARAM                | VOL58  | 0.0035468403 | 3.490      | 19.572      | 3.250   |

|          |        |              |       |        |       |
|----------|--------|--------------|-------|--------|-------|
| SRCPARAM | VOL59  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL60  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL61  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL62  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL63  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL64  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL65  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL66  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL67  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL68  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL69  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL70  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL71  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL72  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL73  | 0.0035468403 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL74  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL75  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL76  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL77  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL78  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL79  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL80  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL81  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL82  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL83  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL84  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL85  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL86  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL87  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL88  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL89  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL90  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL91  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL92  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL93  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL94  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL95  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL96  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL97  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL98  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL99  | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL100 | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL101 | 0.0051356736 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL102 | 0.0051356736 | 3.490 | 19.572 | 3.250 |

URBANSRC ALL

SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "15585 Ops NOX.rou"

RE FINISHED

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\*\* AERMOD Meteorology Pathway

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\*\*

\*\*

ME STARTING

SURFFILE FONT\_V9\_ADJU\FONT\_v9.SFC

PROFFILE FONT\_V9\_ADJU\FONT\_v9.PFL

SURFDATA 3102 2011

UAIRDATA 3190 2011  
SITEDATA 99999 2011  
PROFBASE 367.0 METERS  
ME FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*  
\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST "15585 OPS NOX.AD\01H1GALL.PLT" 31  
SUMMFILE "15585 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 267 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 267 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

FF \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:45:15

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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 102 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m

\* Urban Roughness Length of 1.0 Meter Used.

\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

\* TEMP\_Sub - Meteorological data includes TEMP substitutions

\* Model 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: 102 Source(s); 1 Source Group(s); and 94 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 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) = 367.00 ; 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15585 Ops

NOX.err

\*\*File for Summary of Results: 15585 Ops

NOX.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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17:45:15

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

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

| NUMBER | EMISSION RATE |          | BASE | RELEASE | INIT. | INIT. |
|--------|---------------|----------|------|---------|-------|-------|
| URBAN  | 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      | 0.14918E-02 | 461693.7 | 3786276.5 | 643.6    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL2     | 0      | 0.14918E-02 | 461646.2 | 3786333.2 | 642.8    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL3     | 0      | 0.14918E-02 | 461591.3 | 3786386.2 | 647.8    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL4     | 0      | 0.14918E-02 | 461541.9 | 3786437.5 | 649.2    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL5     | 0      | 0.14918E-02 | 461499.8 | 3786483.2 | 650.3    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL6     | 0      | 0.14918E-02 | 461461.4 | 3786530.8 | 651.5    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL7     | 0      | 0.14918E-02 | 461408.3 | 3786578.3 | 653.9    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL8     | 0      | 0.14918E-02 | 461452.2 | 3786636.9 | 648.0    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL9     | 0      | 0.14918E-02 | 461512.6 | 3786686.3 | 645.6    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL10    | 0      | 0.14918E-02 | 461573.0 | 3786730.2 | 644.9    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL11    | 0      | 0.14918E-02 | 461366.2 | 3786625.9 | 655.6    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL12    | 0      | 0.14918E-02 | 461289.4 | 3786679.0 | 662.0    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL13    | 0      | 0.14918E-02 | 461373.6 | 3786706.4 | 654.4    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL14    | 0      | 0.14918E-02 | 461441.3 | 3786713.7 | 647.9    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL15    | 0      | 0.14918E-02 | 461234.5 | 3786728.4 | 667.8    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL16    | 0      | 0.14918E-02 | 461199.7 | 3786774.1 | 667.5    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL17    | 0      | 0.14918E-02 | 461152.2 | 3786821.7 | 666.4    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL18    | 0      | 0.14918E-02 | 461086.3 | 3786863.8 | 668.2    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL19    | 0      | 0.14918E-02 | 461038.7 | 3786904.0 | 673.2    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL20    | 0      | 0.14918E-02 | 460978.4 | 3786938.8 | 680.5    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL21    | 0      | 0.14918E-02 | 460927.1 | 3786993.7 | 681.6    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL22    | 0      | 0.14918E-02 | 460877.7 | 3787050.4 | 684.4    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL23    | 0      | 0.14918E-02 | 460837.5 | 3787107.1 | 683.9    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL24    | 0      | 0.14918E-02 | 460804.5 | 3787160.2 | 681.6    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL25    | 0      | 0.14918E-02 | 460749.5 | 3787211.2 | 680.3    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL26    | 0      | 0.14918E-02 | 460704.6 | 3787274.7 | 677.7    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL27    | 0      | 0.14918E-02 | 460655.7 | 3787332.8 | 679.4    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL28    | 0      | 0.14918E-02 | 460593.5 | 3787398.9 | 683.9    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL29    | 0      | 0.14918E-02 | 460639.8 | 3787451.8 | 679.1    | 3.49     | 19.57    | 3.25 |
| YES      |        | NO          |          |           |          |          |          |      |
| VOL30    | 0      | 0.14918E-02 | 460683.4 | 3787401.6 | 675.8    | 3.49     | 19.57    | 3.25 |

|       |   |             |          |           |       |      |       |      |
|-------|---|-------------|----------|-----------|-------|------|-------|------|
| YES   |   | NO          |          |           |       |      |       |      |
| VOL31 | 0 | 0.14918E-02 | 460741.6 | 3787356.6 | 670.8 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL32 | 0 | 0.14918E-02 | 460790.5 | 3787281.3 | 670.0 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL33 | 0 | 0.14918E-02 | 460875.1 | 3787289.2 | 670.4 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL34 | 0 | 0.14918E-02 | 460929.3 | 3787227.1 | 670.7 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL35 | 0 | 0.14918E-02 | 460840.7 | 3787209.9 | 677.6 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL36 | 0 | 0.14918E-02 | 460884.4 | 3787165.0 | 678.0 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL37 | 0 | 0.14918E-02 | 460967.6 | 3787141.2 | 672.8 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL38 | 0 | 0.14918E-02 | 460921.4 | 3787088.3 | 678.9 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL39 | 0 | 0.14918E-02 | 460967.6 | 3787063.2 | 676.3 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL40 | 0 | 0.14918E-02 | 461048.3 | 3787114.7 | 668.5 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |

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\*\*\*      \*\*\*      17:45:15

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

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

|          |        | NUMBER | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    | INIT. |
|----------|--------|--------|-------------|----------|-----------|----------|----------|----------|-------|
|          |        | URBAN  | 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          |          |           |          |          |          |       |
| -----    |        |        |             |          |           |          |          |          |       |
| -----    |        |        |             |          |           |          |          |          |       |
| VOL41    |        | 0      | 0.14918E-02 | 461007.3 | 3786998.4 | 675.5    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL42    |        | 0      | 0.14918E-02 | 461052.2 | 3787052.6 | 669.8    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL43    |        | 0      | 0.14918E-02 | 461134.2 | 3787056.6 | 662.0    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL44    |        | 0      | 0.14918E-02 | 461082.6 | 3786975.9 | 671.8    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL45    |        | 0      | 0.14918E-02 | 461121.0 | 3786917.8 | 665.9    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL46    |        | 0      | 0.14918E-02 | 461167.2 | 3786986.5 | 660.1    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL47    |        | 0      | 0.14918E-02 | 461253.2 | 3786983.9 | 656.4    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL48    |        | 0      | 0.14918E-02 | 461208.2 | 3786903.2 | 658.5    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL49    |        | 0      | 0.14918E-02 | 461234.7 | 3786831.8 | 660.3    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL50    |        | 0      | 0.14918E-02 | 461291.5 | 3786905.9 | 655.3    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL51    |        | 0      | 0.14918E-02 | 461374.8 | 3786887.4 | 652.2    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL52    |        | 0      | 0.14918E-02 | 461317.9 | 3786823.9 | 656.1    | 3.49     | 19.57    | 3.25  |
| YES      |        |        | NO          |          |           |          |          |          |       |
| VOL53    |        | 0      | 0.14918E-02 | 461287.5 | 3786757.8 | 660.4    | 3.49     | 19.57    | 3.25  |



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

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

|        |   |             |          |           |       |      |       |      |
|--------|---|-------------|----------|-----------|-------|------|-------|------|
| VOL81  | 0 | 0.51357E-02 | 461223.7 | 3784635.4 | 631.4 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL82  | 0 | 0.51357E-02 | 461156.8 | 3784658.7 | 636.7 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL83  | 0 | 0.51357E-02 | 461312.3 | 3784885.8 | 641.4 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL84  | 0 | 0.51357E-02 | 461310.8 | 3784801.8 | 632.5 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL85  | 0 | 0.51357E-02 | 461312.3 | 3784714.7 | 629.8 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL86  | 0 | 0.51357E-02 | 461309.2 | 3784630.7 | 628.2 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL87  | 0 | 0.51357E-02 | 461284.3 | 3784548.3 | 629.4 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL88  | 0 | 0.51357E-02 | 461369.9 | 3784543.6 | 624.3 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL89  | 0 | 0.51357E-02 | 461289.0 | 3784462.7 | 624.5 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL90  | 0 | 0.51357E-02 | 461225.2 | 3784422.3 | 627.2 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL91  | 0 | 0.51357E-02 | 461371.4 | 3784458.0 | 621.3 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL92  | 0 | 0.51357E-02 | 461270.3 | 3784338.3 | 620.3 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL93  | 0 | 0.51357E-02 | 461310.8 | 3784375.6 | 619.3 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL94  | 0 | 0.51357E-02 | 461396.3 | 3784627.6 | 624.3 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL95  | 0 | 0.51357E-02 | 461397.9 | 3784711.6 | 626.6 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL96  | 0 | 0.51357E-02 | 461396.3 | 3784797.2 | 630.2 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL97  | 0 | 0.51357E-02 | 461483.4 | 3784714.7 | 622.9 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL98  | 0 | 0.51357E-02 | 461481.9 | 3784795.6 | 626.2 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL99  | 0 | 0.51357E-02 | 461486.6 | 3784879.6 | 631.1 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL100 | 0 | 0.51357E-02 | 461569.0 | 3784776.9 | 621.4 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL101 | 0 | 0.51357E-02 | 461643.7 | 3784787.8 | 622.8 | 3.49 | 19.57 | 3.25 |
| YES    |   | NO          |          |           |       |      |       |      |
| VOL102 | 0 | 0.51357E-02 | 461562.8 | 3784825.2 | 625.1 | 3.49 | 19.57 | 3.25 |
| 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  | , VOL5  | , VOL6  | , |
| VOL7 | , VOL8 | ,       |         |         |         |         |   |
|      | VOL9   | , VOL10 | , VOL11 | , VOL12 | , VOL13 | , VOL14 | , |
|      | VOL15  | , VOL16 | ,       |         |         |         |   |
|      | VOL17  | , VOL18 | , VOL19 | , VOL20 | , VOL21 | , VOL22 | , |
|      | VOL23  | , VOL24 | ,       |         |         |         |   |
|      | VOL25  | , VOL26 | , VOL27 | , VOL28 | , VOL29 | , VOL30 | , |
|      | VOL31  | , VOL32 | ,       |         |         |         |   |
|      | VOL33  | , VOL34 | , VOL35 | , VOL36 | , VOL37 | , VOL38 | , |
|      | VOL39  | , VOL40 | ,       |         |         |         |   |
|      | VOL41  | , VOL42 | , VOL43 | , VOL44 | , VOL45 | , VOL46 | , |
|      | VOL47  | , VOL48 | ,       |         |         |         |   |
|      | VOL49  | , VOL50 | , VOL51 | , VOL52 | , VOL53 | , VOL54 | , |
|      | VOL55  | , VOL56 | ,       |         |         |         |   |
|      | VOL57  | , VOL58 | , VOL59 | , VOL60 | , VOL61 | , VOL62 | , |
|      | VOL63  | , VOL64 | ,       |         |         |         |   |
|      | VOL65  | , VOL66 | , VOL67 | , VOL68 | , VOL69 | , VOL70 | , |
|      | VOL71  | , VOL72 | ,       |         |         |         |   |
|      | VOL73  | , VOL74 | , VOL75 | , VOL76 | , VOL77 | , VOL78 | , |
|      | VOL79  | , VOL80 | ,       |         |         |         |   |
|      | VOL81  | , VOL82 | , VOL83 | , VOL84 | , VOL85 | , VOL86 | , |
|      | VOL87  | , VOL88 | ,       |         |         |         |   |
|      | VOL89  | , VOL90 | , VOL91 | , VOL92 | , VOL93 | , VOL94 | , |
|      | VOL95  | , VOL96 | ,       |         |         |         |   |

|                                   |                                                           |         |         |          |          |          |              |
|-----------------------------------|-----------------------------------------------------------|---------|---------|----------|----------|----------|--------------|
|                                   | VOL97                                                     | , VOL98 | , VOL99 | , VOL100 | , VOL101 | , VOL102 | ,            |
| FF *** AERMOD - VERSION 23132 *** | *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen |         |         |          |          |          |              |
| SP\15585 Ops H ***                | 04/15/24                                                  |         |         |          |          |          |              |
| *** AERMET - VERSION 16216 ***    |                                                           |         |         |          |          |          |              |
| ***                               |                                                           |         |         |          |          |          | *** 17:45:15 |

