Lincoln Way

AIR QUALITY IMPACT ANALYSIS

CITY OF GARDEN GROVE

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LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m^3	Microgram per Cubic Meter
1992 CO Plan	*1992 Federal Attainment Plan for Carbon Monoxide*
1993 CEQA Handbook	*SCAQMD's CEQA Air Quality Handbook (1993)*
2024-2050 RTP/SCS	*2024-2050 Regional Transportation Plan/Sustainable Communities Strategy*
AB 2595	California Clean Air Act
ADA	Americans with Disabilities Act
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
BACT	Best Available Control Technology
BC	Black Carbon
Brief	*Brief of Amicus Curiae by the SCAQMD in the Friant Ranch Case*
C_2Cl_4	Perchloroethylene
C_4H_6	1,3-butadiene
C_6H_6	Benzene
C_2H_3Cl	Vinyl Chloride
C_2H_4O	Acetaldehyde
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CEQA Guidelines	Guidelines for Implementation of the California Environmental Quality Act
CH_2O	Formaldehyde

City	City of Garden Grove
CO	Carbon Monoxide
COH	Coefficient of Haze
COHb	Carboxyhemoglobin
Cr(VI)	Chromium
CTP	Clean Truck Program
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EC	Elemental Carbon
EIR	Environmental Impact Report
EMFAC	EMissions FACtor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
H_2S	Hydrogen Sulfide
HDT	Heavy Duty Trucks
HHDT	Heavy-Heavy-Duty Trucks
HI	Hazard Index
hp	Horsepower
HRA	Health Risk Assessment
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
LST Methodology	*Final Localized Significance Threshold Methodology*
MATES	Multiple Air Toxics Exposure Study
MCY	Motorcycles
MDV	Medium-Duty Vehicles
MEIR	Maximum Exposed Individual
MHDT	Medium-Heavy-Duty Trucks
MICR	Maximum Individual Cancer Risk
MM	Mitigation Measures
MWELO	California Department of Water Resources' Model Water Efficient
N_2	Nitrogen

N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
O_2	Oxygen
O_3	Ozone
O_2 Deficiency	Chronic Hypoxemia
OBD-II	On-Board Diagnostic
ODC	Ozone Depleting Compounds
OEHHA	Office of Environmental Health Hazard Assessment
Pb	Lead
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
ppm	Parts Per Million
Project	Lincoln Way
RECLAIM	Regional Clean Air Incentives Market
REL	Reference Exposure Level
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
SB	Southbound
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_2	Sulfur Dioxide
SO_4	Sulfates
SO_X	Sulfur Oxides
SRA	Source Receptor Area
TA	*Lincoln Way Trip Generation Assessment*
TAC	Toxic Air Contaminant
Title 24	California Building Code
TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
UFP	Ultrafine Particles

VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Lincoln Way Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 4 of this report consistent with Appendix G of the *Guidelines for Implementation of the California Environmental Quality Act* (State *CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	4.4	*Less Than Significant*	*n/a*
Localized Construction Emissions	4.7	*Less Than Significant*	*n/a*
Regional Operational Emissions	4.5	*Less Than Significant*	*n/a*
Localized Operational Emissions	4.8	*Less Than Significant*	*n/a*
CO "Hot Spot" Analysis	4.9	*Less Than Significant*	*n/a*
Air Quality Management Plan	4.10	*Less Than Significant*	*n/a*
Sensitive Receptors	4.11	*Less Than Significant*	*n/a*
Odors	4.12	*Less Than Significant*	*n/a*
Cumulative Impacts	4.13	*Less Than Significant*	*n/a*

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 may be applicable during construction activities, include but are not limited to: Rule 201[1], Rule 401[2], Rule 402[3], Rule 403[4], Rule 1113[5], Rule 1301[6], and Rule 1401[7].

Although the Project would comply with the above regulatory requirements, it should be noted that emission reductions associated with Rules 201, 401, 402, and 1301 cannot be quantified in the California Emissions Estimator Model (CalEEMod) and are therefore not reflected in the emissions presented herein. Conversely, Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3) can be modeled in CalEEMod. As such, credit for Rule 403 and Rule 1113 have been taken in the analysis.

[1] The specific requirements of Rule 201 can found at: https://www.aqmd.gov/docs/default-source/rule-book/reg-ii/rule-201.pdf

[2] The specific requirements of Rule 401 can be found at: https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-401.pdf

[3] The specific requirements of Rule 402 can be found at: https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-402.pdf

[4] The specific requirements of Rule 403 can be found at: https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf

[5] The specific requirements of Rule 1113 can be found at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf

[6] The specific requirements of Rule 1301 can be found at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xiii/rule-1301-general.pdf

[7] The specific requirements of Rule 1401 can be found at: https://www.aqmd.gov/docs/default-source/rule-book/reg-xiv/rule-1401.pdf

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1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Lincoln Way (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and to determine whether the proposed project would result in any potentially significant impacts.

1.1 SITE LOCATION

The proposed Project is located at 7441 Lincoln Way in the City of Garden Grove, as shown on Exhibit 1-A. The Project site is surrounded by industrial and commercial uses to the east and west, a residential neighborhood situated north of the site, and a vacant lot to the south.

1.2 PROJECT DESCRIPTION

The site is currently occupied by an existing 43,946 square foot two-story office building. The existing building is currently in operation as a multi-tenant office building. The proposed Project consists of redeveloping the site by demolishing the existing building, surrounding surface parking, and associated landscaping[8] and constructing a 50,300-square-foot industrial warehouse building (Type III-B construction), which includes 5,000 square feet of incidental office space. The building will feature a height of up to 46 feet, 2 rolling gates, 6 loading docks, and 52 surface parking stalls. Access to the building will be provided from Western Avenue. Currently, there are existing power poles on Western Avenue and no sidewalks on Lincoln Way or Western Avenue. Off-site improvements for the new Project are expected to be undergrounding of the power poles on Western Avenue and new sidewalks at the Project frontage on both Lincoln Way and Western Avenue.

The Project will be constructed in a single phase. Construction Is expected to begin after the existing leases expire which is in December 2025. Construction is expected to last 1 year, so a conservative Opening Year of 2027 has been assumed.

While the tenant has not been identified at this time, the industrial warehouse building has been designed to be used for storage, warehousing, and distribution of non-hazardous materials. The proposed project is projected to generate a total of 88 trips per day, including 56 passenger vehicle trips and 32 truck trips. The industrial building will operate 24 hours a day, seven days a week, with peak operational hours expected to occur Monday through Friday, from 8 a.m. to 5 p.m.

[8] The total landscaping area would be 12,010 square feet or 12% of the site area. The landscaping would be located along the setbacks and parking areas. An 8-foot-tall block wall and tubular fence would extend along the northern and western boundaries of the property.

EXHIBIT 1-A: LOCATION MAP

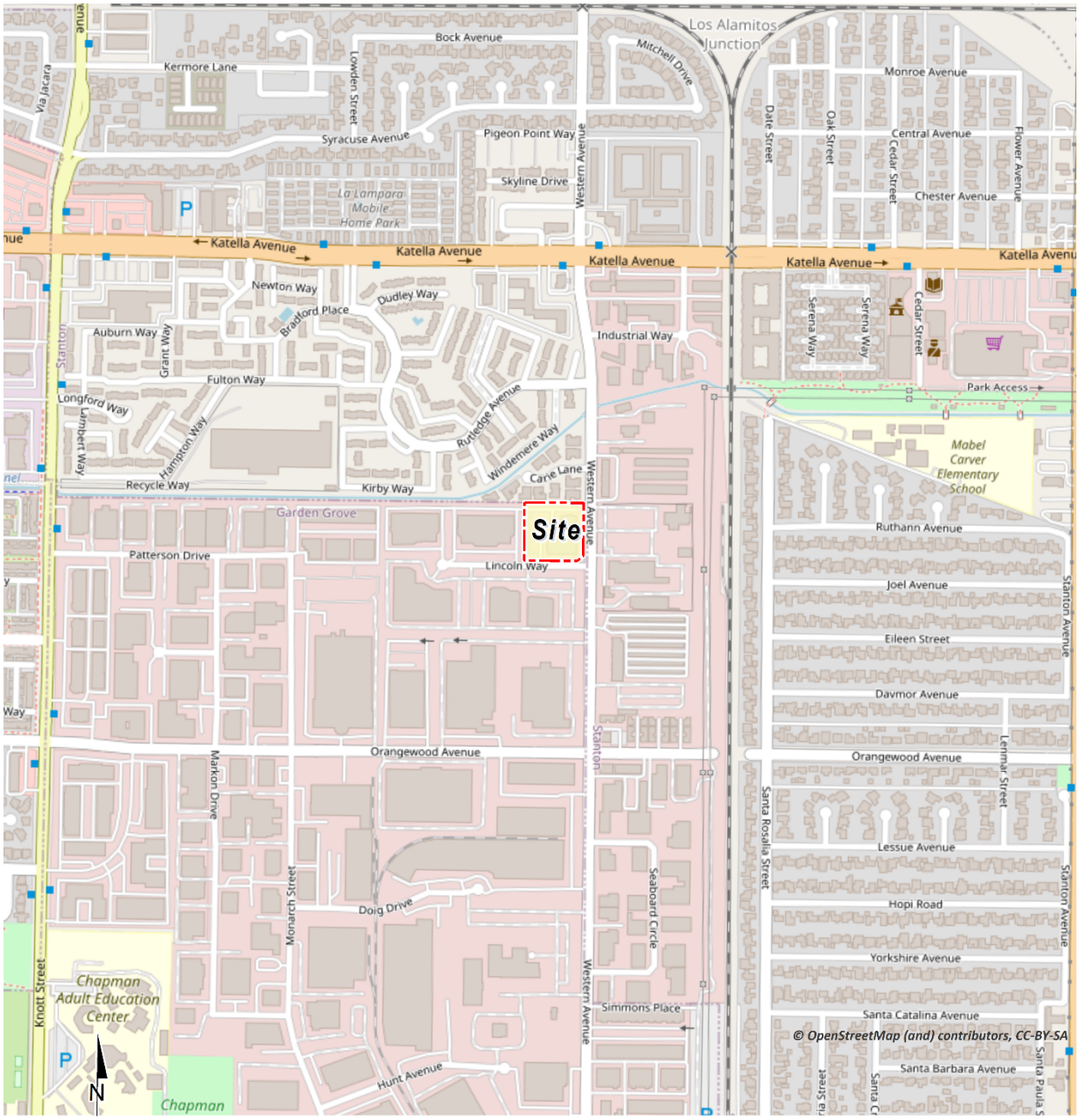
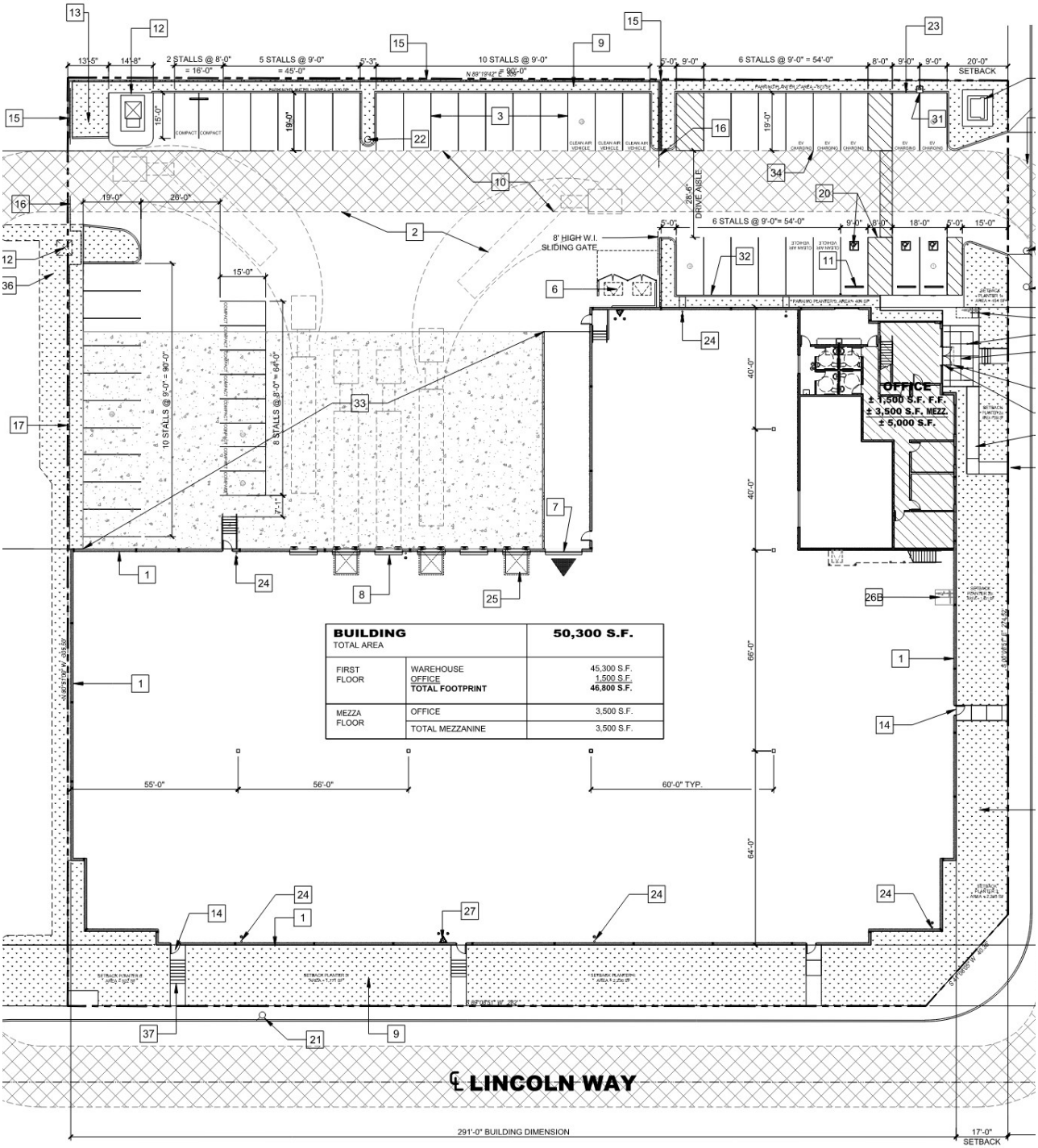


EXHIBIT 1-B: SITE PLAN



BUILDING TOTAL AREA		50,300 S.F.
FIRST FLOOR	WAREHOUSE	45,300 S.F.
	OFFICE	1,500 S.F.
	TOTAL FOOTPRINT	**46,800 S.F.**
MEZZA FLOOR	OFFICE	3,500 S.F.
	TOTAL MEZZANINE	3,500 S.F.

SITE PLAN
SCALE 1" = 20'-0"

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2 AIR QUALITY SETTING

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

2.1 SOUTH COAST AIR BASIN (SCAB)

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

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east and includes all of Orange County as well as the non-desert portions of San Bernardino, Los Angeles, and Riverside Counties.

2.2 REGIONAL CLIMATE

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

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

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates (SO_4) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71% along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

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

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

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

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO_X and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are

characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

2.4 AIR POLLUTANTS

2.4.1 CRITERIA POLLUTANTS

Air quality regulations were first promulgated with the Federal Clean Air Act (CAA) of 1970. Air quality is defined by ambient air concentrations of seven "criteria air pollutants," which are a group of common air pollutants identified by the United States Environmental Protection Agency (U.S. EPA) to be of concern with respect to the health and welfare of the general public. Federal and State governments regulate criteria air pollutants by using ambient standards based on criteria regarding the health and/or environmental effects of each pollutant. The seven "criteria" air pollutants defined by the U.S. EPA are: (1) carbon monoxide (CO); (2) sulfur dioxide (SO_2); (3) nitrogen dioxide (NO_2); (4) ozone (O_3); (5) respirable particulate matter with a diameter of 10 microns or less (PM_{10}), (6) fine particulate matter with a diameter of 2.5 microns or less ($PM_{2.5}$), and (7) lead (Pb).