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

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

| URBAN ID | URBAN POP | SOURCE IDs |         |         |         |         |   |
|----------|-----------|------------|---------|---------|---------|---------|---|
| -----    | -----     | -----      |         |         |         |         |   |
|          | 2035210.  | VOL1       | , VOL2  | , VOL3  | , VOL4  | , VOL5  | , |
|          | VOL6      | , VOL7     | ,       |         |         |         |   |
| VOL8     | ,         |            |         |         |         |         |   |
|          | VOL9      | , VOL10    | , VOL11 | , VOL12 | , VOL13 | , VOL14 | , |
|          | VOL15     | , VOL16    | ,       |         |         |         |   |
|          | VOL17     | , VOL18    | , VOL19 | , VOL20 | , VOL21 | , VOL22 | , |
|          | VOL23     | , VOL24    | ,       |         |         |         |   |
|          | VOL25     | , VOL26    | , VOL27 | , VOL28 | , VOL29 | , VOL30 | , |
|          | VOL31     | , VOL32    | ,       |         |         |         |   |

|       |   |       |   |       |   |        |   |        |   |        |   |
|-------|---|-------|---|-------|---|--------|---|--------|---|--------|---|
| VOL33 | , | VOL34 | , | VOL35 | , | VOL36  | , | VOL37  | , | VOL38  | , |
| VOL39 | , | VOL40 | , |       |   |        |   |        |   |        |   |
| VOL41 | , | VOL42 | , | VOL43 | , | VOL44  | , | VOL45  | , | VOL46  | , |
| VOL47 | , | VOL48 | , |       |   |        |   |        |   |        |   |
| VOL49 | , | VOL50 | , | VOL51 | , | VOL52  | , | VOL53  | , | VOL54  | , |
| VOL55 | , | VOL56 | , |       |   |        |   |        |   |        |   |
| VOL57 | , | VOL58 | , | VOL59 | , | VOL60  | , | VOL61  | , | VOL62  | , |
| VOL63 | , | VOL64 | , |       |   |        |   |        |   |        |   |
| VOL65 | , | VOL66 | , | VOL67 | , | VOL68  | , | VOL69  | , | VOL70  | , |
| VOL71 | , | VOL72 | , |       |   |        |   |        |   |        |   |
| VOL73 | , | VOL74 | , | VOL75 | , | VOL76  | , | VOL77  | , | VOL78  | , |
| VOL79 | , | VOL80 | , |       |   |        |   |        |   |        |   |
| VOL81 | , | VOL82 | , | VOL83 | , | VOL84  | , | VOL85  | , | VOL86  | , |
| VOL87 | , | VOL88 | , |       |   |        |   |        |   |        |   |
| VOL89 | , | VOL90 | , | VOL91 | , | VOL92  | , | VOL93  | , | VOL94  | , |
| VOL95 | , | VOL96 | , |       |   |        |   |        |   |        |   |
| VOL97 | , | VOL98 | , | VOL99 | , | VOL100 | , | VOL101 | , | VOL102 | , |

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*** 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)

|                        |        |         |       |                        |
|------------------------|--------|---------|-------|------------------------|
| ( 463154.3, 3786819.6, | 631.4, | 1734.0, | 2.0); | ( 463167.5, 3786865.5, |
| 633.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 463147.6, 3786873.2, | 634.1, | 1734.0, | 2.0); | ( 463129.9, 3786877.4, |
| 634.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463110.0, 3786886.9, | 635.4, | 1734.0, | 2.0); | ( 463059.0, 3786966.9, |
| 641.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463074.9, 3787087.9, | 646.7, | 1734.0, | 2.0); | ( 463102.5, 3787076.0, |
| 645.0, 1734.0,         | 2.0);  |         |       |                        |
| ( 462919.9, 3787058.3, | 650.6, | 1734.0, | 2.0); | ( 463042.0, 3787098.7, |
| 649.3, 1734.0,         | 2.0);  |         |       |                        |
| ( 462998.1, 3787106.0, | 651.7, | 1734.0, | 2.0); | ( 462944.0, 3787123.4, |
| 653.8, 1734.0,         | 2.0);  |         |       |                        |
| ( 462850.6, 3787079.7, | 652.9, | 1734.0, | 2.0); | ( 462807.5, 3787091.0, |
| 653.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462821.9, 3787159.9, | 658.2, | 1734.0, | 2.0); | ( 462755.2, 3787105.3, |
| 654.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462743.8, 3787181.3, | 659.7, | 1734.0, | 2.0); | ( 462870.3, 3787147.1, |
| 657.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462890.0, 3787138.7, | 656.5, | 1734.0, | 2.0); | ( 462725.4, 3787114.5, |
| 655.2, 1734.0,         | 2.0);  |         |       |                        |
| ( 462685.8, 3787125.8, | 655.9, | 1734.0, | 2.0); | ( 462656.2, 3787132.7, |
| 656.5, 1734.0,         | 2.0);  |         |       |                        |
| ( 462632.9, 3787123.9, | 655.6, | 1734.0, | 2.0); | ( 462595.9, 3787152.0, |
| 658.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462571.7, 3787160.3, | 658.8, | 1734.0, | 2.0); | ( 462473.7, 3787233.0, |
| 657.1, 1734.0,         | 2.0);  |         |       |                        |
| ( 462534.0, 3787244.6, | 659.9, | 1734.0, | 2.0); | ( 462400.1, 3787275.4, |
| 659.0, 1734.0,         | 2.0);  |         |       |                        |

|                                             |                        |
|---------------------------------------------|------------------------|
| ( 462229.2, 3787434.2, 674.5, 1734.0, 2.0); | ( 462257.0, 3787342.4, |
| 668.1, 1734.0, 2.0);                        |                        |
| ( 462128.4, 3787527.6, 684.6, 1734.0, 2.0); | ( 462183.2, 3787452.4, |
| 675.8, 1734.0, 2.0);                        |                        |
| ( 462022.5, 3787623.1, 687.6, 1734.0, 2.0); | ( 461918.3, 3787709.0, |
| 694.2, 1734.0, 2.0);                        |                        |
| ( 462038.5, 3787667.1, 695.0, 1734.0, 2.0); | ( 461424.9, 3788158.1, |
| 731.4, 1734.0, 2.0);                        |                        |
| ( 461926.8, 3788065.0, 727.1, 1734.0, 2.0); | ( 461937.8, 3787798.6, |
| 702.8, 1734.0, 2.0);                        |                        |
| ( 461956.2, 3787956.4, 718.2, 1734.0, 2.0); | ( 461303.4, 3788188.5, |
| 726.6, 1734.0, 2.0);                        |                        |
| ( 461132.5, 3788399.4, 744.9, 1734.0, 2.0); | ( 461058.7, 3788731.5, |
| 757.8, 1734.0, 2.0);                        |                        |
| ( 460943.7, 3788817.1, 758.9, 1734.0, 2.0); | ( 457324.4, 3790478.1, |
| 770.2, 1734.0, 2.0);                        |                        |
| ( 457715.3, 3790467.0, 770.2, 1734.0, 2.0); | ( 457385.4, 3790493.9, |
| 772.7, 1734.0, 2.0);                        |                        |
| ( 457752.2, 3790534.9, 771.1, 1734.0, 2.0); | ( 458383.4, 3790238.2, |
| 751.7, 1734.0, 2.0);                        |                        |
| ( 463178.4, 3786251.1, 613.0, 1734.0, 2.0); | ( 462814.4, 3786754.2, |
| 633.2, 1734.0, 2.0);                        |                        |
| ( 462674.0, 3786877.7, 639.7, 1734.0, 2.0); | ( 462604.9, 3786782.6, |
| 635.5, 1734.0, 2.0);                        |                        |
| ( 462768.8, 3786780.7, 634.5, 1734.0, 2.0); | ( 461416.7, 3783609.8, |
| 589.4, 1734.0, 2.0);                        |                        |
| ( 461655.6, 3783762.7, 593.9, 1734.0, 2.0); | ( 461824.6, 3783749.2, |
| 599.8, 1734.0, 2.0);                        |                        |
| ( 461846.6, 3783749.2, 600.8, 1734.0, 2.0); | ( 461939.4, 3783743.2, |
| 615.2, 1734.0, 2.0);                        |                        |
| ( 462019.9, 3783739.8, 613.5, 1734.0, 2.0); | ( 462121.1, 3783735.6, |
| 606.0, 1734.0, 2.0);                        |                        |
| ( 462214.8, 3783729.3, 610.5, 1734.0, 2.0); | ( 462334.6, 3783705.5, |
| 621.8, 1734.0, 2.0);                        |                        |
| ( 461658.1, 3783690.3, 600.5, 1734.0, 2.0); | ( 461041.9, 3783495.8, |
| 601.3, 1734.0, 2.0);                        |                        |
| ( 461249.5, 3783484.0, 594.5, 1734.0, 2.0); | ( 461451.2, 3783502.2, |
| 587.5, 1734.0, 2.0);                        |                        |
| ( 461567.3, 3783209.6, 582.7, 1734.0, 2.0); | ( 461502.8, 3783145.1, |
| 583.9, 1734.0, 2.0);                        |                        |
| ( 461612.5, 3783185.0, 580.9, 1734.0, 2.0); | ( 460924.5, 3783394.0, |
| 606.7, 1734.0, 2.0);                        |                        |
| ( 460848.3, 3783334.1, 610.0, 1734.0, 2.0); | ( 460765.0, 3783264.4, |
| 611.6, 1734.0, 2.0);                        |                        |
| ( 460668.8, 3783186.4, 612.4, 1734.0, 2.0); | ( 460574.4, 3783105.5, |
| 612.8, 1734.0, 2.0);                        |                        |
| ( 460496.5, 3783051.5, 611.6, 1734.0, 2.0); | ( 460712.7, 3783532.6, |
| 612.5, 1734.0, 2.0);                        |                        |
| ( 460583.9, 3783527.4, 618.6, 1734.0, 2.0); | ( 460501.9, 3783491.8, |
| 620.0, 1734.0, 2.0);                        |                        |
| ( 460403.7, 3783447.4, 622.7, 1734.0, 2.0); | ( 460304.0, 3783403.0, |
| 626.7, 1734.0, 2.0);                        |                        |
| ( 459503.3, 3782889.0, 625.8, 1734.0, 2.0); | ( 459388.1, 3783065.7, |
| 632.6, 1734.0, 2.0);                        |                        |
| ( 459382.3, 3783016.7, 631.6, 1734.0, 2.0); | ( 459350.1, 3783155.5, |
| 636.1, 1734.0, 2.0);                        |                        |
| ( 459320.3, 3783264.9, 639.9, 1734.0, 2.0); | ( 463904.6, 3786591.8, |
| 615.2, 1734.0, 2.0);                        |                        |
| ( 466077.1, 3784031.3, 535.0, 1734.0, 2.0); | ( 466200.8, 3784254.0, |
| 536.0, 1734.0, 2.0);                        |                        |
| ( 465960.2, 3784644.2, 547.3, 1734.0, 2.0); | ( 466195.2, 3784597.0, |
| 545.5, 1734.0, 2.0);                        |                        |

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

```

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

```

$$\begin{aligned} & (462710.5, 3782876.4, 547.6, 1734.0, 2.0); & (462069.8, 3783383.5, \\ & 571.2, 1734.0, 2.0); \\ & (462277.2, 3783298.3, 561.0, 1734.0, 2.0); & (461797.0, 3783468.7, \\ & 575.6, 1734.0, 2.0); \end{aligned}$$

```

*** AERMOD - VERSION 23132 ***
SP\15585 Ops H *** 04/15/24
*** AERMET - VERSION 16216 ***
***
*** 17:45:15

```

\*\*\* 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, 10.80,

```

*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen
SP\15585 Ops H ***                  04/15/24
*** AERMET - VERSION 16216 ***
***                                  ***
***                                  17:45:15

```

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

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

```
Surface file:
FONT_V9_ADJU\FONT_v9.SFC
Version: 16216
Profile file:
FONT_V9_ADJU\FONT_v9.PFL
Surface format:
FREE
```

Met

Profile format:

FREE

Surface station no.: 3102  
Name: UNKNOWN  
UNKNOWN  
Year: 2011

Upper air station no.: 3190  
Name:  
Year: 2011

First 24 hours of scalar data

| YR   | MO | DY | JDY | HR  | H0    | U*    | W*     | DT/DZ  | ZICNV | ZIMCH | M-0   | LEN  | Z0   | BOWEN | ALBEDO | REF | WS |
|------|----|----|-----|-----|-------|-------|--------|--------|-------|-------|-------|------|------|-------|--------|-----|----|
| WD   |    |    | HT  | REF | TA    | HT    |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 01  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 69.  |    |    | 9.1 |     | 276.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 02  | -23.8 | 0.239 | -9.000 | -9.000 | -999. | 281.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 52.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 03  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 32.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 04  | -1.4  | 0.067 | -9.000 | -9.000 | -999. | 57.   | 18.3  | 0.25 | 2.82 | 1.00  | 0.40   |     |    |
| 27.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 05  | -18.6 | 0.194 | -9.000 | -9.000 | -999. | 204.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 51.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 06  | -29.7 | 0.296 | -9.000 | -9.000 | -999. | 387.  | 96.6  | 0.25 | 2.82 | 1.00  | 2.70   |     |    |
| 53.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 07  | -24.0 | 0.239 | -9.000 | -9.000 | -999. | 282.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 70.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 08  | -8.4  | 0.138 | -9.000 | -9.000 | -999. | 127.  | 27.3  | 0.25 | 2.82 | 0.54  | 1.30   |     |    |
| 72.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 09  | 44.3  | 0.280 | 0.571  | 0.005  | 147.  | 356.  | -43.5 | 0.25 | 2.82 | 0.32  | 2.20   |     |    |
| 67.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 10  | 122.7 | 0.264 | 0.952  | 0.005  | 247.  | 326.  | -13.2 | 0.25 | 2.82 | 0.25  | 1.80   |     |    |
| 83.  |    |    | 9.1 |     | 279.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 11  | 179.8 | 0.316 | 1.733  | 0.005  | 1017. | 426.  | -15.4 | 0.25 | 2.82 | 0.22  | 2.20   |     |    |
| 58.  |    |    | 9.1 |     | 282.0 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 12  | 206.0 | 0.320 | 1.940  | 0.008  | 1244. | 435.  | -14.0 | 0.25 | 2.82 | 0.21  | 2.20   |     |    |
| 115. |    |    | 9.1 |     | 283.1 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 13  | 132.6 | 0.214 | 1.733  | 0.009  | 1377. | 243.  | -6.5  | 0.25 | 2.82 | 0.21  | 1.30   |     |    |
| 147. |    |    | 9.1 |     | 284.2 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 14  | 147.0 | 0.216 | 1.818  | 0.009  | 1431. | 242.  | -6.0  | 0.25 | 2.82 | 0.23  | 1.30   |     |    |
| 219. |    |    | 9.1 |     | 284.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 15  | 104.0 | 0.208 | 1.633  | 0.009  | 1468. | 228.  | -7.6  | 0.25 | 2.82 | 0.26  | 1.30   |     |    |
| 126. |    |    | 9.1 |     | 285.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 16  | 26.4  | 0.140 | 1.037  | 0.009  | 1477. | 127.  | -9.1  | 0.25 | 2.82 | 0.35  | 0.90   |     |    |
| 151. |    |    | 9.1 |     | 284.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 17  | -9.0  | 0.137 | -9.000 | -9.000 | -999. | 121.  | 24.9  | 0.25 | 2.82 | 0.63  | 1.30   |     |    |
| 69.  |    |    | 9.1 |     | 283.1 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 18  | -33.4 | 0.342 | -9.000 | -9.000 | -999. | 481.  | 129.0 | 0.25 | 2.82 | 1.00  | 3.10   |     |    |
| 81.  |    |    | 9.1 |     | 281.4 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 19  | -33.6 | 0.342 | -9.000 | -9.000 | -999. | 481.  | 128.9 | 0.25 | 2.82 | 1.00  | 3.10   |     |    |
| 51.  |    |    | 9.1 |     | 279.9 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 20  | -23.6 | 0.239 | -9.000 | -9.000 | -999. | 287.  | 63.1  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 77.  |    |    | 9.1 |     | 278.8 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 21  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 53.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 22  | -23.7 | 0.239 | -9.000 | -9.000 | -999. | 281.  | 63.0  | 0.25 | 2.82 | 1.00  | 2.20   |     |    |
| 58.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 23  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  | 41.2  | 0.25 | 2.82 | 1.00  | 1.80   |     |    |
| 64.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |
| 11   | 01 | 01 | 1   | 24  | -4.5  | 0.094 | -9.000 | -9.000 | -999. | 74.   | 16.3  | 0.25 | 2.82 | 1.00  | 0.90   |     |    |
| 52.  |    |    | 9.1 |     | 277.0 | 5.5   |        |        |       |       |       |      |      |       |        |     |    |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR | WSPD | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|------|------|---------|--------|--------|--------|
|----|----|----|----|--------|---|------|------|---------|--------|--------|--------|

11 01 01 01 5.5 0 -999. -99.00 276.5 99.0 -99.00 -99.00  
11 01 01 01 9.1 1 69. 1.80 -999.0 99.0 -99.00 -99.00

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:45:15

PAGE 11

\*\*\* 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 , VOL5  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* 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) |            |             |         |
| 463154.33   | 3786819.61  | 1.69932    | (12091420) | 463167.45   |         |
| 3786865.52  | 1.90782     | (12081321) |            |             |         |
| 463147.58   | 3786873.25  | 2.08038    | (11090721) | 463129.92   |         |
| 3786877.44  | 2.21042     | (12081623) |            |             |         |
| 463110.04   | 3786886.94  | 2.41902    | (12081623) | 463059.03   |         |
| 3786966.87  | 2.99749     | (11080222) |            |             |         |
| 463074.93   | 3787087.88  | 2.92257    | (11080221) | 463102.53   |         |
| 3787075.96  | 2.85408     | (11080222) |            |             |         |
| 462919.92   | 3787058.29  | 2.72152    | (12081702) | 463042.03   |         |
| 3787098.70  | 2.93684     | (11080221) |            |             |         |
| 462998.09   | 3787105.99  | 2.81154    | (16083124) | 462943.99   |         |
| 3787123.43  | 2.56121     | (16083124) |            |             |         |
| 462850.58   | 3787079.71  | 2.69375    | (16092019) | 462807.52   |         |
| 3787090.97  | 2.68255     | (12091321) |            |             |         |
| 462821.88   | 3787159.87  | 2.38957    | (12081123) | 462755.22   |         |
| 3787105.29  | 2.69176     | (11082623) |            |             |         |
| 462743.77   | 3787181.31  | 2.38835    | (11082623) | 462870.28   |         |
| 3787147.15  | 2.40677     | (16092019) |            |             |         |
| 462889.99   | 3787138.70  | 2.42444    | (12080824) | 462725.43   |         |
| 3787114.51  | 2.66733     | (12092121) |            |             |         |
| 462685.82   | 3787125.77  | 2.64863    | (12082102) | 462656.17   |         |
| 3787132.72  | 2.64837     | (13090923) |            |             |         |
| 462632.89   | 3787123.90  | 2.73970    | (13090422) | 462595.92   |         |
| 3787152.05  | 2.62284     | (15063020) |            |             |         |
| 462571.70   | 3787160.31  | 2.60911    | (15063020) | 462473.70   |         |
| 3787233.03  | 2.49045     | (13082423) |            |             |         |
| 462534.01   | 3787244.58  | 2.40061    | (13090305) | 462400.07   |         |
| 3787275.41  | 2.37110     | (16072824) |            |             |         |
| 462229.16   | 3787434.24  | 1.78385    | (16102718) | 462256.97   |         |
| 3787342.44  | 2.04327     | (12081005) |            |             |         |
| 462128.43   | 3787527.59  | 1.50586    | (12081005) | 462183.16   |         |
| 3787452.38  | 1.72824     | (12081005) |            |             |         |
| 462022.45   | 3787623.08  | 1.48752    | (12081702) | 461918.34   |         |
| 3787709.00  | 1.46996     | (16072602) |            |             |         |



```
*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H ***                  04/15/24  
*** AERMET - VERSION 16216 ***  
***                                ***
```

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

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

\*\*

| X-COORD (M)<br>(M) | Y-COORD (M)<br>CONC (YYMMDDHH) | CONC       | (YYMMDDHH) | X-COORD (M) | Y-COORD |
|--------------------|--------------------------------|------------|------------|-------------|---------|
| 459503.27          | 3782889.01                     | 0.22682    | (11011520) | 459388.10   |         |
| 3783065.74         | 0.41573                        | (16072301) |            |             |         |
| 459382.29          | 3783016.73                     | 0.36937    | (15101223) | 459350.12   |         |
| 3783155.49         | 0.57442                        | (13090502) |            |             |         |
| 459320.33          | 3783264.86                     | 0.72881    | (12082923) | 463904.58   |         |
| 3786591.83         | 0.37959                        | (12121715) |            |             |         |
| 466077.15          | 3784031.33                     | 0.16052    | (11061807) | 466200.85   |         |
| 3784253.98         | 0.14052                        | (12070507) |            |             |         |
| 465960.20          | 3784644.19                     | 0.15366    | (12070507) | 466195.23   |         |
| 3784596.96         | 0.14548                        | (12070507) |            |             |         |
| 462710.50          | 3782876.40                     | 0.20429    | (13062307) | 462069.84   |         |
| 3783383.52         | 0.41454                        | (13041207) |            |             |         |
| 462277.17          | 3783298.31                     | 0.30841    | (15013017) | 461797.05   |         |
| 3783468.72         | 0.81816                        | (13041207) |            |             |         |

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24

\*\*\* AERMET - VERSION 16216 \*\*\*

\*\*\*

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17:45:15

PAGE 13

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

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

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

\*\*

DATE

NETWORK

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

ALL HIGH 1ST HIGH VALUE IS 5.72413 ON 15063019: AT ( 462604.90, 3786782.62,  
635.54, 1734.00, 2.00) DC

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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17:45:15

PAGE 14

\*\*\* 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 7 Warning Message(s)

A Total of 838 Informational Message(s)  
A Total of 43848 Hours Were Processed  
A Total of 40 Calm Hours Identified  
A Total of 798 Missing Hours Identified ( 1.82 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 267 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 267 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W438 8800 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12010216  
MX W438 11536 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12042516  
MX W420 16779 METQA: Wind Speed Out-of-Range. KURDAT = 12113003  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 15010101  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 1 year gap

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/15/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops PM10\15585 Ops
PM10.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 24
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID PM_10
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Ops PM10.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870

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|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL29 | VOLUME | 460639.798 | 3787451.816 | 679.140 |
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |

|          |        |        |            |             |         |
|----------|--------|--------|------------|-------------|---------|
| LOCATION | VOL95  | VOLUME | 461397.891 | 3784711.595 | 626.590 |
| LOCATION | VOL96  | VOLUME | 461396.335 | 3784797.151 | 630.160 |
| LOCATION | VOL97  | VOLUME | 461483.447 | 3784714.706 | 622.870 |
| LOCATION | VOL98  | VOLUME | 461481.891 | 3784795.596 | 626.210 |
| LOCATION | VOL99  | VOLUME | 461486.558 | 3784879.596 | 631.090 |
| LOCATION | VOL100 | VOLUME | 461569.003 | 3784776.929 | 621.370 |
| LOCATION | VOL101 | VOLUME | 461643.670 | 3784787.818 | 622.790 |
| LOCATION | VOL102 | VOLUME | 461562.781 | 3784825.151 | 625.070 |

\*\* Source Parameters \*\*

|          |       |              |       |        |       |
|----------|-------|--------------|-------|--------|-------|
| SRCPARAM | VOL1  | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL2  | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL3  | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL5  | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL7  | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL14 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL21 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL22 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL23 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL25 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL26 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL27 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL28 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL30 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL31 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL32 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL33 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL34 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL35 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL36 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL38 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL39 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL40 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL41 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL42 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL44 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL45 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL46 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL47 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL48 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL49 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL50 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL51 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL52 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL56 | 0.0002141964 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL57 | 0.0002141964 | 3.490 | 19.572 | 3.250 |

|          |        |              |       |        |       |
|----------|--------|--------------|-------|--------|-------|
| SRCPARAM | VOL58  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL59  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL60  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL61  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL62  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL63  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL64  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL65  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL66  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL67  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL68  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL69  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL70  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL71  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL72  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL73  | 0.0002658555 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL74  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL75  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL76  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL77  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL78  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL79  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL80  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL81  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL82  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL83  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL84  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL85  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL86  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL87  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL88  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL89  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL90  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL91  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL92  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL93  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL94  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL95  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL96  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL97  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL98  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL99  | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL100 | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL101 | 0.000536751  | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL102 | 0.000536751  | 3.490 | 19.572 | 3.250 |

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

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\*\*\*\*\*

\*\* AERMOD Receptor Pathway  
\*\*\*\*\*

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\*\*

RE STARTING  
INCLUDED "15585 Ops PM10.rou"

RE FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
SURFFILE FONT\_V9\_ADJU\FONT\_v9.SFC  
PROFFILE FONT\_V9\_ADJU\FONT\_v9.PFL

SURFDATA 3102 2011  
UAIRDATA 3190 2011  
SITEDATA 99999 2011  
PROFBASE 367.0 METERS

ME FINISHED

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\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "15585 OPS PM10.AD\24H1GALL.PLT" 31

SUMMFILE "15585 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        267        MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used                0.50  
ME W187        267        MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

FF \*\*\* AERMOD - VERSION 23132 \*\*\*        \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\*                04/15/24

\*\*\* 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    102 Source(s),



for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model 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: 102 Source(s); 1 Source Group(s); and 94 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 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) = 367.00 ; 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15585 Ops

PM10.err

\*\*File for Summary of Results: 15585 Ops

PM10.sum

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

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

NUMBER EMISSION RATE

BASE

RELEASE

INIT.