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

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O_3), 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_2) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O_2 transport and competing with O_2 to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O_2 supply can be adversely affected by exposure to CO. Individuals most at risk

Criteria Pollutant	Description	Sources	Health Effects
			include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O_2 deficiency) as seen at high altitudes.
SO_2	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms SO_4. Collectively, these pollutants are referred to as sulfur oxides (SO_X).	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 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. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one

Criteria Pollutant	Description	Sources	Health Effects
			pollutant alone is the predominant factor.
NO_2	NO_2 is a key component of nitrogen oxides (NO_X), which also includes nitric oxide (NO) and nitrous oxide (N_2O). NO_X compounds are primarily produced during combustion processes when nitrogen (N_2) reacts with oxygen (O_2). Both NO and NO_2 serve as precursors in the formation of O_3 and $PM_{2.5}$, making their monitoring crucial for air quality assessments. NO_2, being the more abundant form of NO_X in the atmosphere, has a relatively short lifespan of one to seven days, which enhances its significance as a major air pollutant. As a criteria air pollutant, NO_2 poses various health risks, including respiratory issues and increased vulnerability to infections. It also absorbs blue light, imparting a brownish-red hue to the atmosphere and contributing to reduced visibility and smog formation. Given that NO emissions largely convert to NO_2, the examination of NO_X emissions becomes essential when assessing potential air quality impacts. The concentrations of NO_2 are closely related to traffic density, often resulting in higher exposure levels for commuters in heavy traffic compared to what regional monitoring stations may indicate.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO_2 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_2 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. In animals, exposure to levels of NO_2 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_3 exposure increases when animals are exposed to a combination of O_3 and NO_2.
O_3	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine	Formed when ROGs and NO_X react in the presence of	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and

Criteria Pollutant	Description	Sources	Health Effects
	exhaust, undergo slow photochemical reactions in the presence of sunlight. O_3 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.	sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O_3 effects. Short-term exposure (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O_3 levels are associated with increased school absences. In recent years, a correlation between elevated ambient O_3 levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and reside in communities with high O_3 levels. O_3 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_3 may be more toxic than exposure to O_3 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.

Criteria Pollutant	Description	Sources	Health Effects
Particulate Matter	PM_{10}: 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 air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$: A similar air pollutant to PM_{10} 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_4 formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X 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. $PM_{2.5}$ is a criteria air pollutant.	Sources of PM_{10} include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ 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_X, SO_X, organics).	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) 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 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. Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. 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_{10} and $PM_{2.5}$.
Pb	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was	Metal smelters, resource recovery, leaded gasoline,	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely

Criteria Pollutant	Description	Sources	Health Effects
	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, the Project is not anticipated to generate a quantifiable amount of Pb emissions.	deterioration of Pb paint.	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. Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.

2.4.2 ADDITIONAL POLLUTANTS

The SCAQMD's primary focus is to achieve the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) for criteria pollutants. However, it also has a broader mandate to control emissions of air contaminants and safeguard public health. As a result, SCAQMD regulates additional pollutants beyond criteria pollutants, including reactive organic gases (ROGs), VOCs, and odors. Additional pollutants, their typical sources, and health effects are identified below (5).

TABLE 2-2: ADDITIONAL POLLUTANTS

Pollutant	Description	Sources	Health Effects
VOC	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_3 to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) are used interchangeably.	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 release organic compounds while you are using them, and, to some degree, when they are stored.	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.
ROG	Similar to VOC, ROGs are also precursors in forming O_3 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_X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) are used interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.

Pollutant	Description	Sources	Health Effects
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (6).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. NAAQS and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-3 (7).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by California Air Resources Board (CARB) on May 4, 2016, as presented in Table 2-3. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ do not exceed standards. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, CARB has implemented a State Implementation Plan (SIP). The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (8).

TABLE 2-3: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards						
Pollutant	**Averaging Time**	**California Standards [1]**		**National Standards [2]**		
		Concentration [3]	**Method [4]**	**Primary [3,5]**	**Secondary [3,6]**	**Method [7]**
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page …

For more information please call ARB-PIO at (916) 322-2990 **California Air Resources Board (5/4/16)**

TABLE 2-3: 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 $\mu g/m^3$ 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°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_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 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 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3, particulate matter (PM_{10} and $PM_{2.5}$), NO_2, and SO_2 which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 35 permanent monitoring stations and 2 single-pollutant source Pb air monitoring sites throughout the air district (9). On January 25, 2024, CARB adopted the proposed 2023 amendments to the state and national area designations. See Table 2-4 for attainment designations for the SCAB (10). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-4: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment	Unclassifiable/Attainment
SO_2	Attainment	Unclassifiable/Attainment
Pb[9]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = No standard.

2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRAs]) throughout the SCAB in order to provide Southern California residents information about the air quality conditions. The Project site is located within the Central Orange County area (SRA 17). The Central Orange County monitoring station is located approximately 4.24 miles northeast of the Project site and reports air quality statistics for O_3, CO, NO_2, PM_{10}, or $PM_{2.5}$.

The most recent three (3) years of data available is shown on Table 2-5 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Development Site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2021 through 2023 was obtained from the SCAQMD Air Quality Data Tables (11). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

[9] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

TABLE 2-5: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2021-2023

Pollutant	Standard	Year		
		2021	2022	2023
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.089	0.102	0.089
Maximum Federal 8-Hour Concentration (ppm)		0.068	0.76	0.076
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	0	1	0
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	0	1	2
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	2.1	2.4	2.5
Maximum Federal 8-Hour Concentration	> 20 ppm	1.5	1.4	1.6
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.067	0.053	0.051
Annual Federal Standard Design Value		0.012	0.012	0.011
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	115	90	146
Annual Federal Arithmetic Mean ($\mu g/m^3$)		22.9	22.3	24.0
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	12	7	7
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	54.4	33.1	33.2
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	11.44	9.87	9.07
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	9	0	0

ppm = Parts Per Million
$\mu g/m^3$ = Microgram per Cubic Meter
Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ 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_3, CO, NO_X, SO_2, PM_{10}, and Pb (12). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

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

standards. These plans must include pollution control measures that demonstrate how the standards would be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (14) (15). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-4 (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_X. NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

CARB

CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO_4, visibility, hydrogen sulfide (H_2S), and vinyl chloride (C_2H_3Cl). However, at this time, H_2S and C_2H_3Cl are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (16) (12).

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

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

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g., motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;

- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_X, CO and PM_{10}. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

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

NONRESIDENTIAL MANDATORY MEASURES[10]

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty electric vehicle supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).

[10] The emissions presented in Section 4 of this report represent a conservative estimate, as the project's modeling does not account for any credit from these measures.

- 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:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).

- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 AQMP

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

2.9 REGIONAL AIR QUALITY IMPROVEMENT

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

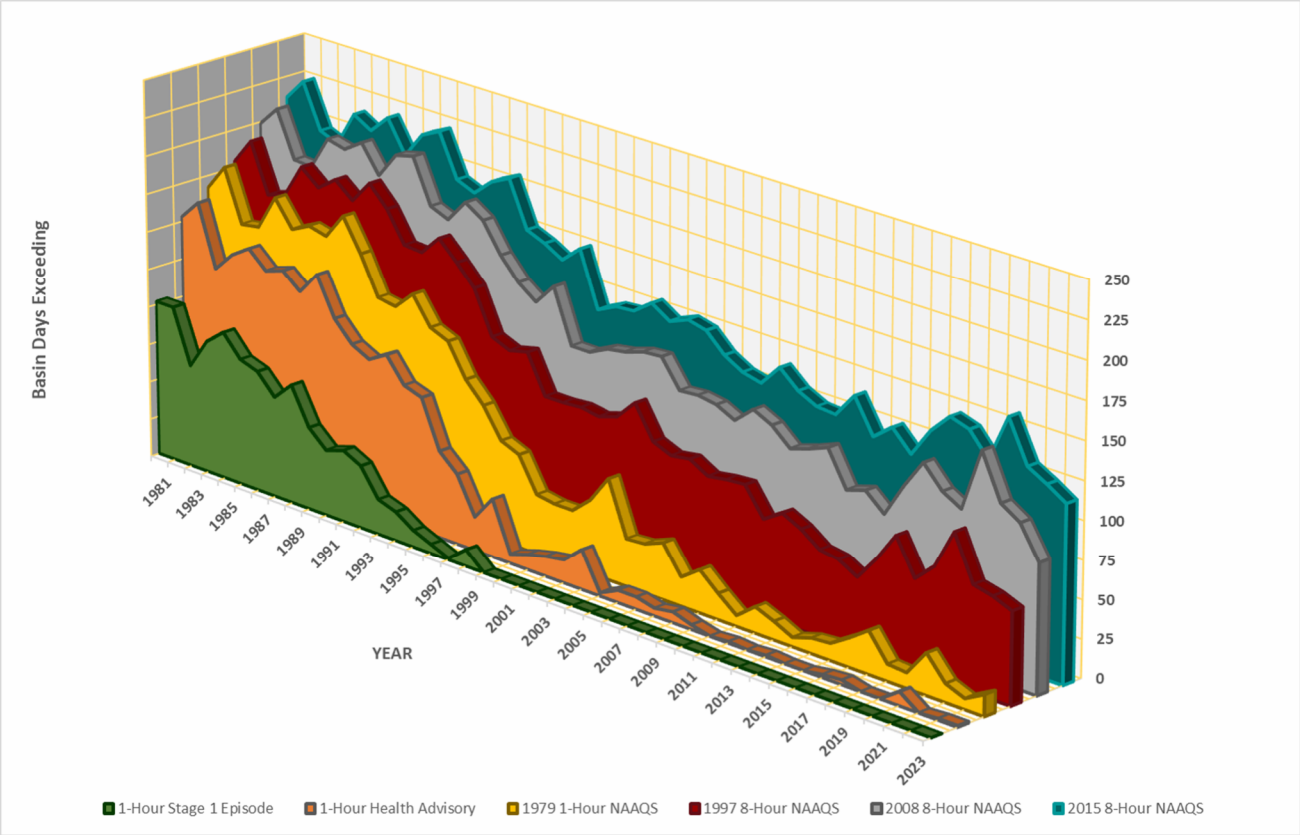
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB, such as is occurring here. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

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

Emissions of O_3, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2023 (21). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO_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 2023. For 2023, there was an overall decrease in exceedance days compared with the 1980 period. As shown in Table 2-6, 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 (22).

TABLE 2-6: SCAB O_3 TREND



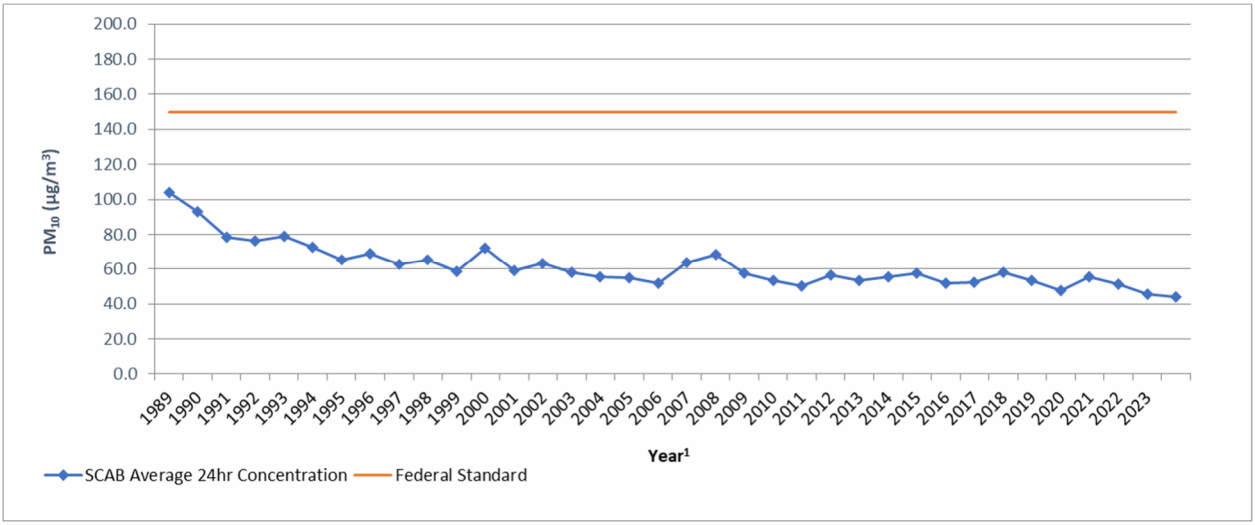
Source: 2024 SCAQMD, Historical O_3 Air Quality Trends (1976-2023)

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SCAB and direct emissions of $PM_{2.5}$ 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_{10} statistics show an overall improvement as illustrated in Tables 2-7 and 2-8. During the period for which data are available (1988-2023), the 24-hour national annual average concentration for PM_{10} decreased by approximately 57%, from 103.7 microgram per cubic meter (µg/m³) in 1988 to 44.1 µg/m³ in 2023 (23). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations would exceed the threshold. The 24-hour state annual average for emissions for PM_{10}, have decreased by approximately 66%, from 93.9 µg/m³ in 1989 to 32.1 µg/m³ in 2023 (23). Although data in the late 1990s show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient

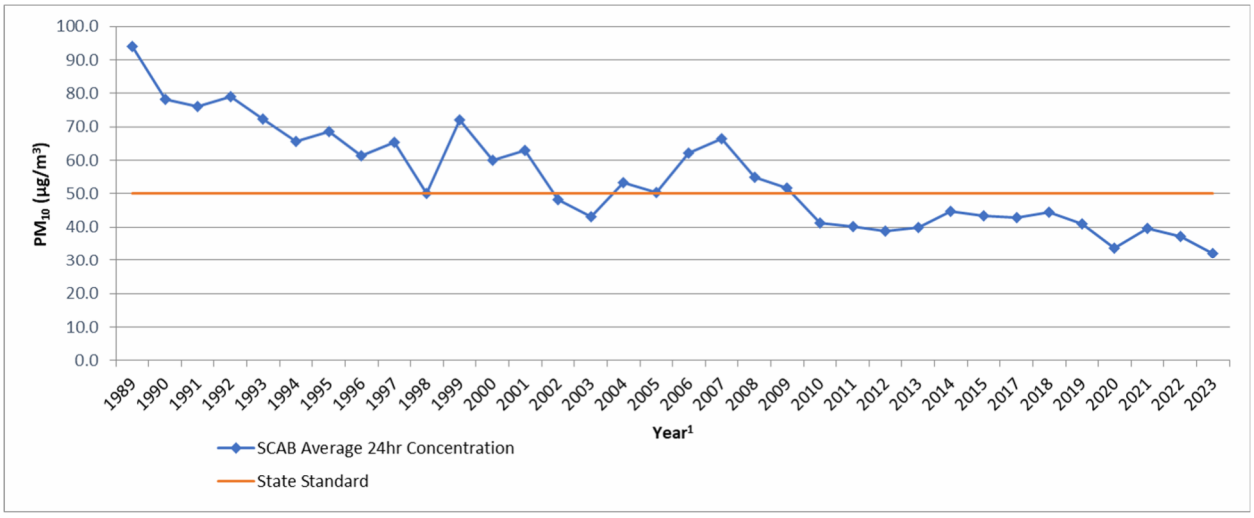
concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop.

TABLE 2-7: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2024 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2023)
[1] 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.

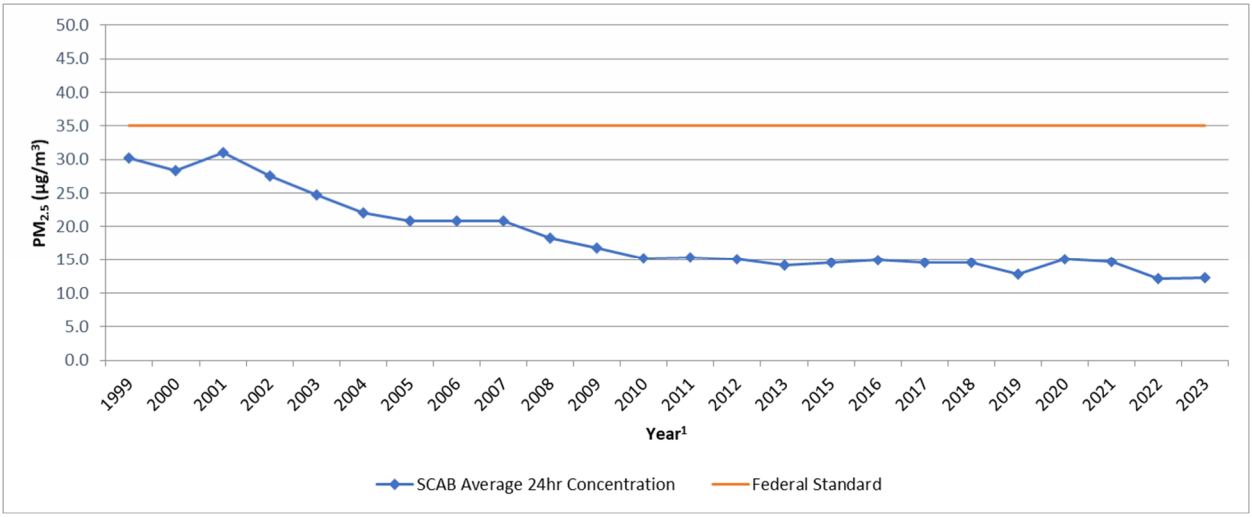
TABLE 2-8: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]



Source: 2024 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1989-2023)
[1] 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.