INIT.

| SOURCE   | URBAN       | EMISSION RATE | AIRCRAFT |           | ELEV.    | HEIGHT   | SY       | SZ   |
|----------|-------------|---------------|----------|-----------|----------|----------|----------|------|
| SOURCE   | PART.       | (GRAMS/SEC)   | X        | Y         | (METERS) | (METERS) | (METERS) |      |
| ID       | SCALAR VARY |               |          |           |          |          |          |      |
| (METERS) | CATS.       | BY            |          |           |          |          |          |      |
| -----    |             |               |          |           |          |          |          |      |
| VOL1     | 0           | 0.21420E-03   | 461693.7 | 3786276.5 | 643.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL2     | 0           | 0.21420E-03   | 461646.2 | 3786333.2 | 642.8    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL3     | 0           | 0.21420E-03   | 461591.3 | 3786386.2 | 647.8    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL4     | 0           | 0.21420E-03   | 461541.9 | 3786437.5 | 649.2    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL5     | 0           | 0.21420E-03   | 461499.8 | 3786483.2 | 650.3    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL6     | 0           | 0.21420E-03   | 461461.4 | 3786530.8 | 651.5    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL7     | 0           | 0.21420E-03   | 461408.3 | 3786578.3 | 653.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL8     | 0           | 0.21420E-03   | 461452.2 | 3786636.9 | 648.0    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL9     | 0           | 0.21420E-03   | 461512.6 | 3786686.3 | 645.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL10    | 0           | 0.21420E-03   | 461573.0 | 3786730.2 | 644.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL11    | 0           | 0.21420E-03   | 461366.2 | 3786625.9 | 655.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL12    | 0           | 0.21420E-03   | 461289.4 | 3786679.0 | 662.0    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL13    | 0           | 0.21420E-03   | 461373.6 | 3786706.4 | 654.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL14    | 0           | 0.21420E-03   | 461441.3 | 3786713.7 | 647.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL15    | 0           | 0.21420E-03   | 461234.5 | 3786728.4 | 667.8    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL16    | 0           | 0.21420E-03   | 461199.7 | 3786774.1 | 667.5    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL17    | 0           | 0.21420E-03   | 461152.2 | 3786821.7 | 666.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL18    | 0           | 0.21420E-03   | 461086.3 | 3786863.8 | 668.2    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL19    | 0           | 0.21420E-03   | 461038.7 | 3786904.0 | 673.2    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL20    | 0           | 0.21420E-03   | 460978.4 | 3786938.8 | 680.5    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL21    | 0           | 0.21420E-03   | 460927.1 | 3786993.7 | 681.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL22    | 0           | 0.21420E-03   | 460877.7 | 3787050.4 | 684.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL23    | 0           | 0.21420E-03   | 460837.5 | 3787107.1 | 683.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL24    | 0           | 0.21420E-03   | 460804.5 | 3787160.2 | 681.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL25    | 0           | 0.21420E-03   | 460749.5 | 3787211.2 | 680.3    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL26    | 0           | 0.21420E-03   | 460704.6 | 3787274.7 | 677.7    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL27    | 0           | 0.21420E-03   | 460655.7 | 3787332.8 | 679.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL28    | 0           | 0.21420E-03   | 460593.5 | 3787398.9 | 683.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL29    | 0           | 0.21420E-03   | 460639.8 | 3787451.8 | 679.1    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |

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

[illegible]

|       |   |             |          |           |       |      |       |      |
|-------|---|-------------|----------|-----------|-------|------|-------|------|
| VOL41 | 0 | 0.21420E-03 | 461007.3 | 3786998.4 | 675.5 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL42 | 0 | 0.21420E-03 | 461052.2 | 3787052.6 | 669.8 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL43 | 0 | 0.21420E-03 | 461134.2 | 3787056.6 | 662.0 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL44 | 0 | 0.21420E-03 | 461082.6 | 3786975.9 | 671.8 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL45 | 0 | 0.21420E-03 | 461121.0 | 3786917.8 | 665.9 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL46 | 0 | 0.21420E-03 | 461167.2 | 3786986.5 | 660.1 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL47 | 0 | 0.21420E-03 | 461253.2 | 3786983.9 | 656.4 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL48 | 0 | 0.21420E-03 | 461208.2 | 3786903.2 | 658.5 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL49 | 0 | 0.21420E-03 | 461234.7 | 3786831.8 | 660.3 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL50 | 0 | 0.21420E-03 | 461291.5 | 3786905.9 | 655.3 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL51 | 0 | 0.21420E-03 | 461374.8 | 3786887.4 | 652.2 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL52 | 0 | 0.21420E-03 | 461317.9 | 3786823.9 | 656.1 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |

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



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|      |        |         |         |         |         |         |   |
|------|--------|---------|---------|---------|---------|---------|---|
| ALL  | VOL1   | , VOL2  | , VOL3  | , VOL4  | , VOL5  | , VOL6  | , |
| VOL7 | , VOL8 | ,       |         |         |         |         |   |
|      | VOL9   | , VOL10 | , VOL11 | , VOL12 | , VOL13 | , VOL14 | , |
|      | VOL15  | , VOL16 | ,       |         |         |         |   |
|      | VOL17  | , VOL18 | , VOL19 | , VOL20 | , VOL21 | , VOL22 | , |
|      | VOL23  | , VOL24 | ,       |         |         |         |   |
|      | VOL25  | , VOL26 | , VOL27 | , VOL28 | , VOL29 | , VOL30 | , |
|      | VOL31  | , VOL32 | ,       |         |         |         |   |
|      | VOL33  | , VOL34 | , VOL35 | , VOL36 | , VOL37 | , VOL38 | , |
|      | VOL39  | , VOL40 | ,       |         |         |         |   |
|      | VOL41  | , VOL42 | , VOL43 | , VOL44 | , VOL45 | , VOL46 | , |
|      | VOL47  | , VOL48 | ,       |         |         |         |   |
|      | VOL49  | , VOL50 | , VOL51 | , VOL52 | , VOL53 | , VOL54 | , |
|      | VOL55  | , VOL56 | ,       |         |         |         |   |
|      | VOL57  | , VOL58 | , VOL59 | , VOL60 | , VOL61 | , VOL62 | , |
|      | VOL63  | , VOL64 | ,       |         |         |         |   |
|      | VOL65  | , VOL66 | , VOL67 | , VOL68 | , VOL69 | , VOL70 | , |
|      | VOL71  | , VOL72 | ,       |         |         |         |   |
|      | VOL73  | , VOL74 | , VOL75 | , VOL76 | , VOL77 | , VOL78 | , |
|      | VOL79  | , VOL80 | ,       |         |         |         |   |
|      | VOL81  | , VOL82 | , VOL83 | , VOL84 | , VOL85 | , VOL86 | , |
|      | VOL87  | , VOL88 | ,       |         |         |         |   |
|      | VOL89  | , VOL90 | , VOL91 | , VOL92 | , VOL93 | , VOL94 | , |
|      | VOL95  | , VOL96 | ,       |         |         |         |   |

VOL97, VOL98, VOL99, VOL100, VOL101, VOL102,  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ\_U\*

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

| URBAN ID | URBAN POP | SOURCE IDs |         |         |         |         |   |
|----------|-----------|------------|---------|---------|---------|---------|---|
| -----    | -----     | -----      |         |         |         |         |   |
|          | 2035210.  | VOL1       | , VOL2  | , VOL3  | , VOL4  | , VOL5  | , |
|          | VOL6      | , VOL7     | ,       |         |         |         |   |
| VOL8     | ,         |            |         |         |         |         |   |
|          | VOL9      | , VOL10    | , VOL11 | , VOL12 | , VOL13 | , VOL14 | , |
|          | VOL15     | , VOL16    | ,       |         |         |         |   |
|          | VOL17     | , VOL18    | , VOL19 | , VOL20 | , VOL21 | , VOL22 | , |
|          | VOL23     | , VOL24    | ,       |         |         |         |   |
|          | VOL25     | , VOL26    | , VOL27 | , VOL28 | , VOL29 | , VOL30 | , |

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SP\15585 Ops H ***                  04/15/24
*** AERMET - VERSION 16216 ***
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|                        |        |         |       |                        |
|------------------------|--------|---------|-------|------------------------|
| ( 463154.3, 3786819.6, | 631.4, | 1734.0, | 2.0); | ( 463167.5, 3786865.5, |
| 633.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 463147.6, 3786873.2, | 634.1, | 1734.0, | 2.0); | ( 463129.9, 3786877.4, |
| 634.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463110.0, 3786886.9, | 635.4, | 1734.0, | 2.0); | ( 463059.0, 3786966.9, |
| 641.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463074.9, 3787087.9, | 646.7, | 1734.0, | 2.0); | ( 463102.5, 3787076.0, |
| 645.0, 1734.0,         | 2.0);  |         |       |                        |
| ( 462919.9, 3787058.3, | 650.6, | 1734.0, | 2.0); | ( 463042.0, 3787098.7, |
| 649.3, 1734.0,         | 2.0);  |         |       |                        |
| ( 462998.1, 3787106.0, | 651.7, | 1734.0, | 2.0); | ( 462944.0, 3787123.4, |
| 653.8, 1734.0,         | 2.0);  |         |       |                        |
| ( 462850.6, 3787079.7, | 652.9, | 1734.0, | 2.0); | ( 462807.5, 3787091.0, |
| 653.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462821.9, 3787159.9, | 658.2, | 1734.0, | 2.0); | ( 462755.2, 3787105.3, |
| 654.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462743.8, 3787181.3, | 659.7, | 1734.0, | 2.0); | ( 462870.3, 3787147.1, |
| 657.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462890.0, 3787138.7, | 656.5, | 1734.0, | 2.0); | ( 462725.4, 3787114.5, |
| 655.2, 1734.0,         | 2.0);  |         |       |                        |
| ( 462685.8, 3787125.8, | 655.9, | 1734.0, | 2.0); | ( 462656.2, 3787132.7, |
| 656.5, 1734.0,         | 2.0);  |         |       |                        |
| ( 462632.9, 3787123.9, | 655.6, | 1734.0, | 2.0); | ( 462595.9, 3787152.0, |
| 658.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462571.7, 3787160.3, | 658.8, | 1734.0, | 2.0); | ( 462473.7, 3787233.0, |
| 657.1, 1734.0,         | 2.0);  |         |       |                        |
| ( 462534.0, 3787244.6, | 659.9, | 1734.0, | 2.0); | ( 462400.1, 3787275.4, |

|             |            |        |         |       |                        |
|-------------|------------|--------|---------|-------|------------------------|
| 659.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462229.2, | 3787434.2, | 674.5, | 1734.0, | 2.0); | ( 462257.0, 3787342.4, |
| 668.1,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462128.4, | 3787527.6, | 684.6, | 1734.0, | 2.0); | ( 462183.2, 3787452.4, |
| 675.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462022.5, | 3787623.1, | 687.6, | 1734.0, | 2.0); | ( 461918.3, 3787709.0, |
| 694.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462038.5, | 3787667.1, | 695.0, | 1734.0, | 2.0); | ( 461424.9, 3788158.1, |
| 731.4,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461926.8, | 3788065.0, | 727.1, | 1734.0, | 2.0); | ( 461937.8, 3787798.6, |
| 702.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461956.2, | 3787956.4, | 718.2, | 1734.0, | 2.0); | ( 461303.4, 3788188.5, |
| 726.6,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461132.5, | 3788399.4, | 744.9, | 1734.0, | 2.0); | ( 461058.7, 3788731.5, |
| 757.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460943.7, | 3788817.1, | 758.9, | 1734.0, | 2.0); | ( 457324.4, 3790478.1, |
| 770.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 457715.3, | 3790467.0, | 770.2, | 1734.0, | 2.0); | ( 457385.4, 3790493.9, |
| 772.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 457752.2, | 3790534.9, | 771.1, | 1734.0, | 2.0); | ( 458383.4, 3790238.2, |
| 751.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 463178.4, | 3786251.1, | 613.0, | 1734.0, | 2.0); | ( 462814.4, 3786754.2, |
| 633.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462674.0, | 3786877.7, | 639.7, | 1734.0, | 2.0); | ( 462604.9, 3786782.6, |
| 635.5,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462768.8, | 3786780.7, | 634.5, | 1734.0, | 2.0); | ( 461416.7, 3783609.8, |
| 589.4,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461655.6, | 3783762.7, | 593.9, | 1734.0, | 2.0); | ( 461824.6, 3783749.2, |
| 599.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461846.6, | 3783749.2, | 600.8, | 1734.0, | 2.0); | ( 461939.4, 3783743.2, |
| 615.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462019.9, | 3783739.8, | 613.5, | 1734.0, | 2.0); | ( 462121.1, 3783735.6, |
| 606.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462214.8, | 3783729.3, | 610.5, | 1734.0, | 2.0); | ( 462334.6, 3783705.5, |
| 621.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461658.1, | 3783690.3, | 600.5, | 1734.0, | 2.0); | ( 461041.9, 3783495.8, |
| 601.3,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461249.5, | 3783484.0, | 594.5, | 1734.0, | 2.0); | ( 461451.2, 3783502.2, |
| 587.5,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461567.3, | 3783209.6, | 582.7, | 1734.0, | 2.0); | ( 461502.8, 3783145.1, |
| 583.9,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461612.5, | 3783185.0, | 580.9, | 1734.0, | 2.0); | ( 460924.5, 3783394.0, |
| 606.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460848.3, | 3783334.1, | 610.0, | 1734.0, | 2.0); | ( 460765.0, 3783264.4, |
| 611.6,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460668.8, | 3783186.4, | 612.4, | 1734.0, | 2.0); | ( 460574.4, 3783105.5, |
| 612.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460496.5, | 3783051.5, | 611.6, | 1734.0, | 2.0); | ( 460712.7, 3783532.6, |
| 612.5,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460583.9, | 3783527.4, | 618.6, | 1734.0, | 2.0); | ( 460501.9, 3783491.8, |
| 620.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460403.7, | 3783447.4, | 622.7, | 1734.0, | 2.0); | ( 460304.0, 3783403.0, |
| 626.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 459503.3, | 3782889.0, | 625.8, | 1734.0, | 2.0); | ( 459388.1, 3783065.7, |
| 632.6,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 459382.3, | 3783016.7, | 631.6, | 1734.0, | 2.0); | ( 459350.1, 3783155.5, |
| 636.1,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 459320.3, | 3783264.9, | 639.9, | 1734.0, | 2.0); | ( 463904.6, 3786591.8, |
| 615.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 466077.1, | 3784031.3, | 535.0, | 1734.0, | 2.0); | ( 466200.8, 3784254.0, |
| 536.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 465960.2, | 3784644.2, | 547.3, | 1734.0, | 2.0); | ( 466195.2, 3784597.0, |
| 545.5,      | 1734.0,    | 2.0);  |         |       |                        |





FREE

Profile format:  
FREE

Surface station no.: 3102  
Name: UNKNOWN  
UNKNOWN  
Year: 2011

Upper air station no.: 3190  
Name:  
Year: 2011

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    |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 01  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 204.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 69.  |    |    | 9.1 |     | 276.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 02  | -23.8 | 0.239 | -9.000 | -9.000 | -999. | 281.  |     | 63.0  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 52.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 03  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 32.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 04  | -1.4  | 0.067 | -9.000 | -9.000 | -999. | 57.   |     | 18.3  | 0.25 | 2.82  | 1.00   | 0.40 |    |
| 27.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 05  | -18.6 | 0.194 | -9.000 | -9.000 | -999. | 204.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 51.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 06  | -29.7 | 0.296 | -9.000 | -9.000 | -999. | 387.  |     | 96.6  | 0.25 | 2.82  | 1.00   | 2.70 |    |
| 53.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 07  | -24.0 | 0.239 | -9.000 | -9.000 | -999. | 282.  |     | 63.0  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 70.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 08  | -8.4  | 0.138 | -9.000 | -9.000 | -999. | 127.  |     | 27.3  | 0.25 | 2.82  | 0.54   | 1.30 |    |
| 72.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 09  | 44.3  | 0.280 | 0.571  | 0.005  | 147.  | 356.  |     | -43.5 | 0.25 | 2.82  | 0.32   | 2.20 |    |
| 67.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 10  | 122.7 | 0.264 | 0.952  | 0.005  | 247.  | 326.  |     | -13.2 | 0.25 | 2.82  | 0.25   | 1.80 |    |
| 83.  |    |    | 9.1 |     | 279.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 11  | 179.8 | 0.316 | 1.733  | 0.005  | 1017. | 426.  |     | -15.4 | 0.25 | 2.82  | 0.22   | 2.20 |    |
| 58.  |    |    | 9.1 |     | 282.0 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 12  | 206.0 | 0.320 | 1.940  | 0.008  | 1244. | 435.  |     | -14.0 | 0.25 | 2.82  | 0.21   | 2.20 |    |
| 115. |    |    | 9.1 |     | 283.1 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 13  | 132.6 | 0.214 | 1.733  | 0.009  | 1377. | 243.  |     | -6.5  | 0.25 | 2.82  | 0.21   | 1.30 |    |
| 147. |    |    | 9.1 |     | 284.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 14  | 147.0 | 0.216 | 1.818  | 0.009  | 1431. | 242.  |     | -6.0  | 0.25 | 2.82  | 0.23   | 1.30 |    |
| 219. |    |    | 9.1 |     | 284.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 15  | 104.0 | 0.208 | 1.633  | 0.009  | 1468. | 228.  |     | -7.6  | 0.25 | 2.82  | 0.26   | 1.30 |    |
| 126. |    |    | 9.1 |     | 285.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 16  | 26.4  | 0.140 | 1.037  | 0.009  | 1477. | 127.  |     | -9.1  | 0.25 | 2.82  | 0.35   | 0.90 |    |
| 151. |    |    | 9.1 |     | 284.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 17  | -9.0  | 0.137 | -9.000 | -9.000 | -999. | 121.  |     | 24.9  | 0.25 | 2.82  | 0.63   | 1.30 |    |
| 69.  |    |    | 9.1 |     | 283.1 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 18  | -33.4 | 0.342 | -9.000 | -9.000 | -999. | 481.  |     | 129.0 | 0.25 | 2.82  | 1.00   | 3.10 |    |
| 81.  |    |    | 9.1 |     | 281.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 19  | -33.6 | 0.342 | -9.000 | -9.000 | -999. | 481.  |     | 128.9 | 0.25 | 2.82  | 1.00   | 3.10 |    |
| 51.  |    |    | 9.1 |     | 279.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 20  | -23.6 | 0.239 | -9.000 | -9.000 | -999. | 287.  |     | 63.1  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 77.  |    |    | 9.1 |     | 278.8 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 21  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 53.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 22  | -23.7 | 0.239 | -9.000 | -9.000 | -999. | 281.  |     | 63.0  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 58.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 23  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 64.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 24  | -4.5  | 0.094 | -9.000 | -9.000 | -999. | 74.   |     | 16.3  | 0.25 | 2.82  | 1.00   | 0.90 |    |
| 52.  |    |    | 9.1 |     | 277.0 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |

First hour of profile data

|    |    |    |    |        |   |       |        |         |        |        |        |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
| 11 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 276.5   | 99.0   | -99.00 | -99.00 |
| 11 | 01 | 01 | 01 | 9.1    | 1 | 69.   | 1.80   | -999.0  | 99.0   | -99.00 | -99.00 |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:51:21

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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 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* 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) |            |             |         |
| 463154.33   | 3786819.61  | 0.06682m   | (16031424) | 463167.45   |         |
| 3786865.52  | 0.06901     | (12120224) |            |             |         |
| 463147.58   | 3786873.25  | 0.07440    | (12120224) | 463129.92   |         |
| 3786877.44  | 0.07814     | (12120224) |            |             |         |
| 463110.04   | 3786886.94  | 0.08285    | (12120224) | 463059.03   |         |
| 3786966.87  | 0.08183     | (12120224) |            |             |         |
| 463074.93   | 3787087.88  | 0.06274    | (12120224) | 463102.53   |         |
| 3787075.96  | 0.06518     | (12120224) |            |             |         |
| 462919.92   | 3787058.29  | 0.06119    | (13120724) | 463042.03   |         |
| 3787098.70  | 0.05948     | (12120224) |            |             |         |
| 462998.09   | 3787105.99  | 0.05505    | (12120224) | 462943.99   |         |
| 3787123.43  | 0.05257     | (13120724) |            |             |         |
| 462850.58   | 3787079.71  | 0.06120    | (13120724) | 462807.52   |         |
| 3787090.97  | 0.05795     | (13120724) |            |             |         |
| 462821.88   | 3787159.87  | 0.05051    | (13120724) | 462755.22   |         |
| 3787105.29  | 0.05194     | (13120724) |            |             |         |
| 462743.77   | 3787181.31  | 0.04285    | (13120724) | 462870.28   |         |
| 3787147.15  | 0.05315     | (13120724) |            |             |         |
| 462889.99   | 3787138.70  | 0.05391    | (13120724) | 462725.43   |         |
| 3787114.51  | 0.04797     | (13120724) |            |             |         |
| 462685.82   | 3787125.77  | 0.04264    | (13120724) | 462656.17   |         |
| 3787132.72  | 0.04130     | (15101524) |            |             |         |
| 462632.89   | 3787123.90  | 0.04291    | (12120324) | 462595.92   |         |
| 3787152.05  | 0.04211     | (12120324) |            |             |         |
| 462571.70   | 3787160.31  | 0.04284    | (12120324) | 462473.70   |         |
| 3787233.03  | 0.04143     | (12120324) |            |             |         |
| 462534.01   | 3787244.58  | 0.03906    | (12120324) | 462400.07   |         |
| 3787275.41  | 0.03753     | (13020524) |            |             |         |
| 462229.16   | 3787434.24  | 0.04082    | (11080924) | 462256.97   |         |
| 3787342.44  | 0.04109     | (13020524) |            |             |         |
| 462128.43   | 3787527.59  | 0.04162    | (11080924) | 462183.16   |         |
| 3787452.38  | 0.04140     | (11080924) |            |             |         |
| 462022.45   | 3787623.08  | 0.04108    | (12120224) | 461918.34   |         |

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***                  04/15/24
*** AERMET - VERSION 16216 ***
***                                     ***

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      VOL1      , VOL2      ,
      VOL3      , VOL4      , VOL5      ,
VOL7      , VOL8      , VOL9      , VOL10      ,
VOL12      , VOL13      ,
VOL15      , VOL16      , VOL17      , VOL18      ,
VOL20      , VOL21      ,
VOL23      , VOL24      , VOL25      , VOL26      ,
VOL28      , . . .

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

\*\* CONC OF PM\_10 IN  
MICROGRAMS/M\*\*3 \*\*

| X-COORD (M)<br>(M)                                                                      | Y-COORD (M)<br>CONC (YYMMDDHH) | CONC (YYMMDDHH)     | X-COORD (M) | Y-COORD  |
|-----------------------------------------------------------------------------------------|--------------------------------|---------------------|-------------|----------|
| 459503.27                                                                               | 3782889.01                     | 0.01035m (15010924) | 459388.10   |          |
| 3783065.74                                                                              | 0.01459 (16111924)             |                     |             |          |
| 459382.29                                                                               | 3783016.73                     | 0.01347 (13120824)  | 459350.12   |          |
| 3783155.49                                                                              | 0.01807 (16111924)             |                     |             |          |
| 459320.33                                                                               | 3783264.86                     | 0.02098 (16111224)  | 463904.58   |          |
| 3786591.83                                                                              | 0.01809m (13112024)            |                     |             |          |
| 466077.15                                                                               | 3784031.33                     | 0.00482m (13112024) | 466200.85   |          |
| 3784253.98                                                                              | 0.00486m (13112024)            |                     |             |          |
| 465960.20                                                                               | 3784644.19                     | 0.00553m (13112024) | 466195.23   |          |
| 3784596.96                                                                              | 0.00512m (13112024)            |                     |             |          |
| 462710.50                                                                               | 3782876.40                     | 0.01155m (15010924) | 462069.84   |          |
| 3783383.52                                                                              | 0.02131m (15010924)            |                     |             |          |
| 462277.17                                                                               | 3783298.31                     | 0.01776m (15010924) | 461797.05   |          |
| 3783468.72                                                                              | 0.02649m (15010924)            |                     |             |          |
| *** AERMOD - VERSION 23132 *** ** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen |                                |                     |             |          |
| SP\15585 Ops H *** 04/15/24                                                             |                                |                     |             |          |
| *** AERMET - VERSION 16216 ***                                                          |                                |                     |             |          |
| ***                                                                                     |                                |                     |             |          |
|                                                                                         |                                |                     |             | 17:51:21 |

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

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM\_10 IN  
MICROGRAMS/M\*\*3 \*\*

| GROUP ID<br>ZELEV, ZHILL, ZFLAG) | OF TYPE<br>GRID-ID | AVERAGE CONC<br>(YYMMDDHH) | DATE | NETWORK<br>RECEPTOR (XR, YR, |
|----------------------------------|--------------------|----------------------------|------|------------------------------|
| ALL HIGH 1ST HIGH VALUE IS       | 0.18305            | ON 16121124:               | AT ( | 462604.90, 3786782.62,       |
| 635.54, 1734.00,                 | 2.00)              | DC                         |      |                              |

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

|                                                                                         |  |  |  |          |
|-----------------------------------------------------------------------------------------|--|--|--|----------|
| *** AERMOD - VERSION 23132 *** ** C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen |  |  |  |          |
| SP\15585 Ops H *** 04/15/24                                                             |  |  |  |          |
| *** AERMET - VERSION 16216 ***                                                          |  |  |  |          |
| ***                                                                                     |  |  |  |          |
|                                                                                         |  |  |  | 17:51:21 |

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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 7 Warning Message(s)  
A Total of 838 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 40 Calm Hours Identified  
  
A Total of 798 Missing Hours Identified ( 1.82 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 267 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 267 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W438 8800 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12010216  
MX W438 11536 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12042516  
MX W420 16779 METQA: Wind Speed Out-of-Range. KURDAT = 12113003  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 15010101  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 1 year gap