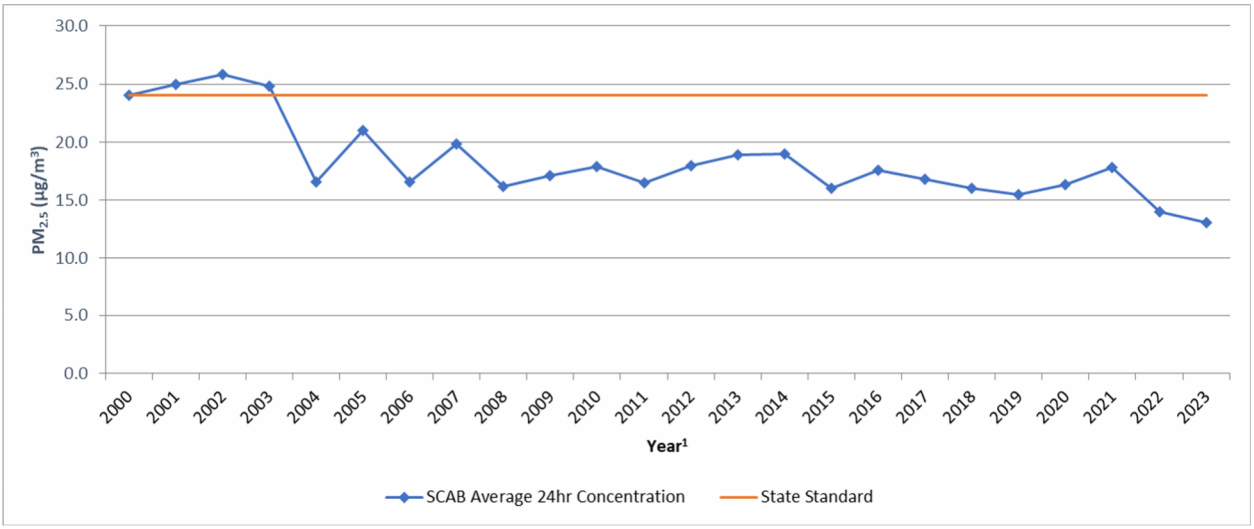
Tables 2-9 and 2-10 show the most recent 24-hour average and annual $PM_{2.5}$ concentrations in the SCAB. Overall, the national and state annual average concentrations have decreased by almost 59% and 45% respectively (23). It should be noted that the SCAB is currently designated as nonattainment for the state and federal $PM_{2.5}$ standards.

TABLE 2-9: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2024 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2023)
[1] 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 2-10: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



Source: 2024 CARB, iADAM: Top Four Summary: PM2.5 24-Hour Averages (1999-2023)
[1] 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_{10} 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 $PM_{2.5}$.

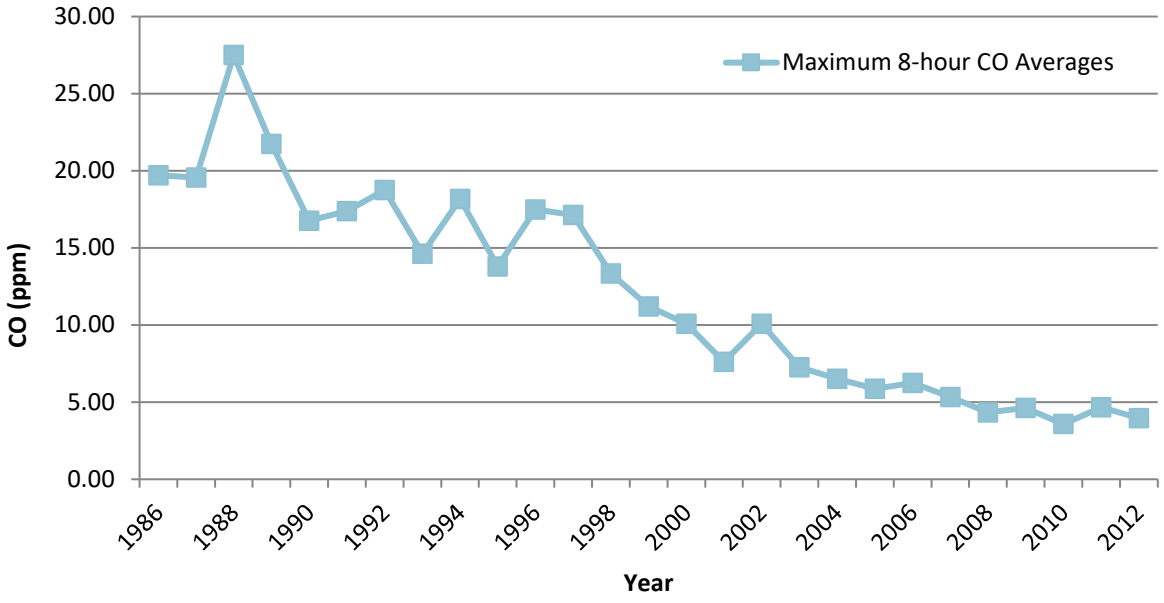
The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour $PM_{2.5}$ 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 $PM_{2.5}$ NAAQS in the Los Angeles-SCAB Serious $PM_{2.5}$ nonattainment area. The EPA also approved 2017 and 2019 motor vehicle emissions budgets for transportation conformity purposes and inter-pollutant trading ratios for use in transportation conformity analyses (24).

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

The most recent CO concentrations in the SCAB are shown in Table 2-11 (23). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration from 1986 to 2012. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

TABLE 2-11: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND[1]

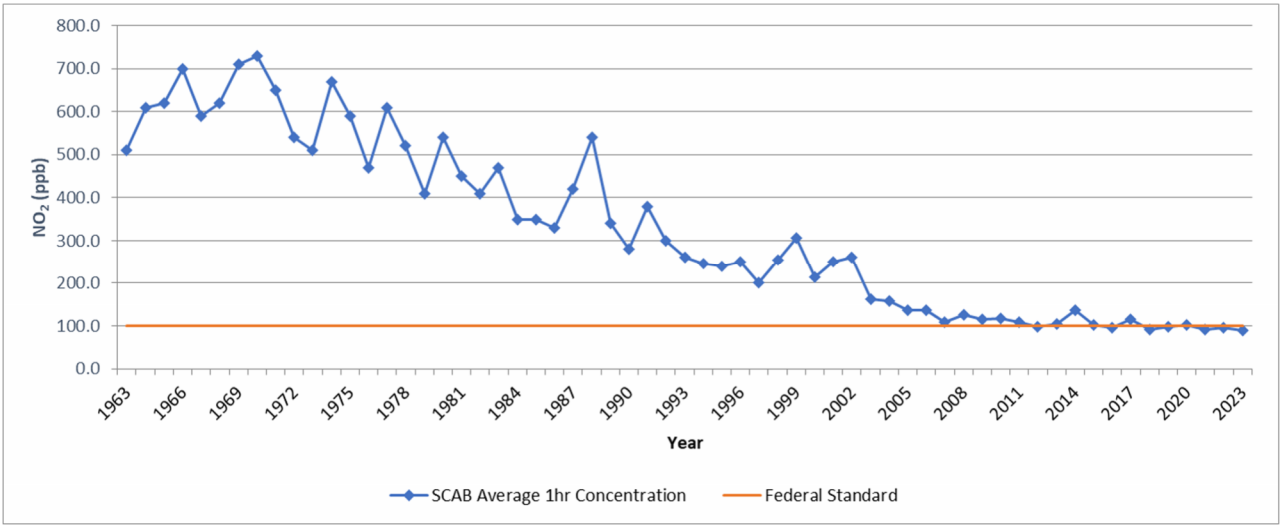


Source: 2024 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)
[1] The most recent year where 8-hour concentration data is available is 2012.

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

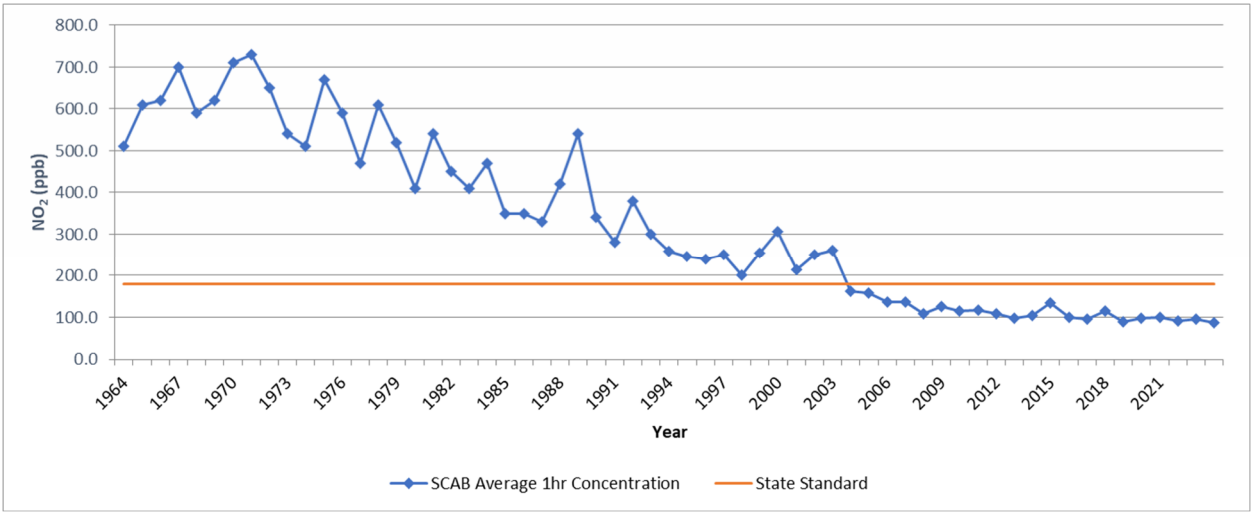
The most recent NO_2 data for the SCAB is shown in Tables 2-12 and 2-13 (23). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2023 is approximately 83% lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 ppm was adopted by CARB in February 2007 (28). The new standard is just barely exceeded in the SCAB. NO_2 is formed from NO_X emissions, which also contribute to O_3. As a result, the majority of the future emission control measures would be implemented as part of the overall O_3 control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO_X emissions. These measures are expected to bring the SCAB into attainment of the state annual average standard.

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD)



Source: 2024 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2023)

TABLE 2-13: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON STATE STANDARD)



Source: 2024 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2023)

2.9.1 TOXIC AIR CONTAMINANTS (TAC) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (29) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C_6H_6), and 1,3-butadiene (C_4H_6); those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4O)[11]. 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

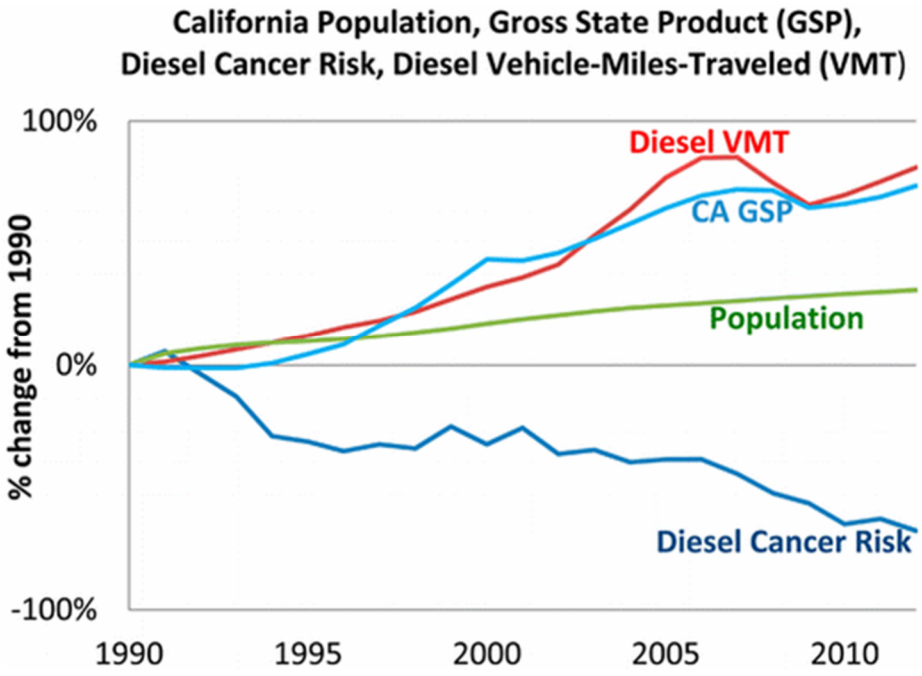
CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II 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

[11] 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.

detected malfunction so that a repair technician can accurately find and fix the problem. CARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 pounds (lbs). CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (29).

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

EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND



Source: 2020 CARB

DIESEL REGULATIONS

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

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

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

CANCER RISK TRENDS

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

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements were conducted at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V also included measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (33). The final report for the MATES V study was published in in 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 (34).

MATES-V calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-V has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. The Project is located within a quadrant of the geographic grid of the MATES-V model which predicted a cancer risk of 409 in one million for the area containing the Project site. The air toxic cancer risk in the Project area is higher than 15% of the SCAQMD population. DPM is included in this cancer risk along with all other TAC sources. As in previous MATES iterations, diesel PM is the largest contributor to overall air toxics cancer risk. However, the average levels of diesel PM in MATES V are 53% lower at the 10 monitoring sites compared to MATES IV. Cumulative Project generated TACs are limited to DPM.

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3 EXISTING PROJECT SITE AIR QUALITY CONDITIONS

As previously stated, the Project site is currently occupied by an existing 43,946 square foot two-story office building. The estimated operation-source emissions from the existing development are summarized on Table 3-1. Detailed operation model outputs are presented in Appendix 3.1.

TABLE 3-1: EMISSIONS FROM EXISTING DEVELOPMENT

Source	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer						
Mobile Source	0.15	0.11	1.27	0.00	0.33	0.09
Area Source	1.37	0.02	1.91	0.00	0.00	0.00
Energy Source	0.02	0.30	0.25	0.00	0.02	0.02
Total Maximum Daily Emissions	**1.54**	**0.43**	**3.43**	**0.00**	**0.35**	**0.11**
Winter						
Mobile Source	0.15	0.12	1.18	0.00	0.33	0.09
Area Source	1.06	0.00	0.00	0.00	0.00	0.00
Energy Source	0.02	0.30	0.25	0.00	0.02	0.02
Total Maximum Daily Emissions	**1.23**	**0.42**	**1.43**	**0.00**	**0.35**	**0.11**

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

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4 PROJECT AIR QUALITY IMPACT

4.1 INTRODUCTION

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

4.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *State CEQA Guidelines* appendix G (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 developed regional significance thresholds for criteria pollutants, as summarized at Table 4-1 (35). 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 individually and cumulatively significant air quality impacts.

TABLE 4-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Regional Construction Threshold	Regional Operational Thresholds
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	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

4.3 MODELS EMPLOYED TO ANALYZE AIR QUALITY

4.3.1 CALEEMOD

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

The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released CalEEMod 2022 in May 2022. CalEEMod periodically releases updates, as such the latest version available at the time of this report has been utilized in this analysis. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs (20). Output from the model runs for both construction and operational activity are provided in Appendix 4.1.

4.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

PROJECT

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

OFF-SITE IMPROVEMENTS

- Linear, Grubbing & Land Clearing
- Linear, Grading & Excavation
- Linear, Drainage, Utilities, & Sub-Grade
- Linear, Paving

DEMOLITION ACTIVITIES

As previously stated, the site is currently occupied. This analysis assumes that demolition of 43,946 square feet of existing structures and 50,031 square feet of asphalt/concrete will produce a total of 2,970 tons of debris[12] which will be hauled off-site.

[12] Demolition quantities for the project were calculated consistent with CalEEMod's calculation procedures, with tonnage determined by converting building square footage and asphalt/concrete area based on the tonnage-to-floor space ratio from a 1976 analysis by Murphy and Chatterjee.

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. Per client-provided data, the Project would require 2,100 cubic yards of export for earthwork activities[13].

OFF-SITE UTILITY AND INFRASTRUCTURE IMPROVEMENTS

In addition, to support the Project development, off-site utility and infrastructure improvements are anticipated. Off-site improvements will include constructing a new sidewalk on Lincoln Way where none currently exists, widening the existing driveway, relocating four electric/telecom poles underground, and repaving at least half of Lincoln Way. It is expected that the off-site construction activities would not take place at one location for the entire duration of construction, and that these activities will occur concurrently with the overall project timeline. It is anticipated that off-site utility and infrastructure improvements would occur concurrent with other utility installation activities. Impacts associated with these expected activities are not expected to exceed the emissions identified for Project-related construction activities. As such, no impacts beyond what has already been identified in this report are expected to occur.

ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers and vendors commuting to and from the site, as well as haul trucks for the export of soil during grading activities. The number of worker, vendor, and hauling trips are presented below in Table 4-2. It should be noted that for Vendor Trips, specifically, CalEEMod only assigns Vendor Trips to the Building Construction phase. Vendor trips would likely occur during all phases of construction. As such, the CalEEMod defaults for Vendor Trips have been adjusted based on a ratio of the total vendor trips to the number of days of each subphase of activity.

[13] Under demolition activities, it is assumed that all demolished materials will be exported/hauled off-site. Similarly, grading activities are modeled separately to account for the export of earthwork. Each activity assumes its own hauling trips: demolition generates trips for hauling away debris, while grading generates separate trips for transporting earth materials.

TABLE 4-2: CONSTRUCTION TRIP ASSUMPTIONS

Construction Activity		Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Project Construction	Demolition	10	1	37
	Site Preparation	10	1	0
	Grading	10	2	4
	Building Construction	21	6	0
	Paving	13	1	0
	Architectural Coating	4	0	0
Off-Site Improvements	Linear, Grubbing & Land Clearing	10	0	0
	Linear, Grading & Excavation	10	2	0
	Linear, Drainage, Utilities, & Sub-Grade	10	0	0
	Linear, Paving	10	0	0

3.4.1 CONSTRUCTION DURATION

For purposes of analysis, construction of the Project is expected to last approximately 12 months, commencing in December 2025 and being completed in December 2026. The construction schedule utilized in the analysis, shown in Table 4-3, represents a "worst-case" 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[14]. The duration of construction activity and associated equipment was based on information provided by the Project Applicant and represents a reasonable approximation of the expected construction fleet as required per the *State CEQA Guidelines* (1).

TABLE 4-3: CONSTRUCTION DURATION (1 OF 2)

Construction Activity		Start Date	End Date	Working
Project Construction	Demolition	12/01/2025	12/28/2025	20
	Site Preparation	12/29/2025	12/31/2025	3
	Grading	01/01/2026	03/25/2026	60
	Building Construction	03/26/2026	12/08/2026	184
	Paving	12/09/2026	12/29/2026	15
	Architectural Coating	12/09/2026	12/29/2026	15

[14] 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.

TABLE 4-3: CONSTRUCTION DURATION (2 OF 2)

Construction Activity		Start Date	End Date	Working
Off-Site Improvements	Linear, Grubbing & Land Clearing	03/26/2026	03/31/2026	4
	Linear, Grading & Excavation	04/01/2026	04/26/2026	18
	Linear, Drainage, Utilities, & Sub-Grade	04/27/2026	05/13/2026	12
	Linear, Paving	05/14/2026	05/22/2026	6

3.4.2 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-4 will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code City's Municipal Code, Section 8.47.060 (Appendix 3.1) (36). It is not reasonably foreseeable that this equipment would operate for longer than industry standards and typical construction practices.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Construction Activity		Equipment	Amount	Hours Per Day
Project Construction	Demolition	Rubber Tired Dozers	1	8
		Skip Loader	1	8
		Excavator	1	8
		Small Scraper	1	8
	Site Preparation	Rubber Tired Dozers	1	8
		Skip Loader	1	8
		Excavator	1	8
		Small Scraper	1	8
	Grading	Rubber Tired Dozers	1	8
		Skip Loader	1	8
		Excavator	1	8
		Small Scraper	1	8
	Building Construction	Cranes	1	8
		Forklifts	1	8
		Tractors/Loaders/Backhoes	1	8
	Paving	Tractors/Loaders/Backhoes	1	8
		Pavers	1	8
		Paving Equipment	1	8
		Rollers	1	8

	Architectural Coating	Air Compressors	1	8

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

Construction Activity		Equipment	Amount	Hours Per Day
Off-Site Improvements	Linear, Grubbing & Land Clearing	Rubber Tired Dozers	1	8
		Skip Loader	1	8
		Excavator	1	8
		Small Scraper	1	8
	Linear, Grading & Excavation	Rubber Tired Dozers	1	8
		Skip Loader	1	8
		Excavator	1	8
		Small Scraper	1	8
	Linear, Drainage, Utilities, & Sub-Grade	Rubber Tired Dozers	1	8
		Skip Loader	1	8
		Excavator	1	8
		Small Scraper	1	8
	Linear, Paving	Rubber Tired Dozers	1	8
		Skip Loader	1	8
		Excavator	1	8
		Small Scraper	1	8

4.4.3 CONSTRUCTION EMISSIONS SUMMARY

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions are summarized on Table 4-5 and are reflective of a building of the proposed scale. Detailed construction model outputs are presented in Appendix 4.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

TABLE 4-5: EMISSIONS SUMMARY OF CONSTRUCTION ACTIVITIES (POUNDS PER DAY)

Year	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer						
2026	2.46	21.91	23.33	0.04	3.33	1.83
Winter						
2025	1.99	21.12	18.00	0.05	3.58	1.61
2026	16.98	21.93	23.07	0.04	3.31	1.82
Maximum Daily Emissions	**16.98**	**21.93**	**23.33**	**0.05**	**3.58**	**1.83**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod construction-source (unmitigated) emissions are presented in Appendix 4.1.

4.5 OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions are expected from the following primary sources:

- Mobile Source Emissions
- Area Source Emissions
- Energy Source Emissions
- Stationary Source Emissions
- On-Site Cargo Handling Equipment Emissions

4.5.1 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site, truck trips associated with the proposed uses. Trip characteristics available from the *Lincoln Way Trip Generation Assessment* were utilized in this analysis (37). Per the *Lincoln Way Trip Generation Assessment*, the proposed Project is expected to generate approximately 88 total trips per day which includes 56 passenger vehicle trips per day and 32 actual truck trips per day.

APPROACH FOR ANALYSIS OF THE PROJECT

To determine emissions from passenger car vehicles, the CalEEMod defaults were utilized for trip length and trip purpose for the proposed land uses. It is important to note that although the *Lincoln Way Trip Generation Assessment* does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks

(LDT1[15] & LDT2[16]), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix in Table 4-6 was utilized.

TABLE 4-6: PASSENGER CAR FLEET MIX

Land Use	% Vehicle Type				
	LDA	LDT1	LDT2	MDV	MCY
Warehouse	52.73%	4.26%	25.16%	15.48%	2.37%

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

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated the SCAQMD recommended truck trip length of 14.2 miles for 2-axle and 3-axle (LHDT1, LHDT2, and MHDT) trucks and 40 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from the *Lincoln Way Trip Generation Assessment*. The trip length function for the proposed industrial building use has been revised to 30.47 miles, with an assumption of 100% primary trips for the proposed land use. In order to be consistent with the *Lincoln Way Trip Generation Assessment*, trucks are broken down by truck type. The truck fleet mix is estimated by rationing the trip rates for each truck type based on information provided in the *Lincoln Way Trip Generation Assessment*. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[17] & LHDT2 [18])/2-axle, Medium-Heavy-Duty Trucks (MHD)/3-axle, and Heavy-Heavy-Duty Trucks (HHD)/4+-axle. To account for emissions generated by trucks, the following fleet mix was utilized in this analysis:

TABLE 4-7: TRUCK FLEET MIX

Land Use	% Vehicle Type			
	LHDT1	LHDT2	MHDT	HHDT
Warehouse	14.85%	3.90%	18.75%	62.50%

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 were calculated using CalEEMod.

[15] 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.

[16] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

[17] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

[18] Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

4.5.2 AREA SOURCE EMISSIONS

ARCHITECTURAL COATINGS

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

CONSUMER PRODUCTS

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

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/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 (hp) (known as small off-road engines [SOREs]) by January 1, 2024, which is now effective. For purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

4.5.3 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 generally excluded from the evaluation of significance and only natural gas use is considered. Based on information provided by the Project applicant, the site is also not expected to utilize natural gas for the building envelope, and therefore would not generate any emissions from direct energy consumption.

4.5.4 EMERGENCY FIRE PUMPS

It is conservatively assumed that the proposed Project would include installation of two diesel-fueled emergency fire pumps rated at 300 hp each. The analysis assumed that each pump could potentially operate for up to half an hour per day, one day per week, for a total of 50 hours per year for maintenance and testing purposes. Emissions resulting from the two emergency fire pumps were modeled using CalEEMod.

4.5.5 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this particular Project, on-site modeled operational equipment includes up to one (1) natural gas-powered cargo handling equipment – port tractors operating at 4 hours a day[19] for 365 days of the year. This is based on the scale of the proposed project.

4.5.6 OPERATIONAL EMISSIONS SUMMARY

As previously stated, CalEEMod utilizes summer and winter EMFAC2021 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. The estimated operational-source emissions are summarized on Table 4-8 and are based on the scale of the proposed project. Detailed operation model outputs for the Project are presented in Appendix 4.1. As shown on Table 4-8, the Project's daily regional emissions from on-going operations would not exceed the thresholds of significance for emissions of any criteria pollutant.

TABLE 4-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS (1 OF 2)

Source	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Summer						
Mobile Source	0.22	2.71	2.79	0.03	1.28	0.36
Area Source	1.57	0.02	2.19	0.00	0.00	0.00
Emergency Fire Pumps	0.49	1.38	1.26	0.00	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0.00	0.03	0.03
Total Maximum Daily Emissions	**2.40**	**4.49**	**22.68**	**0.03**	**1.38**	**0.46**
Existing	*1.54*	*0.43*	*3.43*	*0.00*	*0.35*	*0.11*
Net Emissions	**0.86**	**4.06**	**19.25**	**0.03**	**1.03**	**0.35**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

[19] 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.

TABLE 4-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS (2 OF 2)

Source	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Winter						
Mobile Source	0.22	2.82	2.68	0.03	1.28	0.36
Area Source	1.21	0.00	0.00	0.00	0.00	0.00
Emergency Fire Pumps	0.49	1.38	1.26	0.00	0.07	0.07
Cargo Handling Equipment	0.12	0.38	16.44	0.00	0.03	0.03
Total Maximum Daily Emissions	**2.04**	**4.58**	**20.38**	**0.03**	**1.38**	**0.46**
Existing	*1.23*	*0.42*	*1.43*	*0.00*	*0.35*	*0.11*
Net Emissions	**0.81**	**4.16**	**18.95**	**0.03**	**1.03**	**0.35**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operation-source emissions are presented in Appendix 4.1.

4.6 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[20]. 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* (38).

[20] 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."

EMISSIONS CONSIDERED

Based on SCAQMD's *LST Methodology*, emissions for concern during construction activities are on-site NO_X, CO, $PM_{2.5}$, and PM_{10}. The *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (39)." As such, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

MAXIMUM DAILY DISTURBED-ACREAGE

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 4-9). The equipment-specific grading rates are summarized in the SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* (40) (41). The disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day. Based on Table 4-9, the Project's construction activities could actively disturb approximately 1.5 acres per day during demolition, site preparation, grading, grading & land clearing, grading & excavation, and drainage, utilities, and sub-grading activities.

TABLE 4-9: MAXIMUM DAILY DISTURBED-ACREAGE (1 OF 2)

Construction Activity		Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Project Construction	Demolition	Rubber Tired Dozers	1	0.5	8	0.5
		Scrapers	1	1.0	8	1.0
	Total acres disturbed per day during Demolition					1.5
	Site Preparation	Rubber Tired Dozers	1	0.5	8	0.5
		Scrapers	1	1.0	8	1.0
	Total acres disturbed per day during Site Preparation					1.5
	Grading	Rubber Tired Dozers	1	0.5	8	0.5
		Scrapers	1	1.0	8	1.0
	Total acres disturbed per day during Grading					1.5
Off-Site Improvements	Linear, Grubbing & Land Clearing	Rubber Tired Dozers	1	0.5	8	0.5
		Scrapers	1	1.0	8	1.0
	Total acres disturbed per day during Linear, Grubbing & Land Clearing					1.5
	Linear, Grading & Excavation	Rubber Tired Dozers	1	0.5	8	0.5
		Scrapers	1	1.0	8	1.0
	Total acres disturbed per day during Linear, Grading & Excavation					1.5

TABLE 4-9: MAXIMUM DAILY DISTURBED-ACREAGE (1 OF 2)

Construction Activity		Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Off-Site Improvements	Linear, Drainage, Utilities, & Sub-Grade	Rubber Tired Dozers	1	0.5	8	0.5
		Scrapers	1	1.0	8	1.0
	Total acres disturbed per day during Linear, Drainage, Utilities, & Sub-Grade					1.5

Source: Maximum daily disturbed acreage based on equipment list presented in Appendix 4.1.

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_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ 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 onsite for a full 24 hours but are typically onsite for 8 hours or less. However, *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 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* (39)." 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_{10} and $PM_{2.5}$ analysis, must be considered to determine construction and operational LST air impacts for emissions of NO_2 and CO since these pollutants have an averaging time of 1 and 8-hours.

STUDY AREA RECEPTORS

Receptors in the Project study area are described below and shown on Exhibit 4-A. 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 sensitive residence at 7430 Carie Lane, approximately 25 feet north of the Project site.

R2: Location R2 represents the existing sensitive residence at 7414 Carie Lane, approximately 14 feet north of the Project site.

R3: Location R3 represents the existing sensitive residence at 11242 Dover Way approximately 269 feet northwest of the Project site.

R4: Location R4 represents the existing sensitive residence at 7421 Carie Lane, approximately 216 feet north of the Project site.

R5: Location R5 represents the Video Voice Data Comm facility located at 7391 Lincoln Way, approximately 46 feet west of the Project site.

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual a cumulatively significant 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_{10} and $PM_{2.5}$ (since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time). The nearest receptor used for evaluation of localized impacts of PM_{10} and $PM_{2.5}$ is represented by location R2 which represents the existing residence at 7414 Carie Lane, approximately 14 feet north of the Project.

As previously stated, and consistent with *LST Methodology*, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_X and CO as the averaging periods for these pollutants are shorter (8 hours or less) and it is reasonable to assume that an individual could be present at these sites for periods of one to 8 hours. It should be noted that there are no industrial/commercial uses located at a closer distance than the existing residence at 7414 Carie Lane. As such, the same location used for analysis of localized PM_{10} and $PM_{2.5}$ will be used to evaluate localized NO_X and CO impacts.

It should be noted that the *LST Methodology* explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters* (42)." As such, a 25-meter distance will be used for evaluation of localized emissions of PM_{10}, $PM_{2.5}$, NO_X, and CO.

EXHIBIT 4-A: SENSITIVE RECEPTOR LOCATIONS

4.7 CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

4.7.1 LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Since the total acreage disturbed is less than five acres per day for demolition, site preparation, grading, grading & land clearing, grading & excavation, and drainage, utilities, and sub-grading activities, the SCAQMD's screening look-up tables were utilized to determine impacts for phases. It should be noted that since the look-up tables identify thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized to determine localized significance thresholds. As noted previously in Table 4-9, the Project's construction activities could actively disturb approximately 1.5 acres per day during demolition, site preparation, grading, grading & land clearing, grading & excavation, and drainage, utilities, and sub-grading activities.

Consistent with SCAQMD guidance, the thresholds presented in Table 4-10 were calculated by interpolating the threshold values for the Project's disturbed acreage.

TABLE 4-10: MAXIMUM DAILY LOCALIZED CONSTRUCTION EMISSIONS THRESHOLDS

Construction Activity		Construction Localized Thresholds			
		NO_X	CO	PM_{10}	$PM_{2.5}$
Project Construction	Demolition	98 lbs/day	600 lbs/day	5 lbs/day	4 lbs/day
	Site Preparation	98 lbs/day	600 lbs/day	5 lbs/day	4 lbs/day
	Grading	98 lbs/day	600 lbs/day	5 lbs/day	4 lbs/day
Off-Site Improvements	Linear, Grubbing & Land Clearing	98 lbs/day	600 lbs/day	5 lbs/day	4 lbs/day
	Linear, Grading & Excavation	98 lbs/day	600 lbs/day	5 lbs/day	4 lbs/day
	Linear, Drainage, Utilities, & Sub-Grade	98 lbs/day	600 lbs/day	5 lbs/day	4 lbs/day

Source: Localized Thresholds presented in this table are based on the SCAQMD Final LST Methodology, July 2008

4.7.2 CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

Table 4-11 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. For analytical purposes, emissions associated with peak demolition, site preparation, grading, grading & land clearing, grading & excavation, and drainage, utilities, and sub-grading activities are considered for purposes of LSTs since these phases represent the maximum localized emissions that would occur. Any other construction phases of development that overlap would result in lesser emissions and consequently lesser impacts than what is disclosed herein. Localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any criteria pollutant. Outputs from the model runs for construction LSTs are provided in Appendix 4.1.