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

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 4/15/2024
** File: C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops PM25\15585 Ops
PM25.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen SP\15585 Ops H
  MODELOPT DFAULT CONC
  AVERTIME 24
  URBANOPT 2035210 San_Bernardino_County
  POLLUTID PM_2.5
  FLAGPOLE 2.00
  RUNORNOT RUN
  ERRORFIL "15585 Ops PM25.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      461693.740    3786276.453    643.610
LOCATION VOL2      VOLUME      461646.169    3786333.174    642.840
LOCATION VOL3      VOLUME      461591.280    3786386.232    647.830
LOCATION VOL4      VOLUME      461541.881    3786437.462    649.230
LOCATION VOL5      VOLUME      461499.799    3786483.202    650.290
LOCATION VOL6      VOLUME      461461.378    3786530.772    651.510
LOCATION VOL7      VOLUME      461408.319    3786578.342    653.920
LOCATION VOL8      VOLUME      461452.229    3786636.890    648.030
LOCATION VOL9      VOLUME      461512.607    3786686.289    645.570
LOCATION VOL10     VOLUME      461572.984    3786730.200    644.910
LOCATION VOL11     VOLUME      461366.238    3786625.912    655.580
LOCATION VOL12     VOLUME      461289.394    3786678.971    662.030
LOCATION VOL13     VOLUME      461373.556    3786706.415    654.400
LOCATION VOL14     VOLUME      461441.252    3786713.733    647.890
LOCATION VOL15     VOLUME      461234.505    3786728.370    667.840
LOCATION VOL16     VOLUME      461199.743    3786774.111    667.480
LOCATION VOL17     VOLUME      461152.173    3786821.681    666.390
LOCATION VOL18     VOLUME      461086.307    3786863.762    668.160
LOCATION VOL19     VOLUME      461038.737    3786904.013    673.160
LOCATION VOL20     VOLUME      460978.359    3786938.776    680.480
LOCATION VOL21     VOLUME      460927.130    3786993.664    681.640
LOCATION VOL22     VOLUME      460877.731    3787050.382    684.380
LOCATION VOL23     VOLUME      460837.479    3787107.100    683.950
LOCATION VOL24     VOLUME      460804.546    3787160.159    681.640
LOCATION VOL25     VOLUME      460749.517    3787211.229    680.350
LOCATION VOL26     VOLUME      460704.572    3787274.681    677.670
LOCATION VOL27     VOLUME      460655.661    3787332.845    679.400
LOCATION VOL28     VOLUME      460593.531    3787398.940    683.870

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|                |        |            |             |         |
|----------------|--------|------------|-------------|---------|
| LOCATION VOL29 | VOLUME | 460639.798 | 3787451.816 | 679.140 |
| LOCATION VOL30 | VOLUME | 460683.421 | 3787401.584 | 675.790 |
| LOCATION VOL31 | VOLUME | 460741.585 | 3787356.639 | 670.810 |
| LOCATION VOL32 | VOLUME | 460790.496 | 3787281.290 | 670.000 |
| LOCATION VOL33 | VOLUME | 460875.098 | 3787289.222 | 670.390 |
| LOCATION VOL34 | VOLUME | 460929.296 | 3787227.092 | 670.660 |
| LOCATION VOL35 | VOLUME | 460840.729 | 3787209.907 | 677.570 |
| LOCATION VOL36 | VOLUME | 460884.352 | 3787164.962 | 677.960 |
| LOCATION VOL37 | VOLUME | 460967.632 | 3787141.168 | 672.840 |
| LOCATION VOL38 | VOLUME | 460921.365 | 3787088.291 | 678.890 |
| LOCATION VOL39 | VOLUME | 460967.632 | 3787063.175 | 676.310 |
| LOCATION VOL40 | VOLUME | 461048.268 | 3787114.729 | 668.480 |
| LOCATION VOL41 | VOLUME | 461007.289 | 3786998.401 | 675.500 |
| LOCATION VOL42 | VOLUME | 461052.234 | 3787052.600 | 669.780 |
| LOCATION VOL43 | VOLUME | 461134.193 | 3787056.565 | 661.990 |
| LOCATION VOL44 | VOLUME | 461082.638 | 3786975.929 | 671.770 |
| LOCATION VOL45 | VOLUME | 461120.973 | 3786917.765 | 665.910 |
| LOCATION VOL46 | VOLUME | 461167.240 | 3786986.504 | 660.060 |
| LOCATION VOL47 | VOLUME | 461253.164 | 3786983.860 | 656.410 |
| LOCATION VOL48 | VOLUME | 461208.219 | 3786903.224 | 658.460 |
| LOCATION VOL49 | VOLUME | 461234.658 | 3786831.841 | 660.330 |
| LOCATION VOL50 | VOLUME | 461291.500 | 3786905.868 | 655.270 |
| LOCATION VOL51 | VOLUME | 461374.780 | 3786887.361 | 652.160 |
| LOCATION VOL52 | VOLUME | 461317.938 | 3786823.909 | 656.140 |
| LOCATION VOL53 | VOLUME | 461287.534 | 3786757.814 | 660.450 |
| LOCATION VOL54 | VOLUME | 461373.458 | 3786786.896 | 653.480 |
| LOCATION VOL55 | VOLUME | 461455.417 | 3786801.437 | 648.470 |
| LOCATION VOL56 | VOLUME | 461385.355 | 3786838.450 | 651.810 |
| LOCATION VOL57 | VOLUME | 461529.444 | 3786768.389 | 645.070 |
| LOCATION VOL58 | VOLUME | 462577.220 | 3786719.492 | 633.360 |
| LOCATION VOL59 | VOLUME | 462660.520 | 3786693.681 | 632.580 |
| LOCATION VOL60 | VOLUME | 462744.406 | 3786674.322 | 630.900 |
| LOCATION VOL61 | VOLUME | 462828.880 | 3786650.857 | 628.260 |
| LOCATION VOL62 | VOLUME | 462868.770 | 3786625.633 | 626.420 |
| LOCATION VOL63 | VOLUME | 462848.238 | 3786541.746 | 623.050 |
| LOCATION VOL64 | VOLUME | 462835.332 | 3786455.513 | 622.000 |
| LOCATION VOL65 | VOLUME | 462621.216 | 3786659.657 | 631.720 |
| LOCATION VOL66 | VOLUME | 462660.520 | 3786609.794 | 629.090 |
| LOCATION VOL67 | VOLUME | 462684.571 | 3786547.612 | 627.210 |
| LOCATION VOL68 | VOLUME | 462745.580 | 3786589.849 | 627.120 |
| LOCATION VOL69 | VOLUME | 462807.175 | 3786566.971 | 624.980 |
| LOCATION VOL70 | VOLUME | 462716.835 | 3786469.005 | 624.430 |
| LOCATION VOL71 | VOLUME | 462751.446 | 3786439.087 | 622.370 |
| LOCATION VOL72 | VOLUME | 462835.332 | 3786419.729 | 622.000 |
| LOCATION VOL73 | VOLUME | 462764.351 | 3786515.348 | 623.530 |
| LOCATION VOL74 | VOLUME | 461061.948 | 3784936.739 | 654.040 |
| LOCATION VOL75 | VOLUME | 461059.795 | 3784850.618 | 644.040 |
| LOCATION VOL76 | VOLUME | 461057.642 | 3784762.345 | 642.000 |
| LOCATION VOL77 | VOLUME | 461141.610 | 3784805.405 | 641.650 |
| LOCATION VOL78 | VOLUME | 461139.457 | 3784721.438 | 639.020 |
| LOCATION VOL79 | VOLUME | 461225.577 | 3784805.405 | 636.620 |
| LOCATION VOL80 | VOLUME | 461225.577 | 3784723.591 | 634.040 |
| LOCATION VOL81 | VOLUME | 461223.667 | 3784635.373 | 631.360 |
| LOCATION VOL82 | VOLUME | 461156.778 | 3784658.706 | 636.710 |
| LOCATION VOL83 | VOLUME | 461312.335 | 3784885.818 | 641.380 |
| LOCATION VOL84 | VOLUME | 461310.779 | 3784801.818 | 632.510 |
| LOCATION VOL85 | VOLUME | 461312.335 | 3784714.706 | 629.850 |
| LOCATION VOL86 | VOLUME | 461309.224 | 3784630.706 | 628.160 |
| LOCATION VOL87 | VOLUME | 461284.335 | 3784548.261 | 629.430 |
| LOCATION VOL88 | VOLUME | 461369.891 | 3784543.594 | 624.320 |
| LOCATION VOL89 | VOLUME | 461289.001 | 3784462.705 | 624.470 |
| LOCATION VOL90 | VOLUME | 461225.223 | 3784422.260 | 627.230 |
| LOCATION VOL91 | VOLUME | 461371.446 | 3784458.038 | 621.330 |
| LOCATION VOL92 | VOLUME | 461270.334 | 3784338.260 | 620.310 |
| LOCATION VOL93 | VOLUME | 461310.779 | 3784375.593 | 619.290 |
| LOCATION VOL94 | VOLUME | 461396.335 | 3784627.595 | 624.280 |



|          |        |        |            |             |         |
|----------|--------|--------|------------|-------------|---------|
| LOCATION | VOL95  | VOLUME | 461397.891 | 3784711.595 | 626.590 |
| LOCATION | VOL96  | VOLUME | 461396.335 | 3784797.151 | 630.160 |
| LOCATION | VOL97  | VOLUME | 461483.447 | 3784714.706 | 622.870 |
| LOCATION | VOL98  | VOLUME | 461481.891 | 3784795.596 | 626.210 |
| LOCATION | VOL99  | VOLUME | 461486.558 | 3784879.596 | 631.090 |
| LOCATION | VOL100 | VOLUME | 461569.003 | 3784776.929 | 621.370 |
| LOCATION | VOL101 | VOLUME | 461643.670 | 3784787.818 | 622.790 |
| LOCATION | VOL102 | VOLUME | 461562.781 | 3784825.151 | 625.070 |

\*\* Source Parameters \*\*

|          |       |             |       |        |       |
|----------|-------|-------------|-------|--------|-------|
| SRCPARAM | VOL1  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL2  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL3  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL4  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL5  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL6  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL7  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL8  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL9  | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL10 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL11 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL12 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL13 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL14 | 0.000060479 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL16 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL17 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL18 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL19 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL20 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL21 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL22 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL23 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL24 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL25 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL26 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL27 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL28 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL29 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL30 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL31 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL32 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL33 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL34 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL35 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL36 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL37 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL38 | 0.000060479 | 3.490 | 19.572 | 3.250 |
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| SRCPARAM | VOL40 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL41 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL42 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL43 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL44 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL45 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL46 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL47 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL48 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL49 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL50 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL51 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL52 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL53 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL54 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL55 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL56 | 0.000060479 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL57 | 0.000060479 | 3.490 | 19.572 | 3.250 |

|          |        |              |       |        |       |
|----------|--------|--------------|-------|--------|-------|
| SRCPARAM | VOL58  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL59  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL60  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL61  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL62  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL63  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL64  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL65  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL66  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL67  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL68  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL69  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL70  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL71  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL72  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL73  | 0.0001751371 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL74  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL75  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL76  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL77  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL78  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL79  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL80  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL81  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL82  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL83  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL84  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL85  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL86  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL87  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL88  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL89  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL90  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL91  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL92  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL93  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL94  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL95  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL96  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL97  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL98  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL99  | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL100 | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL101 | 0.0002910551 | 3.490 | 19.572 | 3.250 |
| SRCPARAM | VOL102 | 0.0002910551 | 3.490 | 19.572 | 3.250 |

URBANSRC ALL

SRCGROUP ALL

SO FINISHED

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\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "15585 Ops PM25.rou"

RE FINISHED

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\*\* AERMOD Meteorology Pathway

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\*\*

\*\*

ME STARTING

SURFFILE FONT\_V9\_ADJU\FONT\_v9.SFC

PROFFILE FONT\_V9\_ADJU\FONT\_v9.PFL

SURFDATA 3102 2011  
UAIRDATA 3190 2011  
SITEDATA 99999 2011  
PROFBASE 367.0 METERS

ME FINISHED

\*\*  
\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 24 1ST

\*\* Auto-Generated Plotfiles

PLOTFILE 24 ALL 1ST "15585 OPS PM25.AD\24H1GALL.PLT" 31

SUMMFILE "15585 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 267 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 267 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

\*\*\*\*\*

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

\*\*\*\*\*

FF \*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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17:57:39

PAGE 1

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

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

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-----

\*\* 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 102 Source(s),

for Total of 1 Urban Area(s):  
Urban Population = 2035210.0 ; Urban Roughness Length = 1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* TEMP\_Sub - Meteorological data includes TEMP substitutions  
\* Model 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: 102 Source(s); 1 Source Group(s); and 94 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 102 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) = 367.00 ; 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 = 3.6 MB of RAM.

\*\*Input Runstream File:

aermod.inp

\*\*Output Print File:

aermod.out

\*\*Detailed Error/Message File: 15585 Ops

PM25.err

\*\*File for Summary of Results: 15585 Ops

PM25.sum

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24

\*\*\* AERMET - VERSION 16216 \*\*\*

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

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

NUMBER EMISSION RATE

BASE

RELEASE

INIT.

INIT.

| SOURCE   | URBAN       | EMISSION RATE | AIRCRAFT |           | ELEV.    | HEIGHT   | SY       | SZ   |
|----------|-------------|---------------|----------|-----------|----------|----------|----------|------|
| SOURCE   | PART.       | (GRAMS/SEC)   | X        | Y         | (METERS) | (METERS) | (METERS) |      |
| ID       | SCALAR VARY |               |          |           |          |          |          |      |
| (METERS) | CATS.       | BY            |          |           |          |          |          |      |
| -----    |             |               |          |           |          |          |          |      |
| VOL1     | 0           | 0.60479E-04   | 461693.7 | 3786276.5 | 643.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL2     | 0           | 0.60479E-04   | 461646.2 | 3786333.2 | 642.8    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL3     | 0           | 0.60479E-04   | 461591.3 | 3786386.2 | 647.8    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL4     | 0           | 0.60479E-04   | 461541.9 | 3786437.5 | 649.2    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL5     | 0           | 0.60479E-04   | 461499.8 | 3786483.2 | 650.3    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL6     | 0           | 0.60479E-04   | 461461.4 | 3786530.8 | 651.5    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL7     | 0           | 0.60479E-04   | 461408.3 | 3786578.3 | 653.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL8     | 0           | 0.60479E-04   | 461452.2 | 3786636.9 | 648.0    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL9     | 0           | 0.60479E-04   | 461512.6 | 3786686.3 | 645.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL10    | 0           | 0.60479E-04   | 461573.0 | 3786730.2 | 644.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL11    | 0           | 0.60479E-04   | 461366.2 | 3786625.9 | 655.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL12    | 0           | 0.60479E-04   | 461289.4 | 3786679.0 | 662.0    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL13    | 0           | 0.60479E-04   | 461373.6 | 3786706.4 | 654.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL14    | 0           | 0.60479E-04   | 461441.3 | 3786713.7 | 647.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL15    | 0           | 0.60479E-04   | 461234.5 | 3786728.4 | 667.8    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL16    | 0           | 0.60479E-04   | 461199.7 | 3786774.1 | 667.5    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL17    | 0           | 0.60479E-04   | 461152.2 | 3786821.7 | 666.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL18    | 0           | 0.60479E-04   | 461086.3 | 3786863.8 | 668.2    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL19    | 0           | 0.60479E-04   | 461038.7 | 3786904.0 | 673.2    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL20    | 0           | 0.60479E-04   | 460978.4 | 3786938.8 | 680.5    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL21    | 0           | 0.60479E-04   | 460927.1 | 3786993.7 | 681.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL22    | 0           | 0.60479E-04   | 460877.7 | 3787050.4 | 684.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL23    | 0           | 0.60479E-04   | 460837.5 | 3787107.1 | 683.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL24    | 0           | 0.60479E-04   | 460804.5 | 3787160.2 | 681.6    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL25    | 0           | 0.60479E-04   | 460749.5 | 3787211.2 | 680.3    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL26    | 0           | 0.60479E-04   | 460704.6 | 3787274.7 | 677.7    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL27    | 0           | 0.60479E-04   | 460655.7 | 3787332.8 | 679.4    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL28    | 0           | 0.60479E-04   | 460593.5 | 3787398.9 | 683.9    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |
| VOL29    | 0           | 0.60479E-04   | 460639.8 | 3787451.8 | 679.1    | 3.49     | 19.57    | 3.25 |
| YES      |             | NO            |          |           |          |          |          |      |

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                                     *** 17:57:39

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

| SOURCE   |  | NUMBER | EMISSION    | RATE     | BASE     |          | RELEASE  | INIT.    | INIT. |
|----------|--|--------|-------------|----------|----------|----------|----------|----------|-------|
| SOURCE   |  | URBAN  | 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          |          |          |          |          |          |       |
| -----    |  |        |             |          |          |          |          |          |       |
| -----    |  |        |             |          |          |          |          |          |       |

|       |   |             |          |           |       |      |       |      |
|-------|---|-------------|----------|-----------|-------|------|-------|------|
| VOL41 | 0 | 0.60479E-04 | 461007.3 | 3786998.4 | 675.5 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL42 | 0 | 0.60479E-04 | 461052.2 | 3787052.6 | 669.8 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL43 | 0 | 0.60479E-04 | 461134.2 | 3787056.6 | 662.0 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL44 | 0 | 0.60479E-04 | 461082.6 | 3786975.9 | 671.8 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL45 | 0 | 0.60479E-04 | 461121.0 | 3786917.8 | 665.9 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL46 | 0 | 0.60479E-04 | 461167.2 | 3786986.5 | 660.1 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL47 | 0 | 0.60479E-04 | 461253.2 | 3786983.9 | 656.4 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL48 | 0 | 0.60479E-04 | 461208.2 | 3786903.2 | 658.5 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL49 | 0 | 0.60479E-04 | 461234.7 | 3786831.8 | 660.3 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL50 | 0 | 0.60479E-04 | 461291.5 | 3786905.9 | 655.3 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL51 | 0 | 0.60479E-04 | 461374.8 | 3786887.4 | 652.2 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |
| VOL52 | 0 | 0.60479E-04 | 461317.9 | 3786823.9 | 656.1 | 3.49 | 19.57 | 3.25 |
| YES   |   | NO          |          |           |       |      |       |      |

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

| SOURCE<br>SOURCE<br>ID<br>(METERS) | SCALAR<br>VARY<br>CATS. | NUMBER      | EMISSION | RATE | AIRCRAFT |          | BASE     | RELEASE  | INIT.    | INIT. |
|------------------------------------|-------------------------|-------------|----------|------|----------|----------|----------|----------|----------|-------|
|                                    |                         | URBAN       | EMISSION | RATE | X        | Y        | ELEV.    | HEIGHT   | SY       | SZ    |
|                                    |                         | (GRAMS/SEC) |          |      | (METERS) | (METERS) | (METERS) | (METERS) | (METERS) |       |
| BY                                 |                         |             |          |      |          |          |          |          |          |       |
| -----                              |                         |             |          |      |          |          |          |          |          |       |
| -----                              |                         |             |          |      |          |          |          |          |          |       |

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\*\*\* SOURCE TDS DEFTING SOURCE GROUPS \*\*\*



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|      |        |   |       |   |       |   |       |   |       |   |       |   |
|------|--------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
| ALL  | VOL1   | , | VOL2  | , | VOL3  | , | VOL4  | , | VOL5  | , | VOL6  | , |
| VOL7 | , VOL8 | , |       |   |       |   |       |   |       |   |       |   |
|      | VOL9   | , | VOL10 | , | VOL11 | , | VOL12 | , | VOL13 | , | VOL14 | , |
|      | VOL15  | , | VOL16 | , |       |   |       |   |       |   |       |   |
|      | VOL17  | , | VOL18 | , | VOL19 | , | VOL20 | , | VOL21 | , | VOL22 | , |
|      | VOL23  | , | VOL24 | , |       |   |       |   |       |   |       |   |
|      | VOL25  | , | VOL26 | , | VOL27 | , | VOL28 | , | VOL29 | , | VOL30 | , |
|      | VOL31  | , | VOL32 | , |       |   |       |   |       |   |       |   |
|      | VOL33  | , | VOL34 | , | VOL35 | , | VOL36 | , | VOL37 | , | VOL38 | , |
|      | VOL39  | , | VOL40 | , |       |   |       |   |       |   |       |   |
|      | VOL41  | , | VOL42 | , | VOL43 | , | VOL44 | , | VOL45 | , | VOL46 | , |
|      | VOL47  | , | VOL48 | , |       |   |       |   |       |   |       |   |
|      | VOL49  | , | VOL50 | , | VOL51 | , | VOL52 | , | VOL53 | , | VOL54 | , |
|      | VOL55  | , | VOL56 | , |       |   |       |   |       |   |       |   |
|      | VOL57  | , | VOL58 | , | VOL59 | , | VOL60 | , | VOL61 | , | VOL62 | , |
|      | VOL63  | , | VOL64 | , |       |   |       |   |       |   |       |   |
|      | VOL65  | , | VOL66 | , | VOL67 | , | VOL68 | , | VOL69 | , | VOL70 | , |
|      | VOL71  | , | VOL72 | , |       |   |       |   |       |   |       |   |
|      | VOL73  | , | VOL74 | , | VOL75 | , | VOL76 | , | VOL77 | , | VOL78 | , |
|      | VOL79  | , | VOL80 | , |       |   |       |   |       |   |       |   |
|      | VOL81  | , | VOL82 | , | VOL83 | , | VOL84 | , | VOL85 | , | VOL86 | , |
|      | VOL87  | , | VOL88 | , |       |   |       |   |       |   |       |   |
|      | VOL89  | , | VOL90 | , | VOL91 | , | VOL92 | , | VOL93 | , | VOL94 | , |
|      | VOL95  | , | VOL96 | , |       |   |       |   |       |   |       |   |

VOL97 , VOL98 , VOL99 , VOL100 , VOL101 , VOL102 ,

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

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

| URBAN ID | URBAN POP | SOURCE IDs |       |      |       |      |       |      |       |      |       |   |
|----------|-----------|------------|-------|------|-------|------|-------|------|-------|------|-------|---|
| -----    | -----     | -----      |       |      |       |      |       |      |       |      |       |   |
|          | 2035210.  | VOL1       | ,     | VOL2 | ,     | VOL3 | ,     | VOL4 | ,     | VOL5 | ,     |   |
|          | VOL6      | , VOL7     | ,     |      |       |      |       |      |       |      |       |   |
| VOL8     | ,         |            |       |      |       |      |       |      |       |      |       |   |
|          | VOL9      | ,          | VOL10 | ,    | VOL11 | ,    | VOL12 | ,    | VOL13 | ,    | VOL14 | , |
|          | VOL15     | ,          | VOL16 | ,    |       |      |       |      |       |      |       |   |
|          | VOL17     | ,          | VOL18 | ,    | VOL19 | ,    | VOL20 | ,    | VOL21 | ,    | VOL22 | , |
|          | VOL23     | ,          | VOL24 | ,    |       |      |       |      |       |      |       |   |
|          | VOL25     | ,          | VOL26 | ,    | VOL27 | ,    | VOL28 | ,    | VOL29 | ,    | VOL30 | , |

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*** AERMET - VERSION 16216 ***
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|                        |        |         |       |                        |
|------------------------|--------|---------|-------|------------------------|
| ( 463154.3, 3786819.6, | 631.4, | 1734.0, | 2.0); | ( 463167.5, 3786865.5, |
| 633.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 463147.6, 3786873.2, | 634.1, | 1734.0, | 2.0); | ( 463129.9, 3786877.4, |
| 634.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463110.0, 3786886.9, | 635.4, | 1734.0, | 2.0); | ( 463059.0, 3786966.9, |
| 641.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 463074.9, 3787087.9, | 646.7, | 1734.0, | 2.0); | ( 463102.5, 3787076.0, |
| 645.0, 1734.0,         | 2.0);  |         |       |                        |
| ( 462919.9, 3787058.3, | 650.6, | 1734.0, | 2.0); | ( 463042.0, 3787098.7, |
| 649.3, 1734.0,         | 2.0);  |         |       |                        |
| ( 462998.1, 3787106.0, | 651.7, | 1734.0, | 2.0); | ( 462944.0, 3787123.4, |
| 653.8, 1734.0,         | 2.0);  |         |       |                        |
| ( 462850.6, 3787079.7, | 652.9, | 1734.0, | 2.0); | ( 462807.5, 3787091.0, |
| 653.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462821.9, 3787159.9, | 658.2, | 1734.0, | 2.0); | ( 462755.2, 3787105.3, |
| 654.6, 1734.0,         | 2.0);  |         |       |                        |
| ( 462743.8, 3787181.3, | 659.7, | 1734.0, | 2.0); | ( 462870.3, 3787147.1, |
| 657.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462890.0, 3787138.7, | 656.5, | 1734.0, | 2.0); | ( 462725.4, 3787114.5, |
| 655.2, 1734.0,         | 2.0);  |         |       |                        |
| ( 462685.8, 3787125.8, | 655.9, | 1734.0, | 2.0); | ( 462656.2, 3787132.7, |
| 656.5, 1734.0,         | 2.0);  |         |       |                        |
| ( 462632.9, 3787123.9, | 655.6, | 1734.0, | 2.0); | ( 462595.9, 3787152.0, |
| 658.4, 1734.0,         | 2.0);  |         |       |                        |
| ( 462571.7, 3787160.3, | 658.8, | 1734.0, | 2.0); | ( 462473.7, 3787233.0, |
| 657.1, 1734.0,         | 2.0);  |         |       |                        |
| ( 462534.0, 3787244.6, | 659.9, | 1734.0, | 2.0); | ( 462400.1, 3787275.4, |