TABLE 4-11: LOCALIZED CONSTRUCTION-SOURCE EMISSIONS

Construction Activity		Year	Emissions (lbs/day)			
			NO_X	CO	PM_{10}	$PM_{2.5}$
Project Construction	Demolition	**Maximum Daily Emissions**	**17.80**	**16.10**	**2.74**	**0.97**
		SCAQMD Localized Threshold	98	600	5	4
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
	Site Preparation	**Maximum Daily Emissions**	**17.80**	**16.10**	**2.71**	**1.58**
		SCAQMD Localized Threshold	98	600	5	4
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
	Grading	**Maximum Daily Emissions**	**16.40**	**15.50**	**2.65**	**1.53**
		SCAQMD Localized Threshold	98	600	5	4
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
Off-Site Improvements	Linear, Grubbing & Land Clearing	**Maximum Daily Emissions**	**16.40**	**15.50**	**2.65**	**1.53**
		SCAQMD Localized Threshold	98	600	5	4
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
	Linear, Grading & Excavation	**Maximum Daily Emissions**	**16.40**	**15.50**	**2.65**	**1.53**
		SCAQMD Localized Threshold	98	600	5	4
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
	Linear, Drainage, Utilities, & Sub-Grade	**Maximum Daily Emissions**	**16.40**	**15.50**	**2.65**	**1.53**
		SCAQMD Localized Threshold	98	600	5	4
		Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod unmitigated localized construction-source emissions are presented in Appendix 4.1.

4.8 OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

The LST analysis generally includes on-site sources (area, energy, mobile, on-site cargo handling equipment, and stationary equipment – are previously discussed in Section 4.5 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, in an effort to establish a maximum potential impact scenario for analytic purposes, the emissions shown on Table 4-13 represent all on-site Project-related stationary (area) sources and Project-related mobile sources. It should be noted that the longest on-site distance is roughly 0.1 mile for both trucks and passenger cars. Modeling based on these assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs.

4.8.1 LOCALIZED THRESHOLDS FOR OPERATIONAL ACTIVITY

Localized Project operational emissions would occur on-site, since the Project is located on an approximately 2.15-acre parcel. The SCAQMD's screening look-up tables are utilized in

determining impacts. Consistent with SCAQMD guidance, the thresholds presented in Table 4-12 were calculated by interpolating the threshold values for the Project's acreage.

TABLE 4-12: MAXIMUM DAILY LOCALIZED OPERATIONAL EMISSIONS THRESHOLDS

Operational Localized Thresholds			
NO_X	**CO**	**PM_{10}**	**$PM_{2.5}$**
118 lbs/day	743 lbs/day	2 lbs/day	1 lbs/day

Source: Localized Thresholds presented in this table are based on the SCAQMD Final LST Methodology, July 2008

4.8.2 OPERATIONAL-SOURCE LOCALIZED EMISSIONS

As shown on Table 4-13 operational emissions would not exceed the LST thresholds for the nearest sensitive receptor. Therefore, the Project would have a less than significant localized impact during operational activity. Outputs from the model runs for operation LSTs are provided in Appendix 4.2.

TABLE 4-13: LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS

Scenario	Emissions (lbs/day)			
	NO_X	**CO**	**PM_{10}**	**$PM_{2.5}$**
Maximum Daily Emissions	**2.11**	**20.44**	**0.11**	**0.10**
SCAQMD Localized Threshold	118	743	2	1
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod unmitigated localized construction-source emissions are presented in Appendix 4.2.

4.9 CO "HOT SPOT" ANALYSIS

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

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

As summarized in the 2003 AQMP, even at one of the busiest intersections at that time, only 0.7 ppm of CO is attributable to vehicular traffic and the remaining 7.7 ppm were due to ambient

background conditions. As shown on Table 2-5 in this report, the background 1-hour and 8-hour concentrations are well below the applicable AAQS. As such, Project-related traffic at any intersections within the air basin would not cause or contribute to a CO hotspot since the background concentrations are low and any contribution from project traffic would be negligible. The project would not significantly contribute to the formation of a CO hotspot.

4.10 AQMP

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

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

In December 2022, the SCAQMD released the *Final 2022 AQMP* (*2022 AQMP*). The *2022 AQMP* continues to implement 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 (43). 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 (44). The Project's consistency with the AQMP will be determined using the *2022 AQMP* as discussed below.

SCAG adopted the 2020-*2045 Regional Transportation Plan/Sustainable Communities Strategy* (2020-2045 RTP/SCS), a planning document that supports the integration of land use and transportation to help the region meet the federal metropolitan planning organization (MPO) requirements under the Sustainable communities and Climate Protection Act. The proposed Project would be developed in accordance with all applicable rules and regulations contained in those plans. It should be noted that although the 2024-2050 RTP was released after approval of the 2022 AQMP, the 2022 AQMP relies on the City's General Plan land use designations. The City of Garden Grove General Plan Land Use designation for the Project site is Industrial. This is consistent with the land use designation assumed by both the 2020-2045 RTP and the 2024-2050 RTP. The Project does not propose or require amendment of the site's current General Plan Land Use designation.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (45). These indicators are discussed below:

4.10.1 CONSISTENCY CRITERION NO. 1

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

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

Construction Impacts – Consistency Criterion 1

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

4.10.2 CONSISTENCY CRITERION NO. 2

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

The 2022 *AQMP* demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Garden Grove 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 City of Garden Grove General Plan Land Use designation for the Project site is Industrial. The industrial designation is intended to encourage general industrial uses, such as warehousing and distribution or business parks, and more intensive industrial uses, such manufacturing, fabrication, assembly, processing, trucking, warehousing and distribution, and servicing (46). The Project is currently proposed to consist of a 50,300 square foot warehouse which includes 5,000 square feet of incidental office space which is consistent with the proposed uses allowed under the land use designation and therefore, the Project does not propose or require amendment of the site's underlying land use designation.

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

AQMP CONSISTENCY CONCLUSION

The Project would not have the potential to result in or cause NAAQS or CAAQS violations. The Project's proposed uses are consistent with the City's General Plan land use designation, and the proposed intensity is below the maximum density allowed by the City's General Plan. Additionally, the Project would not exceed the regional or localized construction and operational thresholds. As such, the Project is considered to be consistent with the AQMP.

4.11 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

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

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

4.11.1 FRIANT RANCH CASE

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, the California Supreme Court held that an 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.

As discussed in briefs filed in the Friant Ranch case, correlating a project's criteria air pollutant emissions to specific health impacts is challenging. The SCAQMD, which has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes, (47) noted that it may be "difficult to quantify health impacts for criteria pollutants." SCAQMD used O_3 as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but

very large, regional-scale projects. First, forming O_3 "takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources." (SCAQMD, 2015a, p. 11) Second, "it takes a large amount of additional precursor emissions (NO_X and VOCs) to cause a modeled increase in ambient ozone levels over an entire region," with a 2012 study showing that "reducing NO_X by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion." (SCAQMD, 2015a, pp. 12-14)

SCAQMD concluded that it "does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_X or VOC emissions from relatively small projects." (SCAQMD, 2015a, pp. 12-14) The San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) ties the difficulty of correlating the emission of criteria pollutants to health impacts to how ozone and particulate matter are formed, stating that "[b]ecause of the complexity of ozone formation, a specific tonnage amount of NO_X or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area." (SJVUAPCD, 2015, p. 4) Similarly, the tonnage of PM "emitted does not always equate to the local PM concentration because it can be transported long distances by wind," and "[s]econdary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO_X) and NO_X," meaning that "the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area." (SJVUAPCD, 2015, p. 5) The disconnect between the amount of precursor pollutants and the concentration of ozone or PM formed makes it difficult to determine potential health impacts, which are related to the concentration of ozone and particulate matter experienced by the receptor rather than levels of NO_X, SO_X, and VOCs produced by a source.

Most local agencies 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 cause 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.

The LST analysis above determined that the Project would not result in emissions exceeding SCAQMD's LSTs. Additionally, it should be noted that the proposed Project is significantly smaller than the project evaluated in the Friant Ranch case. 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_X, PM_{10}, and $PM_{2.5}$.

As the Project's emissions will 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 as explained, such modeling would not provide a reliable indicator of health effects if modeled.

4.11.2 DIESEL-FIRED PARTICULATES AND CARCINOGENIC IMPACT SHORT-TERM CONSTRUCTION

In order to assess the impact of particulate emissions throughout the surrounding community, air dispersion modeling using the U.S. EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) model has been utilized. For purposes of this analysis, the Lakes AERMOD View (Version 12.0.0) was used to calculate annual average particulate concentrations associated with site construction activities. Lakes AERMOD View was utilized to incorporate the U.S. EPA's latest AERMOD Version 23132 (48).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For the following health risk assessment, construction haul routes were modeled as adjacent volume sources using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the U.S. EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters. Emissions from on-site construction equipment were modeled using volume sources which were placed over the Project site. Meteorological data from the Brown Field monitoring station was utilized.

PROJECT DESIGN

As part of the Project's design, the project would utilize Tier 4 interim or final engine standards for all equipment greater than 50-hp that is diesel powered.

To represent exposure accurately, an exposure frequency of 250 days and exposure duration of 393 days (1.08 years) was assumed. For carcinogenic exposures associated with the maximum exposed individual (MEIR), the risks were predicted to be 3.11 in one million as presented on Table 4-14. Therefore, risk estimates do not exceed the SCAQMD's threshold of ten in one million. See Appendix 4.3 for a summary of AERMOD outputs for concentrations from construction activity previously discussed.

An evaluation of the potential noncancer effect of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from Office of Environmental Health Hazard Assessment (OEHHA) for this analysis.

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that chronic subthreshold exposures adversely affect a specific organ or organ system. To calculate hazard index, the chemical concentration or dose is divided by its REL. Where the total equals or exceeds one, a health hazard is presumed to exist. For purposes of this analysis

the hazard index for the respiratory endpoint totaled less than one and equals 5.2E-03 (0.0052) see Non-Cancer Hazards Index on Table 4-15 for more details.

TABLE 4-14: QUANTIFICATION OF CARCINOGENIC RISKS AND NONCARCINOGENIC HAZARDS - SHORT-TERM CONSTRUCTION ACTIVITY

Receptor No.	Age Bin	DPM Conc. ($\mu g/m^3$)	Exposure Frequency (days)	Exposure Duration (years)	Inhalation Rate (L/kg-day)	Inhalation Absorption Factor	Averaging Time (years)	FAH	ASF	Cancer Risk				Non-Cancer Risk								
										URF	CPF	Dose	Risk (per million)	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	REPRO	EYES
1	0 to 2	0.02576	250	1.08	1090	1	70	1.00	10	3.0E-04	1.1E+00	1.9E-05	3.11	5.0E+00	1.4E-03	5.2E-03						
(MEIR)												Total	3.11			5.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2	0 to 2	0.01726	250	1.08	1090	1	70	1.00	10	3.0E-04	1.1E+00	1.3E-05	2.08	5.0E+00	1.4E-03	3.5E-03						
												Total	2.08			3.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3	0 to 2	0.00247	250	1.08	1090	1	70	1.00	10	3.0E-04	1.1E+00	1.8E-06	0.30	5.0E+00	1.4E-03	4.9E-04						
												Total	0.30			4.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4	0 to 2	0.00587	250	1.08	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.4E-06	0.71	5.0E+00	1.4E-03	1.2E-03						
												Total	0.71			1.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

4.12 ODORS

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

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

The Project does not 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. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (49).

4.13 CUMULATIVE IMPACTS

As previously shown in Table 2-4, the CAAQS designates the Project site as nonattainment for O_3 PM_{10}, and $PM_{2.5}$ while the NAAQS designates the Project site as nonattainment for O_3 and $PM_{2.5}$.

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* (50). In this report the SCAQMD 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."*

Using the same thresholds for project-specific and cumulative impacts is not only appropriate but also logical because it ensures that the evaluation of a project's contribution to cumulative impacts is based on the same criteria used to assess its direct, project-specific effects. If a project exceeds the significance thresholds for individual impacts, it is deemed to contribute substantially to cumulative impacts. On the other hand, if the project does not exceed these thresholds, it is typically not considered to have a significant cumulative effect.

Therefore, applying the same significance thresholds for both project-specific and cumulative impacts provides a clear, standardized method for determining the significance of environmental effects, ensuring that the cumulative impact evaluation is grounded in the same robust, consistent criteria. This approach supports a comprehensive and transparent assessment of how a project contributes to broader environmental conditions and ensures that its effects, both in isolation and as part of the cumulative context, are thoroughly evaluated.

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

CONSTRUCTION IMPACTS

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

OPERATIONAL IMPACTS

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project 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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6 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Lincoln Way. 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

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EDUCATION

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

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

PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

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

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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

Appendix C
Maps and Tables of Area Designations for State and National Ambient Air Quality Standards

Appendix C
Maps and Tables of Area Designations for State and National Ambient Air Quality Standards

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

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

(Updated 5/4/16)

Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	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)[9]	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)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	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_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; 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)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	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[12]	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 (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 $\mu g/m^3$ 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°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 PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_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 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 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 $\mu g/m^3$)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 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.

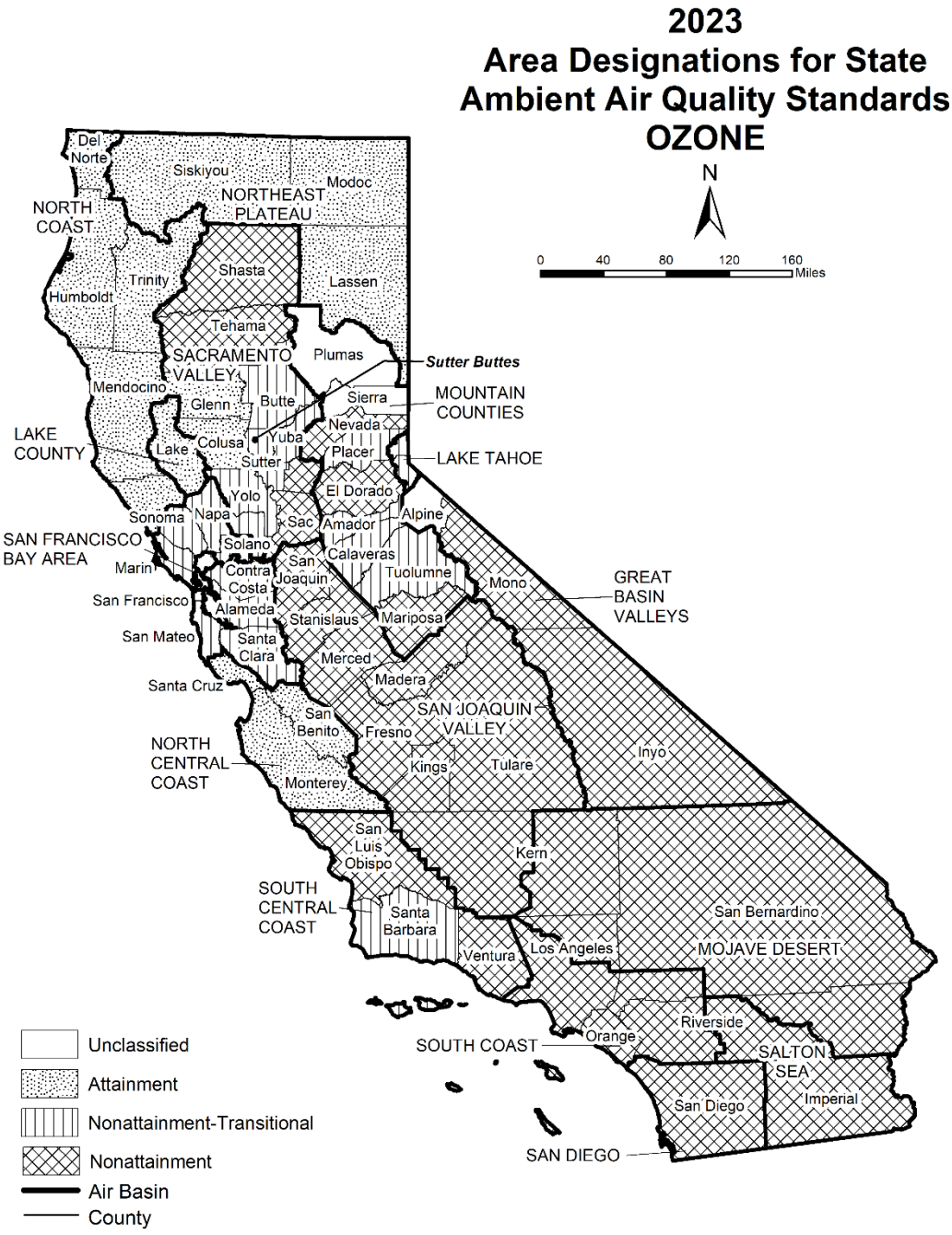
Area Designations for the State Ambient Air Quality Standards

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:

Designation	Abbreviation
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



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

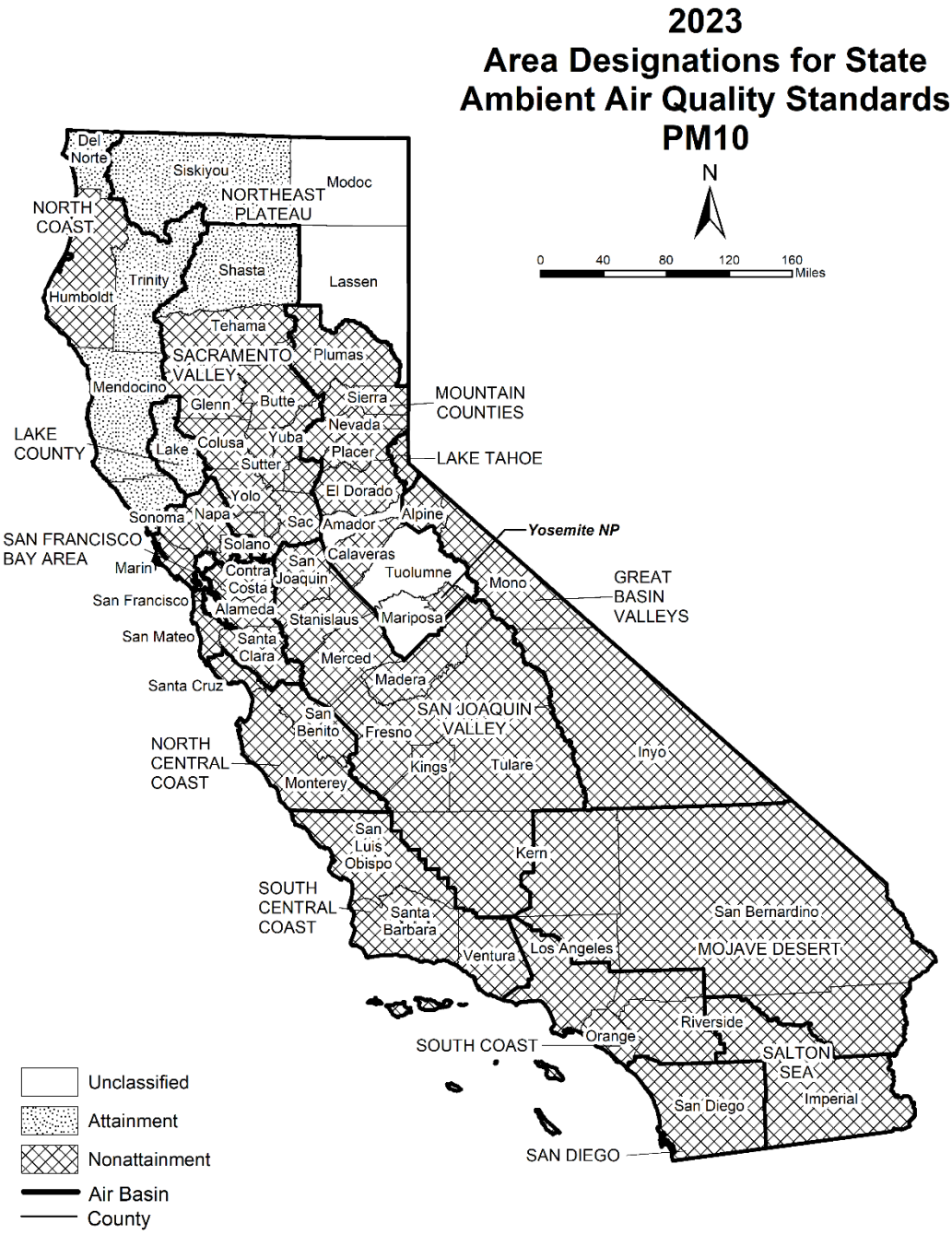
Table 1
California Ambient Air Quality Standards Area Designations for Ozone[1]

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			

[1] 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



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

Table 2
California Ambient Air Quality Standards Area Designations for Suspended Particulate Matter (PM_{10})

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

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

Table 3
California Ambient Air Quality Standards Area Designations for Fine Particulate Matter ($PM_{2.5}$)

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[1]	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[2]	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		

[1] California Code of Regulations, title 17, section 60200(c)

[2] California Code of Regulations, title 17, section 60200(a)

Figure 4

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

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

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

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

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

Figure 5

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

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

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

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

Figure 6

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

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

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

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

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

Figure 7

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

Table 7
California Ambient Air Quality Standards Area Designations for Sulfates

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

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

Figure 8

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

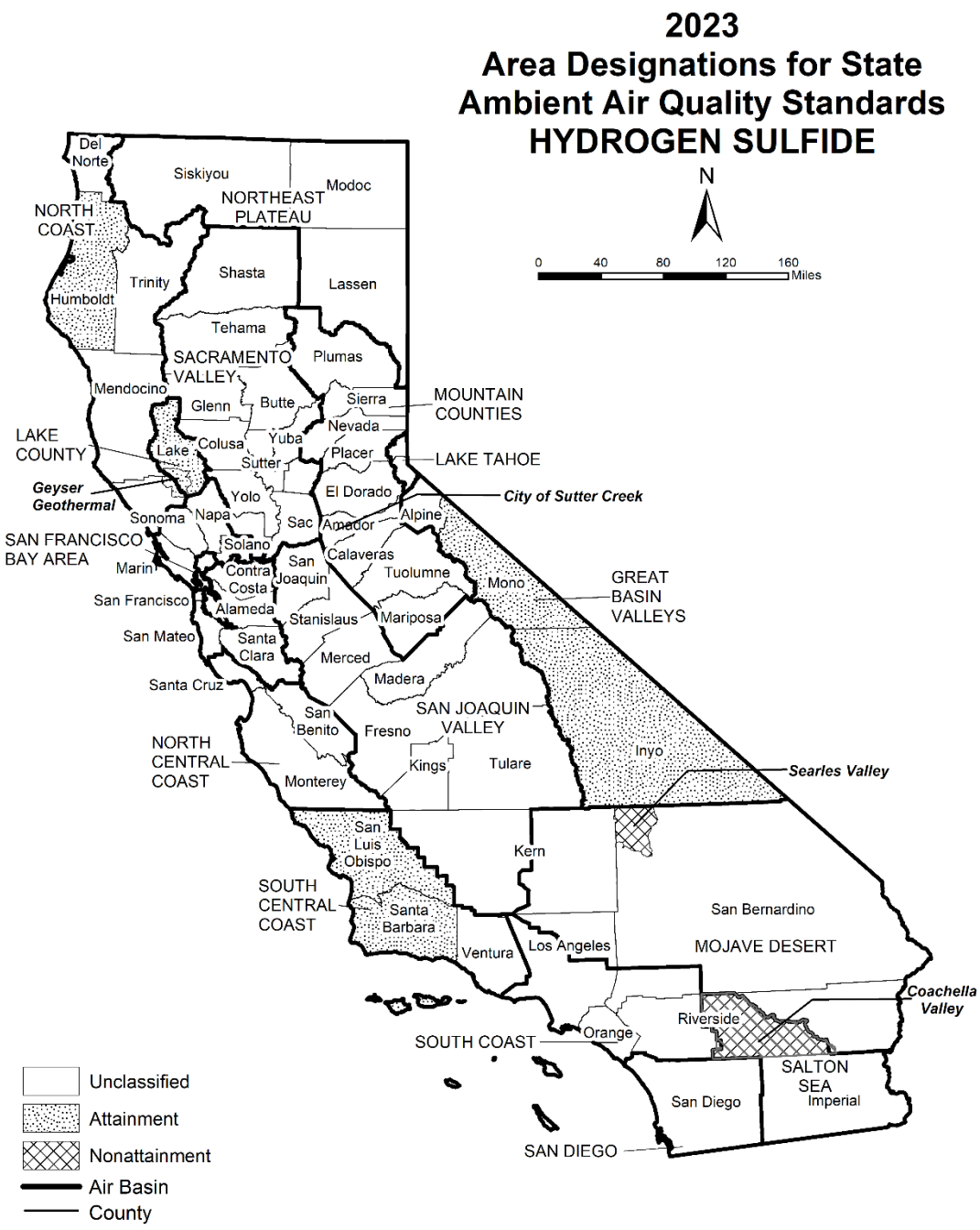
Table 8
California Ambient Air Quality Standards Area Designations for Lead (particulate)*

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[1]	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	

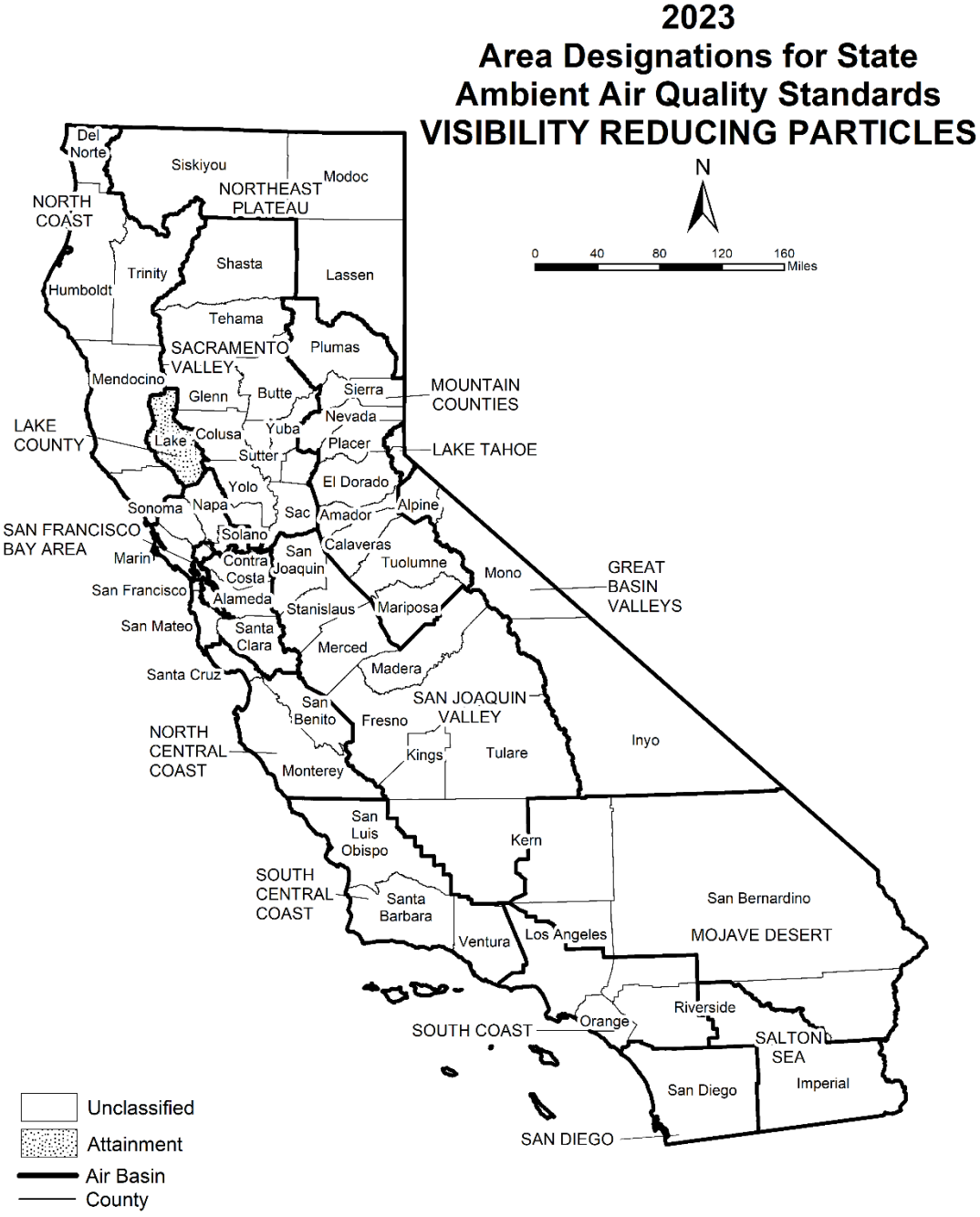
Area	N	NA-T	U	A
NORTH CENTRAL COAST AIR BASIN			U	
NORTH COAST AIR BASIN				
Del Norte County			U	
Humboldt County				A
Mendocino County			U	
Sonoma County (portion)				
- Geyser Geothermal Area[2]				A
- Remainder of County			U	
Trinity County			U	
NORTHEAST PLATEAU AIR BASIN			U	
SACRAMENTO VALLEY 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

[1] 52 Federal Register 29384 (August 7, 1987)

[2] 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_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

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

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). 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 $PM_{2.5}$ standard of 12.0 µg/m^3. 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^3 as well as the 24-hour standard of 35 µg/m^3, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). 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_2 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_2 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^3. 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*

Figure 11

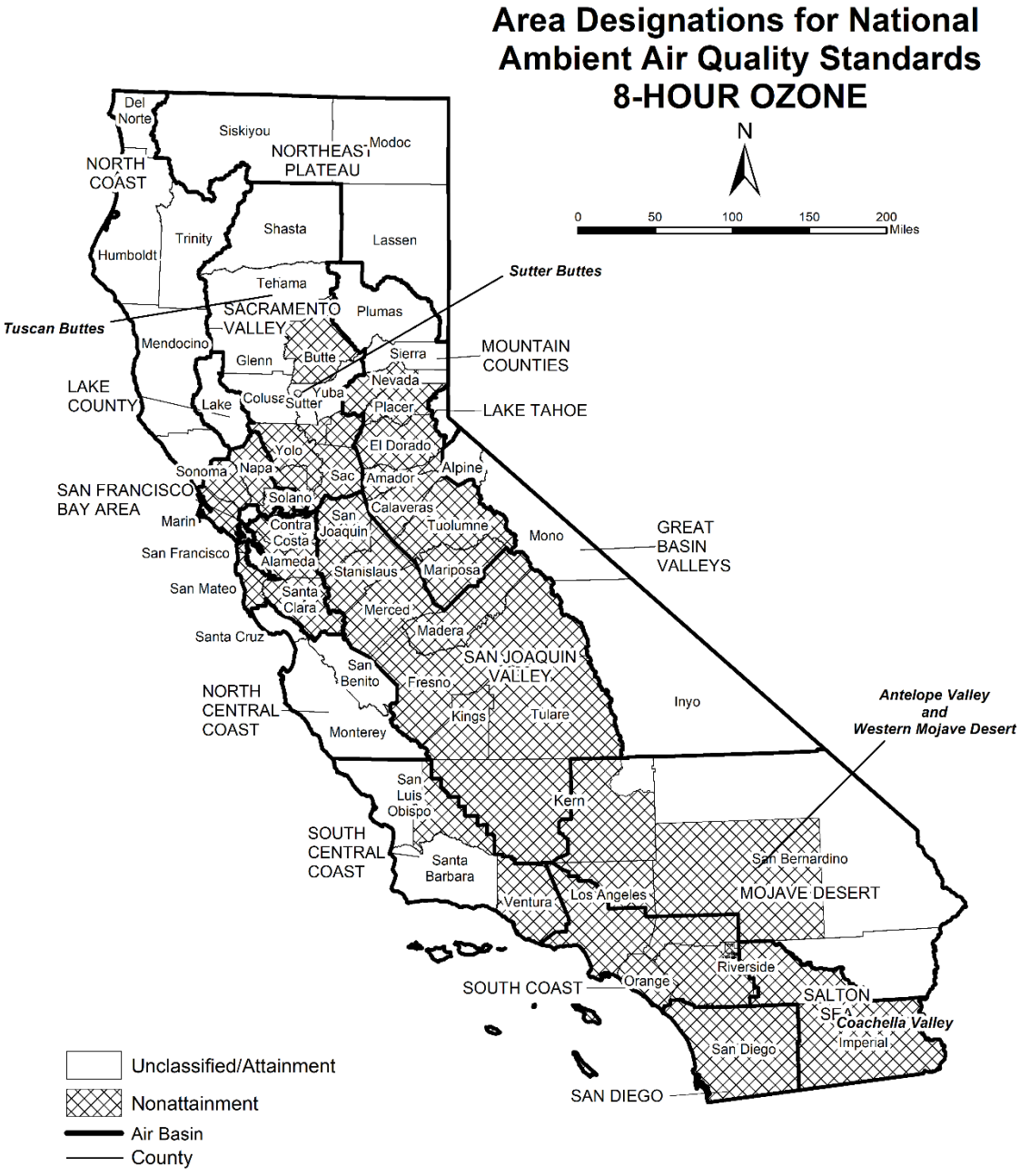

Area Designations for National Ambient Air Quality Standards
8-HOUR OZONE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
Sutter Buttes
Tuscan Buttes
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Lake
Colusa
Yuba
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
Inyo
Antelope Valley and Western Mojave Desert
NORTH CENTRAL COAST
Kings
Tulare
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
MOJAVE DESERT
Riverside
SOUTH COAST
Orange
SALTON SEA
Coachella Valley
Imperial
San Diego
SAN DIEGO
Unclassified/Attainment
Nonattainment
Air Basin
County
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)[1]	N	
Mariposa County	N	
Nevada County		
- Western Nevada County	N	
- Remainder of County		U/A
Placer County (portion)[1]	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[1]	N	
Shasta County		U/A
Sutter County		
- Sutter Buttes	N	
- Southern portion of Sutter County[1]	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[1]	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[2]		
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[2]		U/A
SOUTH COAST AIR BASIN[2]	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.