|             |            |        |         |       |                        |
|-------------|------------|--------|---------|-------|------------------------|
| 659.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462229.2, | 3787434.2, | 674.5, | 1734.0, | 2.0); | ( 462257.0, 3787342.4, |
| 668.1,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462128.4, | 3787527.6, | 684.6, | 1734.0, | 2.0); | ( 462183.2, 3787452.4, |
| 675.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462022.5, | 3787623.1, | 687.6, | 1734.0, | 2.0); | ( 461918.3, 3787709.0, |
| 694.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462038.5, | 3787667.1, | 695.0, | 1734.0, | 2.0); | ( 461424.9, 3788158.1, |
| 731.4,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461926.8, | 3788065.0, | 727.1, | 1734.0, | 2.0); | ( 461937.8, 3787798.6, |
| 702.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461956.2, | 3787956.4, | 718.2, | 1734.0, | 2.0); | ( 461303.4, 3788188.5, |
| 726.6,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461132.5, | 3788399.4, | 744.9, | 1734.0, | 2.0); | ( 461058.7, 3788731.5, |
| 757.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460943.7, | 3788817.1, | 758.9, | 1734.0, | 2.0); | ( 457324.4, 3790478.1, |
| 770.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 457715.3, | 3790467.0, | 770.2, | 1734.0, | 2.0); | ( 457385.4, 3790493.9, |
| 772.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 457752.2, | 3790534.9, | 771.1, | 1734.0, | 2.0); | ( 458383.4, 3790238.2, |
| 751.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 463178.4, | 3786251.1, | 613.0, | 1734.0, | 2.0); | ( 462814.4, 3786754.2, |
| 633.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462674.0, | 3786877.7, | 639.7, | 1734.0, | 2.0); | ( 462604.9, 3786782.6, |
| 635.5,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462768.8, | 3786780.7, | 634.5, | 1734.0, | 2.0); | ( 461416.7, 3783609.8, |
| 589.4,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461655.6, | 3783762.7, | 593.9, | 1734.0, | 2.0); | ( 461824.6, 3783749.2, |
| 599.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461846.6, | 3783749.2, | 600.8, | 1734.0, | 2.0); | ( 461939.4, 3783743.2, |
| 615.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462019.9, | 3783739.8, | 613.5, | 1734.0, | 2.0); | ( 462121.1, 3783735.6, |
| 606.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 462214.8, | 3783729.3, | 610.5, | 1734.0, | 2.0); | ( 462334.6, 3783705.5, |
| 621.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461658.1, | 3783690.3, | 600.5, | 1734.0, | 2.0); | ( 461041.9, 3783495.8, |
| 601.3,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461249.5, | 3783484.0, | 594.5, | 1734.0, | 2.0); | ( 461451.2, 3783502.2, |
| 587.5,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461567.3, | 3783209.6, | 582.7, | 1734.0, | 2.0); | ( 461502.8, 3783145.1, |
| 583.9,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 461612.5, | 3783185.0, | 580.9, | 1734.0, | 2.0); | ( 460924.5, 3783394.0, |
| 606.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460848.3, | 3783334.1, | 610.0, | 1734.0, | 2.0); | ( 460765.0, 3783264.4, |
| 611.6,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460668.8, | 3783186.4, | 612.4, | 1734.0, | 2.0); | ( 460574.4, 3783105.5, |
| 612.8,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460496.5, | 3783051.5, | 611.6, | 1734.0, | 2.0); | ( 460712.7, 3783532.6, |
| 612.5,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460583.9, | 3783527.4, | 618.6, | 1734.0, | 2.0); | ( 460501.9, 3783491.8, |
| 620.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 460403.7, | 3783447.4, | 622.7, | 1734.0, | 2.0); | ( 460304.0, 3783403.0, |
| 626.7,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 459503.3, | 3782889.0, | 625.8, | 1734.0, | 2.0); | ( 459388.1, 3783065.7, |
| 632.6,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 459382.3, | 3783016.7, | 631.6, | 1734.0, | 2.0); | ( 459350.1, 3783155.5, |
| 636.1,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 459320.3, | 3783264.9, | 639.9, | 1734.0, | 2.0); | ( 463904.6, 3786591.8, |
| 615.2,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 466077.1, | 3784031.3, | 535.0, | 1734.0, | 2.0); | ( 466200.8, 3784254.0, |
| 536.0,      | 1734.0,    | 2.0);  |         |       |                        |
| ( 465960.2, | 3784644.2, | 547.3, | 1734.0, | 2.0); | ( 466195.2, 3784597.0, |
| 545.5,      | 1734.0,    | 2.0);  |         |       |                        |



FREE

Profile format:  
FREE

Surface station no.: 3102  
Name: UNKNOWN  
UNKNOWN  
Year: 2011

Upper air station no.: 3190  
Name:  
Year: 2011

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    |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 01  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 204.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 69.  |    |    | 9.1 |     | 276.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 02  | -23.8 | 0.239 | -9.000 | -9.000 | -999. | 281.  |     | 63.0  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 52.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 03  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 32.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 04  | -1.4  | 0.067 | -9.000 | -9.000 | -999. | 57.   |     | 18.3  | 0.25 | 2.82  | 1.00   | 0.40 |    |
| 27.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 05  | -18.6 | 0.194 | -9.000 | -9.000 | -999. | 204.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 51.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 06  | -29.7 | 0.296 | -9.000 | -9.000 | -999. | 387.  |     | 96.6  | 0.25 | 2.82  | 1.00   | 2.70 |    |
| 53.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 07  | -24.0 | 0.239 | -9.000 | -9.000 | -999. | 282.  |     | 63.0  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 70.  |    |    | 9.1 |     | 274.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 08  | -8.4  | 0.138 | -9.000 | -9.000 | -999. | 127.  |     | 27.3  | 0.25 | 2.82  | 0.54   | 1.30 |    |
| 72.  |    |    | 9.1 |     | 275.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 09  | 44.3  | 0.280 | 0.571  | 0.005  | 147.  | 356.  |     | -43.5 | 0.25 | 2.82  | 0.32   | 2.20 |    |
| 67.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 10  | 122.7 | 0.264 | 0.952  | 0.005  | 247.  | 326.  |     | -13.2 | 0.25 | 2.82  | 0.25   | 1.80 |    |
| 83.  |    |    | 9.1 |     | 279.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 11  | 179.8 | 0.316 | 1.733  | 0.005  | 1017. | 426.  |     | -15.4 | 0.25 | 2.82  | 0.22   | 2.20 |    |
| 58.  |    |    | 9.1 |     | 282.0 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 12  | 206.0 | 0.320 | 1.940  | 0.008  | 1244. | 435.  |     | -14.0 | 0.25 | 2.82  | 0.21   | 2.20 |    |
| 115. |    |    | 9.1 |     | 283.1 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 13  | 132.6 | 0.214 | 1.733  | 0.009  | 1377. | 243.  |     | -6.5  | 0.25 | 2.82  | 0.21   | 1.30 |    |
| 147. |    |    | 9.1 |     | 284.2 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 14  | 147.0 | 0.216 | 1.818  | 0.009  | 1431. | 242.  |     | -6.0  | 0.25 | 2.82  | 0.23   | 1.30 |    |
| 219. |    |    | 9.1 |     | 284.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 15  | 104.0 | 0.208 | 1.633  | 0.009  | 1468. | 228.  |     | -7.6  | 0.25 | 2.82  | 0.26   | 1.30 |    |
| 126. |    |    | 9.1 |     | 285.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 16  | 26.4  | 0.140 | 1.037  | 0.009  | 1477. | 127.  |     | -9.1  | 0.25 | 2.82  | 0.35   | 0.90 |    |
| 151. |    |    | 9.1 |     | 284.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 17  | -9.0  | 0.137 | -9.000 | -9.000 | -999. | 121.  |     | 24.9  | 0.25 | 2.82  | 0.63   | 1.30 |    |
| 69.  |    |    | 9.1 |     | 283.1 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 18  | -33.4 | 0.342 | -9.000 | -9.000 | -999. | 481.  |     | 129.0 | 0.25 | 2.82  | 1.00   | 3.10 |    |
| 81.  |    |    | 9.1 |     | 281.4 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 19  | -33.6 | 0.342 | -9.000 | -9.000 | -999. | 481.  |     | 128.9 | 0.25 | 2.82  | 1.00   | 3.10 |    |
| 51.  |    |    | 9.1 |     | 279.9 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 20  | -23.6 | 0.239 | -9.000 | -9.000 | -999. | 287.  |     | 63.1  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 77.  |    |    | 9.1 |     | 278.8 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 21  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 53.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 22  | -23.7 | 0.239 | -9.000 | -9.000 | -999. | 281.  |     | 63.0  | 0.25 | 2.82  | 1.00   | 2.20 |    |
| 58.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 23  | -18.5 | 0.194 | -9.000 | -9.000 | -999. | 205.  |     | 41.2  | 0.25 | 2.82  | 1.00   | 1.80 |    |
| 64.  |    |    | 9.1 |     | 277.5 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |
| 11   | 01 | 01 | 1   | 24  | -4.5  | 0.094 | -9.000 | -9.000 | -999. | 74.   |     | 16.3  | 0.25 | 2.82  | 1.00   | 0.90 |    |
| 52.  |    |    | 9.1 |     | 277.0 | 5.5   |        |        |       |       |     |       |      |       |        |      |    |

First hour of profile data

|    |    |    |    |        |   |       |        |         |        |        |        |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
| 11 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 276.5   | 99.0   | -99.00 | -99.00 |
| 11 | 01 | 01 | 01 | 9.1    | 1 | 69.   | 1.80   | -999.0  | 99.0   | -99.00 | -99.00 |

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

\*\*\* AERMOD - VERSION 23132 \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\15585 Glen Helen  
SP\15585 Ops H \*\*\* 04/15/24  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 17:57:39

PAGE 11

\*\*\* 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 , VOL5 ,  
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,  
VOL11 , VOL12 , VOL13 ,  
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,  
VOL19 , VOL20 , VOL21 ,  
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,  
VOL27 , VOL28 , . . . ,

\*\*\* 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) |            |             |         |
| 463154.33   | 3786819.61  | 0.04110    | (12120224) | 463167.45   |         |
| 3786865.52  | 0.04267     | (12120224) |            |             |         |
| 463147.58   | 3786873.25  | 0.04616    | (12120224) | 463129.92   |         |
| 3786877.44  | 0.04858     | (12120224) |            |             |         |
| 463110.04   | 3786886.94  | 0.05162    | (12120224) | 463059.03   |         |
| 3786966.87  | 0.05069     | (12120224) |            |             |         |
| 463074.93   | 3787087.88  | 0.03799    | (12120224) | 463102.53   |         |
| 3787075.96  | 0.03973     | (12120224) |            |             |         |
| 462919.92   | 3787058.29  | 0.03678    | (13120724) | 463042.03   |         |
| 3787098.70  | 0.03570     | (12120224) |            |             |         |
| 462998.09   | 3787105.99  | 0.03265    | (12120224) | 462943.99   |         |
| 3787123.43  | 0.03129     | (13120724) |            |             |         |
| 462850.58   | 3787079.71  | 0.03661    | (13120724) | 462807.52   |         |
| 3787090.97  | 0.03432     | (13120724) |            |             |         |
| 462821.88   | 3787159.87  | 0.02966    | (13120724) | 462755.22   |         |
| 3787105.29  | 0.03016     | (13120724) |            |             |         |
| 462743.77   | 3787181.31  | 0.02438    | (13120724) | 462870.28   |         |
| 3787147.15  | 0.03154     | (13120724) |            |             |         |
| 462889.99   | 3787138.70  | 0.03208    | (13120724) | 462725.43   |         |
| 3787114.51  | 0.02745     | (13120724) |            |             |         |
| 462685.82   | 3787125.77  | 0.02379    | (13120724) | 462656.17   |         |
| 3787132.72  | 0.02167     | (12120324) |            |             |         |
| 462632.89   | 3787123.90  | 0.02383    | (12120324) | 462595.92   |         |
| 3787152.05  | 0.02331     | (12120324) |            |             |         |
| 462571.70   | 3787160.31  | 0.02370    | (12120324) | 462473.70   |         |
| 3787233.03  | 0.02228     | (12120324) |            |             |         |
| 462534.01   | 3787244.58  | 0.02121    | (12120324) | 462400.07   |         |
| 3787275.41  | 0.01916     | (12120324) |            |             |         |
| 462229.16   | 3787434.24  | 0.01558    | (15052824) | 462256.97   |         |
| 3787342.44  | 0.01662     | (15052824) |            |             |         |
| 462128.43   | 3787527.59  | 0.01540    | (15052824) | 462183.16   |         |
| 3787452.38  | 0.01592     | (15052824) |            |             |         |
| 462022.45   | 3787623.08  | 0.01428    | (16121124) | 461918.34   |         |

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*** AERMOD - VERSION 23132 ***      *** C:\Users\Michael Tirohn\Desktop\HRAS\15585 Glen Helen
SP\15585 Ops H ***                  04/15/24
*** AERMET - VERSION 16216 ***
***                                  ***
***                                  17:57:39

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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR
SOURCE GROUP: ALL ***
    INCLUDING SOURCE(S): VOL1      , VOL2      ,
    VOL3      , VOL4      , VOL5      ,
VOL7      , VOL8      , VOL9      , VOL10     ,
VOL12     , VOL13     ,
VOL15     , VOL16     , VOL17     , VOL18     ,
VOL20     , VOL21     ,
VOL23     , VOL24     , VOL25     , VOL26     ,
VOL28     , . . . ,

```

A Total of 0 Fatal Error Message(s)



A Total of 7 Warning Message(s)  
A Total of 838 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 40 Calm Hours Identified  
  
A Total of 798 Missing Hours Identified ( 1.82 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 267 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used 0.50  
ME W187 267 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W438 8800 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12010216  
MX W438 11536 METQA: Convective Velocity Data Out-of-Range. KURDAT = 12042516  
MX W420 16779 METQA: Wind Speed Out-of-Range. KURDAT = 12113003  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 15010101  
MX W450 26305 CHKDAT: Record Out of Sequence in Meteorological File at: 1 year gap

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