---

[1] 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.

[2] 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

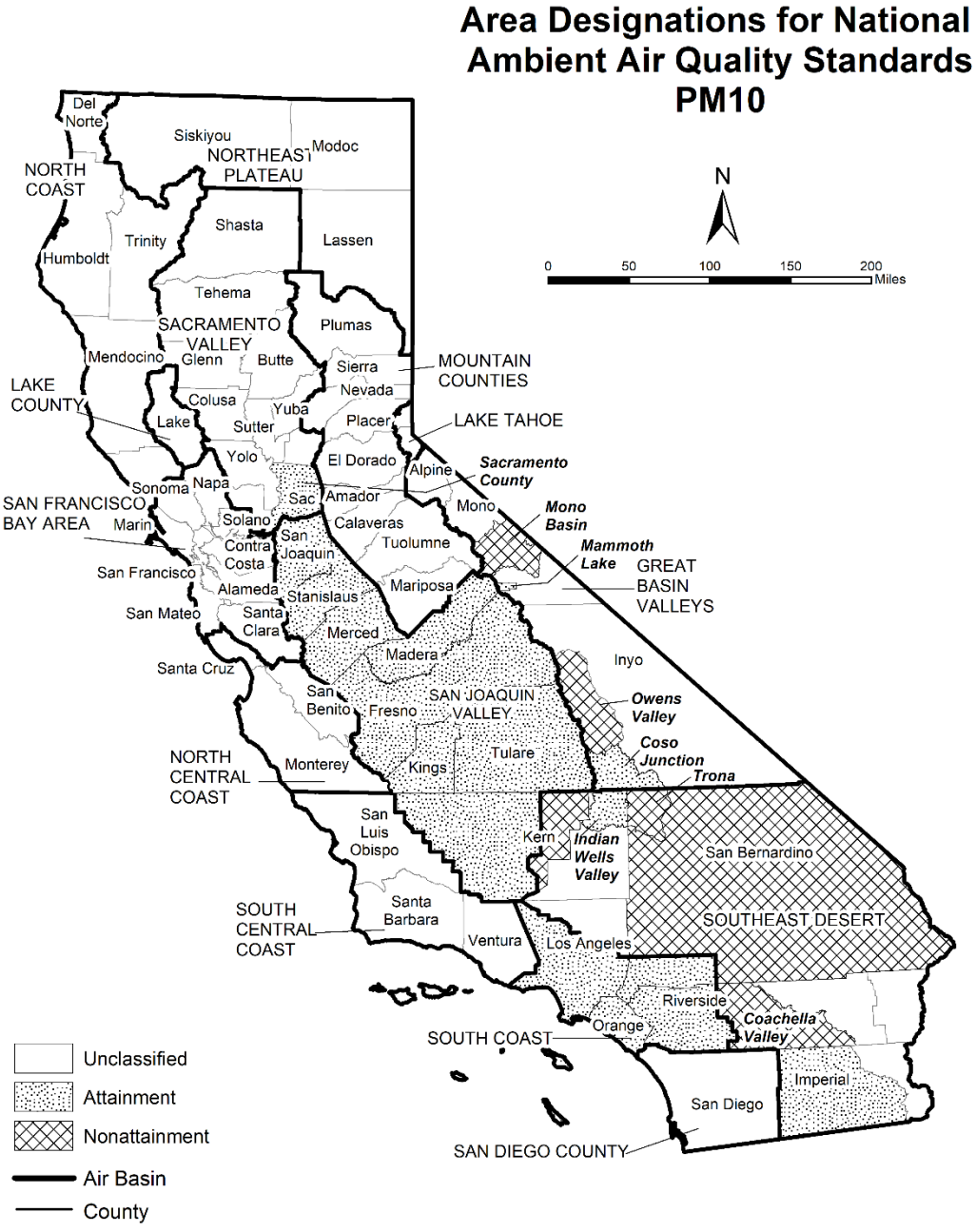

Area Designations for National Ambient Air Quality Standards PM10
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Trinity
Lassen
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Alpine
Sacramento County
Sonoma
Napa
Sac
Amador
Mono
Mono Basin
SAN FRANCISCO BAY AREA
Marin
Solano
Calaveras
San Joaquin
Tuolumne
Mammoth Lake
Contra Costa
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Inyo
Santa Cruz
San Benito
Fresno
SAN JOAQUIN VALLEY
Owens Valley
Coso Junction
Trona
NORTH CENTRAL COAST
Monterey
Kings
Tulare
San Luis Obispo
Kern
Indian Wells Valley
San Bernardino
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Ventura
Los Angeles
Riverside
Coachella Valley
Orange
SOUTH COAST
Imperial
San Diego
SAN DIEGO COUNTY
Unclassified
Attainment
Nonattainment
Air Basin
County
Last Updated: November 2023
Air Quality Planning and Science Division

Table 12
National Ambient Air Quality Standards Area Designations for Suspended Particulate Matter (PM_{10})*

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[1]			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[2]			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.

[1] Air quality in Sacramento County meets the national PM_{10} standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

[2] 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

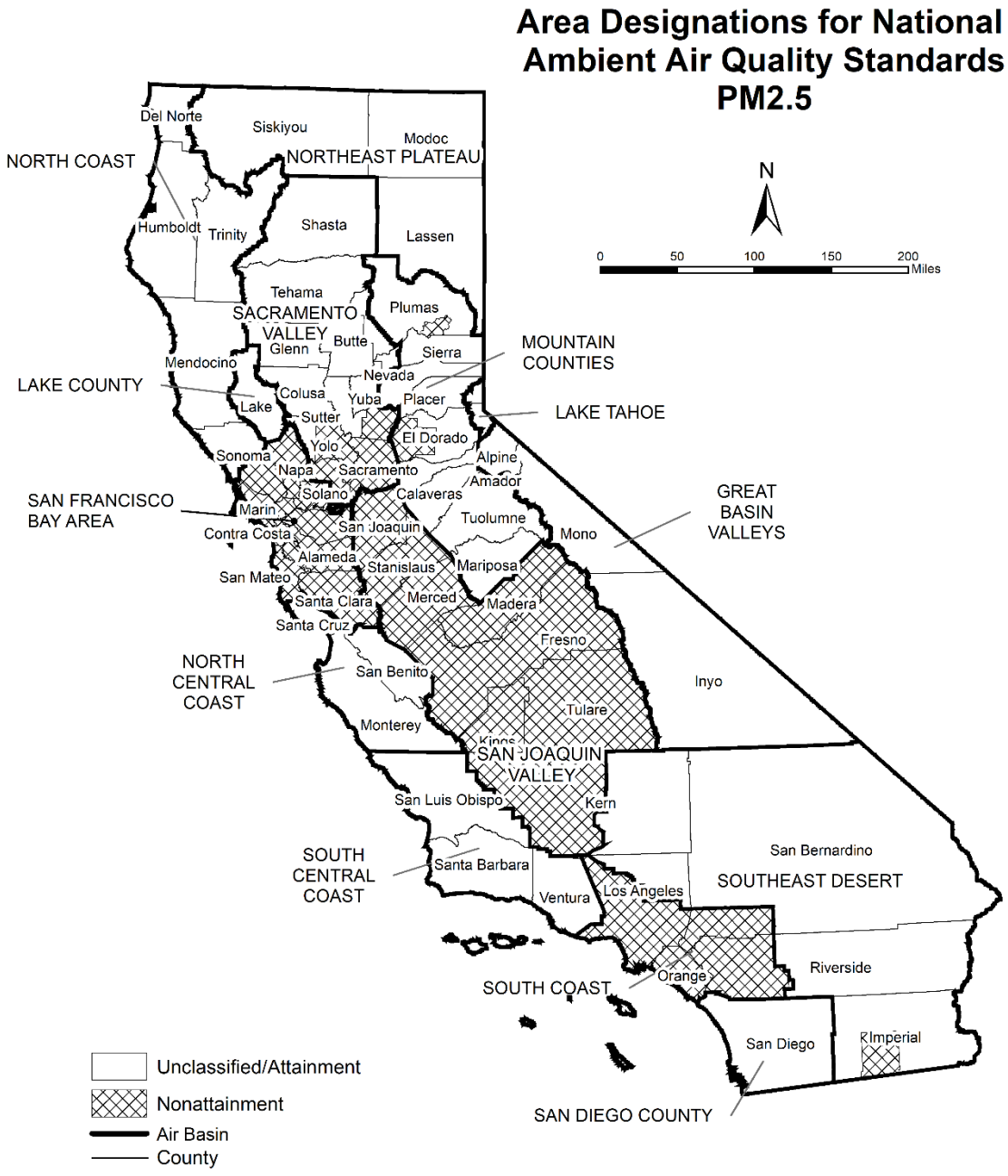

Area Designations for National Ambient Air Quality Standards PM2.5
N
0 50 100 150 200 Miles
NORTH COAST
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
Humboldt
Trinity
Shasta
Lassen
Tehama
SACRAMENTO VALLEY
Plumas
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Mendocino
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
El Dorado
Yolo
Sonoma
Alpine
Napa
Sacramento
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
GREAT BASIN VALLEYS
Marin
Tuolumne
Contra Costa
San Joaquin
Mono
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
Fresno
NORTH CENTRAL COAST
San Benito
Inyo
Tulare
Monterey
Kings
SAN JOAQUIN VALLEY
San Luis Obispo
Kern
San Bernardino
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Ventura
Los Angeles
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Last Updated: November 2023
Air Quality Planning and Science Division

Table 13
National Ambient Air Quality Standards Area Designations for Fine Particulate Matter ($PM_{2.5}$)

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[1]	N	
Remainder of Air Basin		U/A

Area	N	U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN[2]	N	
SAN JOAQUIN VALLEY AIR BASIN	N	
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN[3]	N	
SOUTHEAST DESERT AIR BASIN		
Imperial County (portion)[4]	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 $PM_{2.5}$ standard as well as the 1997 and 2012 $PM_{2.5}$ annual standards.

[1] 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 $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

[2] Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

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

[4] 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 $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ 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
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A

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

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

Figure 15

Area Designations for National Ambient Air Quality Standards
NITROGEN DIOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
Plumas
SACRAMENTO VALLEY
Mendocino
Glenn
Butte
Sierra
Nevada
MOUNTAIN COUNTIES
Colusa
Yuba
Placer
LAKE COUNTY
Lake
Sutter
LAKE TAHOE
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Marin
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Tulare
Inyo
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Last Updated: November 2023
Air Quality Planning and Science Division

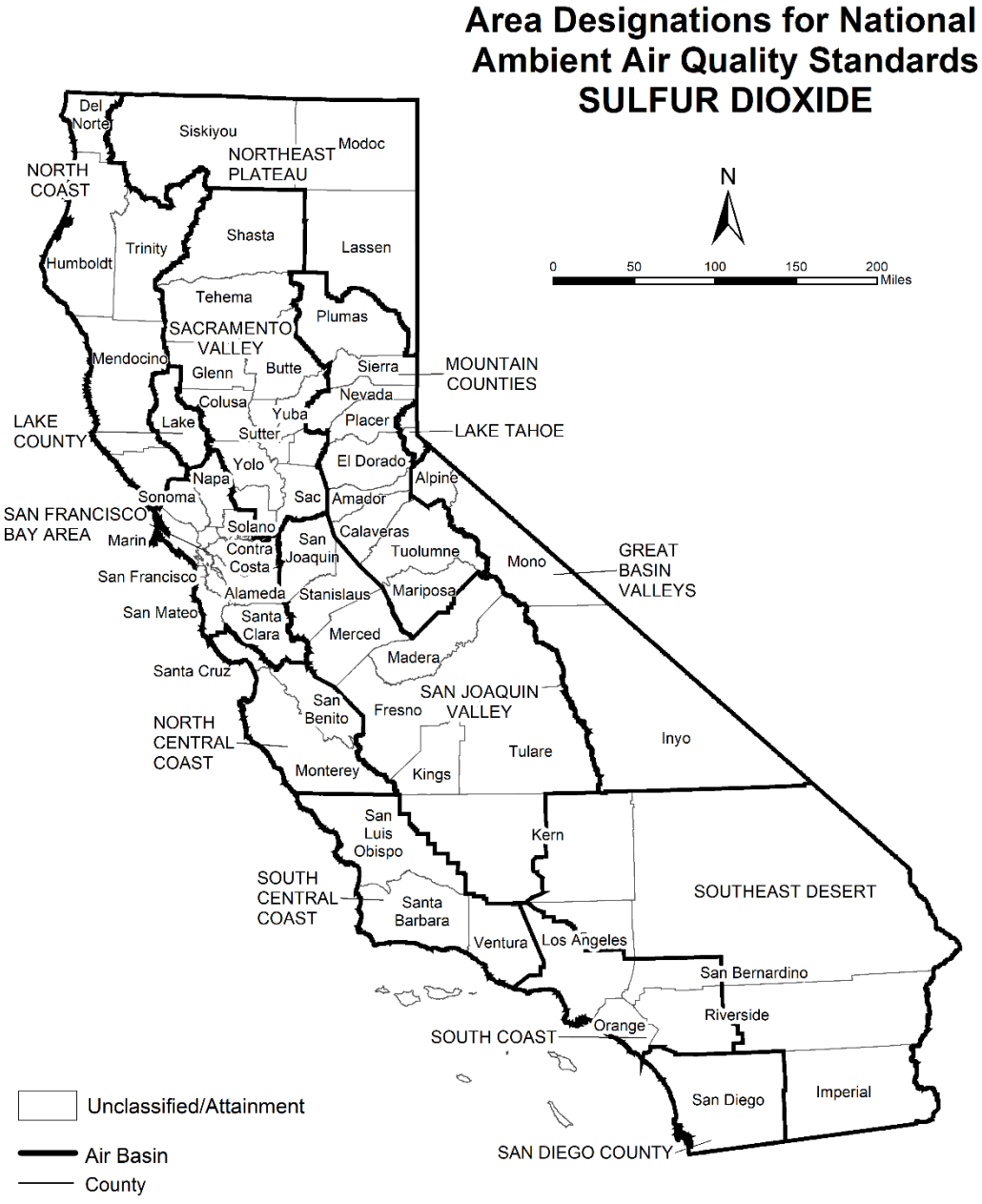
Table 15
National Ambient Air Quality Standards Area Designations for Nitrogen Dioxide*

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[1]		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_2 standard of 75 ppb.

[1] 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

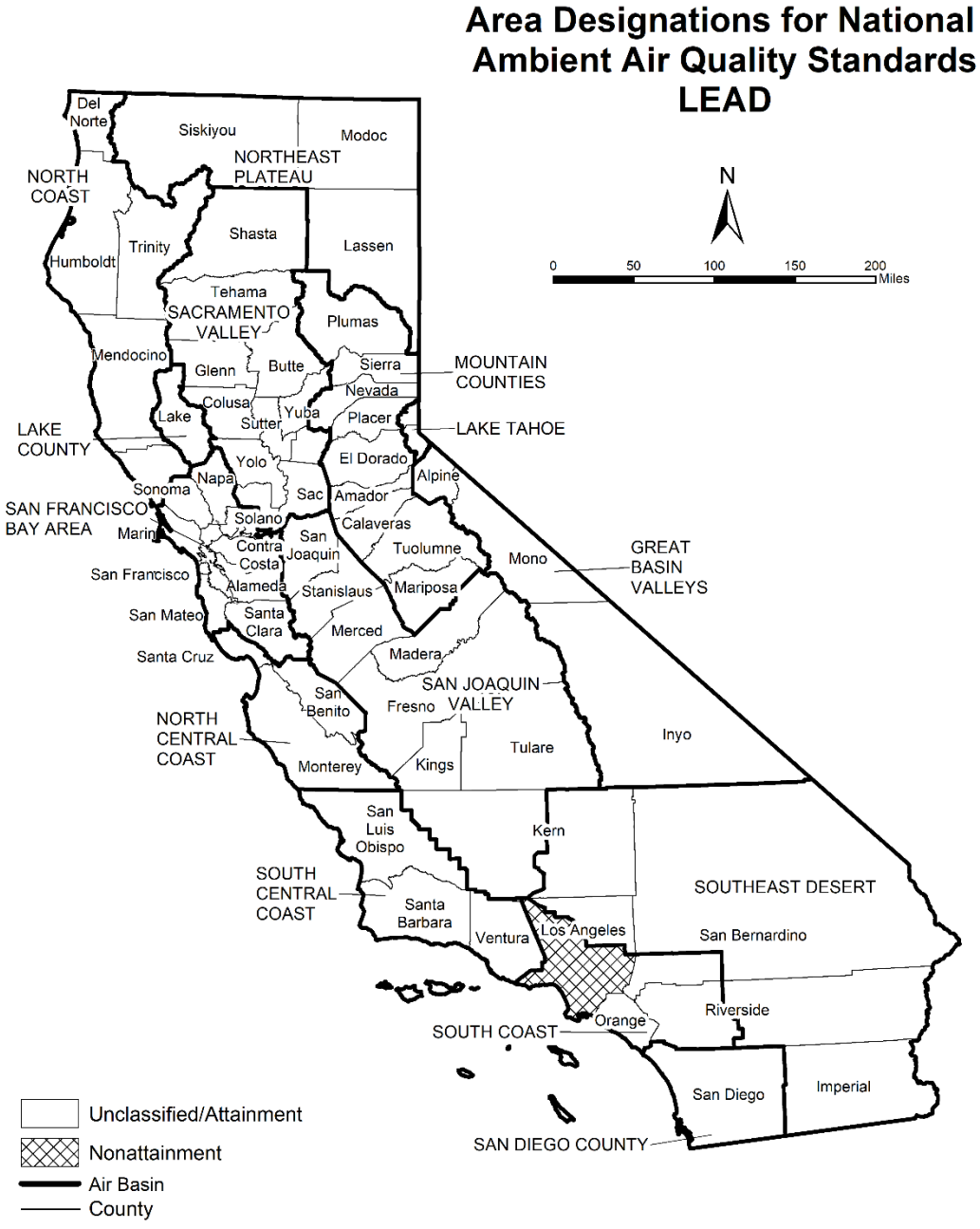

Area Designations for National Ambient Air Quality Standards
LEAD
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
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)[1]	N	
Remainder of Air Basin		U/A
SOUTHEAST DESERT AIR BASIN		U/A

[1] Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

CALEEMOD EXISTING EMISSIONS MODEL OUTPUTS

Lincoln Way (Existing Operations) Detailed Report

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1. Basic Project Information

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4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Lincoln Way (Existing Operations)
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	6.20
Location	7441 Lincoln Way, Garden Grove, CA 92841, USA
County	Orange
City	Garden Grove
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5869
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	43.9	1000sqft	1.01	43,946	0.00	—	—	—
Parking Lot	36.0	Space	0.14	0.00	0.00	—	—	—

Other Asphalt Surfaces	25.3	1000sqft	0.58	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.	1.59	1.53	0.42	3.43	0.01	0.03	0.33	0.36	0.03	0.08	0.11	37.0	1,511	1,548	3.86	0.06	1.20	1,663
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.25	1.22	0.42	1.43	0.01	0.02	0.33	0.35	0.02	0.08	0.11	37.0	1,489	1,526	3.86	0.06	0.14	1,641
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.44	1.39	0.40	2.44	< 0.005	0.03	0.24	0.27	0.03	0.06	0.09	37.0	1,408	1,445	3.86	0.06	0.45	1,558
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.25	0.07	0.45	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.02	6.12	233	239	0.64	0.01	0.07	258

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	0.16	0.15	0.11	1.27	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	347	347	0.01	0.01	1.09	353
Area	1.40	1.37	0.02	1.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.86	7.86	< 0.005	< 0.005	—	7.89
Energy	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,105	1,105	0.10	0.01	—	1,110
Water	—	—	—	—	—	—	—	—	—	—	—	15.0	50.4	65.4	1.54	0.04	—	115
Waste	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	77.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	1.59	1.53	0.42	3.43	0.01	0.03	0.33	0.36	0.03	0.08	0.11	37.0	1,511	1,548	3.86	0.06	1.20	1,663
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	0.15	0.12	1.18	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	334	334	0.02	0.01	0.03	339
Area	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,105	1,105	0.10	0.01	—	1,110
Water	—	—	—	—	—	—	—	—	—	—	—	15.0	50.4	65.4	1.54	0.04	—	115
Waste	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	77.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	1.25	1.22	0.42	1.43	0.01	0.02	0.33	0.35	0.02	0.08	0.11	37.0	1,489	1,526	3.86	0.06	0.14	1,641
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12	0.11	0.09	0.88	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.06	—	247	247	0.01	0.01	0.34	250
Area	1.29	1.27	0.01	1.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.38	5.38	< 0.005	< 0.005	—	5.40
Energy	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	1,105	1,105	0.10	0.01	—	1,110
Water	—	—	—	—	—	—	—	—	—	—	—	15.0	50.4	65.4	1.54	0.04	—	115
Waste	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	77.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	1.44	1.39	0.40	2.44	< 0.005	0.03	0.24	0.27	0.03	0.06	0.09	37.0	1,408	1,445	3.86	0.06	0.45	1,558
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.02	0.02	0.02	0.16	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	40.9	40.9	< 0.005	< 0.005	0.06	41.5
Area	0.24	0.23	< 0.005	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.89	0.89	< 0.005	< 0.005	—	0.89
Energy	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	183	183	0.02	< 0.005	—	184
Water	—	—	—	—	—	—	—	—	—	—	—	2.48	8.35	10.8	0.25	0.01	—	19.0
Waste	—	—	—	—	—	—	—	—	—	—	—	3.65	0.00	3.65	0.36	0.00	—	12.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.26	0.25	0.07	0.45	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.02	6.12	233	239	0.64	0.01	0.07	258

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.16	0.15	0.11	1.27	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	347	347	0.01	0.01	1.09	353
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	0.15	0.11	1.27	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	347	347	0.01	0.01	1.09	353
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	0.16	0.15	0.12	1.18	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	334	334	0.02	0.01	0.03	339
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	0.15	0.12	1.18	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	334	334	0.02	0.01	0.03	339
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.02	0.02	0.02	0.16	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	40.9	40.9	< 0.005	< 0.005	0.06	41.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.02	0.16	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	40.9	40.9	< 0.005	< 0.005	0.06	41.5

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	743	743	0.07	0.01	—	747
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.07	5.07	< 0.005	< 0.005	—	5.10

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	748	748	0.07	0.01	—	752
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	743	743	0.07	0.01	—	747
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.07	5.07	< 0.005	< 0.005	—	5.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	748	748	0.07	0.01	—	752
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	123	123	0.01	< 0.005	—	124
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.84	0.84	< 0.005	< 0.005	—	0.84
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	124	124	0.01	< 0.005	—	125

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	357	357	0.03	< 0.005	—	358
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	357	357	0.03	< 0.005	—	358
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	357	357	0.03	< 0.005	—	358
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.02	0.30	0.25	< 0.005	0.02	—	0.02	0.02	—	0.02	—	357	357	0.03	< 0.005	—	358
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.1	59.1	0.01	< 0.005	—	59.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	< 0.005	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	59.1	59.1	0.01	< 0.005	—	59.3

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	0.94	0.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.11	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.34	0.31	0.02	1.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.86	7.86	< 0.005	< 0.005	—	7.89
Total	1.40	1.37	0.02	1.91	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.86	7.86	< 0.005	< 0.005	—	7.89
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.94	0.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.11	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.06	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.04	< 0.005	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.89	0.89	< 0.005	< 0.005	—	0.89
Total	0.24	0.23	< 0.005	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.89	0.89	< 0.005	< 0.005	—	0.89

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	15.0	50.4	65.4	1.54	0.04	—	115
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	15.0	50.4	65.4	1.54	0.04	—	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	15.0	50.4	65.4	1.54	0.04	—	115
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	15.0	50.4	65.4	1.54	0.04	—	115
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.48	8.35	10.8	0.25	0.01	—	19.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2.48	8.35	10.8	0.25	0.01	—	19.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	77.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	77.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	77.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.0	0.00	22.0	2.20	0.00	—	77.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.65	0.00	3.65	0.36	0.00	—	12.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.65	0.00	3.65	0.36	0.00	—	12.8

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
General Office Building	48.0	4.06	1.63	12,810	465	39.4	15.8	124,169
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	65,919	21,973	1,882

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)
General Office Building	783,130	346	0.0330	0.0040	1,113,876
Parking Lot	5,342	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	7,810,687	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

General Office Building	40.9	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	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

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	8.25	annual days of extreme heat
Extreme Precipitation	3.60	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.78	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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 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	37.6
AQ-PM	69.6
AQ-DPM	62.6
Drinking Water	66.0
Lead Risk Housing	49.2
Pesticides	14.9
Toxic Releases	99.3
Traffic	74.3
Effect Indicators	—
CleanUp Sites	91.7
Groundwater	89.6

Haz Waste Facilities/Generators	97.2
Impaired Water Bodies	0.00
Solid Waste	94.2
Sensitive Population	—
Asthma	60.1
Cardio-vascular	65.6
Low Birth Weights	99.4
Socioeconomic Factor Indicators	—
Education	66.6
Housing	54.1
Linguistic	—
Poverty	54.2
Unemployment	22.6

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	50.3143847
Employed	70.02438085
Median HI	54.76709868
Education	—
Bachelor's or higher	42.51251123
High school enrollment	100
Preschool enrollment	21.10868728
Transportation	—
Auto Access	77.83908636
Active commuting	46.19530348

Social	—
2-parent households	98.48582061
Voting	15.79622738
Neighborhood	—
Alcohol availability	15.24445015
Park access	34.1973566
Retail density	91.50519697
Supermarket access	84.92236623
Tree canopy	26.21583472
Housing	—
Homeownership	67.1885025
Housing habitability	64.84024124
Low-inc homeowner severe housing cost burden	45.7590145
Low-inc renter severe housing cost burden	53.67637624
Uncrowded housing	40.20274605
Health Outcomes	—
Insured adults	35.27524702
Arthritis	0.0
Asthma ER Admissions	55.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	28.0
Cognitively Disabled	26.7
Physically Disabled	88.8

Heart Attack ER Admissions	66.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.4
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	8.5
Elderly	64.7
English Speaking	23.4
Foreign-born	63.4
Outdoor Workers	87.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	14.3
Traffic Density	67.4
Traffic Access	74.4
Other Indices	—
Hardship	52.9
Other Decision Support	—
2016 Voting	50.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	89.0
Healthy Places Index Score for Project Location (b)	54.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 2.15 acres
Construction: Architectural Coatings	Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

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APPENDIX 4.1:

CALEEMOD PROJECT EMISSIONS MODEL OUTPUTS

Lincoln Way (Off-Site Improvements) 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	Lincoln Way (Off-Site Improvements)
Construction Start Date	3/26/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	6.20
Location	7441 Lincoln Way, Garden Grove, CA 92841, USA
County	Orange
City	Garden Grove
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5869
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Road Widening	0.02	Mile	0.13	0.00	—	—	—	—
Road Construction	0.05	Mile	0.02	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.20	1.85	16.5	16.1	0.03	0.67	2.13	2.80	0.62	0.94	1.56	—	3,898	3,898	0.15	0.04	0.61	3,915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.19	1.85	16.5	16.0	0.03	0.67	2.11	2.78	0.62	0.94	1.55	—	3,829	3,829	0.15	0.03	0.01	3,843
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.24	0.20	1.81	1.75	< 0.005	0.07	0.20	0.27	0.07	0.09	0.16	—	423	423	0.02	< 0.005	0.02	425
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.04	0.33	0.32	< 0.005	0.01	0.04	0.05	0.01	0.02	0.03	—	70.0	70.0	< 0.005	< 0.005	< 0.005	70.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.20	1.85	16.5	16.1	0.03	0.67	2.13	2.80	0.62	0.94	1.56	—	3,898	3,898	0.15	0.04	0.61	3,915

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.19	1.85	16.5	16.0	0.03	0.67	2.11	2.78	0.62	0.94	1.55	—	3,829	3,829	0.15	0.03	0.01	3,843
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.24	0.20	1.81	1.75	< 0.005	0.07	0.20	0.27	0.07	0.09	0.16	—	423	423	0.02	< 0.005	0.02	425
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04	0.04	0.33	0.32	< 0.005	0.01	0.04	0.05	0.01	0.02	0.03	—	70.0	70.0	< 0.005	< 0.005	< 0.005	70.3

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.81	16.4	15.5	0.03	0.67	—	0.67	0.62	—	0.62	—	3,705	3,705	0.15	0.03	—	3,717
Dust From Material Movement	—	—	—	—	—	—	1.98	1.98	—	0.91	0.91	—	—	—	—	—	—	—
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-Roa Equipment	0.02	0.02	0.18	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.6	40.6	< 0.005	< 0.005	—	40.7
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.72	6.72	< 0.005	< 0.005	—	6.74
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	124	124	< 0.005	< 0.005	0.01	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.39
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.23
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

3.3. Linear, Grading & Excavation (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	2.16	1.81	16.4	15.5	0.03	0.67	—	0.67	0.62	—	0.62	—	3,705	3,705	0.15	0.03	—	3,717
Dust From Material Movement	—	—	—	—	—	—	1.98	1.98	—	0.91	0.91	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.81	0.76	< 0.005	0.03	—	0.03	0.03	—	0.03	—	183	183	0.01	< 0.005	—	183
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.04	0.04	—	—	—	—	—	—	—

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	0.15	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.2	30.2	< 0.005	< 0.005	—	30.4
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.53	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	130	130	< 0.005	< 0.005	0.45	132
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.7	62.7	< 0.005	0.01	0.16	65.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.20	6.20	< 0.005	< 0.005	0.01	6.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.09	3.09	< 0.005	< 0.005	< 0.005	3.23
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.03	1.03	< 0.005	< 0.005	< 0.005	1.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.54
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. Linear, Drainage, Utilities, & Sub-Grade (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	2.16	1.81	16.4	15.5	0.03	0.67	—	0.67	0.62	—	0.62	—	3,705	3,705	0.15	0.03	—	3,717
Dust From Material Movement	—	—	—	—	—	—	1.98	1.98	—	0.91	0.91	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.54	0.51	< 0.005	0.02	—	0.02	0.02	—	0.02	—	122	122	< 0.005	< 0.005	—	122
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.10	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.2	20.2	< 0.005	< 0.005	—	20.2
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.53	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	130	130	< 0.005	< 0.005	0.45	132
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	0.01	4.18
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Linear, Paving (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	2.16	1.81	16.4	15.5	0.03	0.67	—	0.67	0.62	—	0.62	—	3,705	3,705	0.15	0.03	—	3,717
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.27	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.9	60.9	< 0.005	< 0.005	—	61.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.1	10.1	< 0.005	< 0.005	—	10.1
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	0.03	0.53	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	130	130	< 0.005	< 0.005	0.45	132
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.07	2.07	< 0.005	< 0.005	< 0.005	2.09
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.35
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	3/26/2026	3/31/2026	5.00	4.00	—

Linear, Grading & Excavation	Linear, Grading & Excavation	4/1/2026	4/26/2026	5.00	18.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	4/27/2026	5/13/2026	5.00	12.0	—
Linear, Paving	Linear, Paving	5/14/2026	5/22/2026	5.00	6.00	—

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
Linear, Grubbing & Land Clearing	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Linear, Grubbing & Land Clearing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Grubbing & Land Clearing	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grubbing & Land Clearing	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Grading & Excavation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Linear, Grading & Excavation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Drainage, Utilities, & Sub-Grade	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Drainage, Utilities, & Sub-Grade	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Linear, Drainage, Utilities, & Sub-Grade	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Linear, Paving	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Linear, Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Paving	Scrapers	Diesel	Average	1.00	8.00	423	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	10.0	18.5	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	10.2	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	—	—	HHDT
Linear, Grading & Excavation	—	—	—	—
Linear, Grading & Excavation	Worker	10.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	2.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	—	HHDT
Linear, Drainage, Utilities, & Sub-Grade	—	—	—	—
Linear, Drainage, Utilities, & Sub-Grade	Worker	10.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	0.00	20.0	HHDT

Linear, Drainage, Utilities, & Sub-Grade	Onsite truck	—	—	HHDT
Linear, Paving	—	—	—	—
Linear, Paving	Worker	10.0	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	0.00	20.0	HHDT
Linear, Paving	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)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grubbing & Land Clearing	—	—	0.15	0.00	—
Linear, Grading & Excavation	—	—	0.15	0.00	—
Linear, Drainage, Utilities, & Sub-Grade	—	—	0.15	0.00	—

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
Road Widening	0.13	100%
Road Construction	0.02	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	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	8.25	annual days of extreme heat
Extreme Precipitation	3.60	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.78	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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 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	37.6

AQ-PM	69.6
AQ-DPM	62.6
Drinking Water	66.0
Lead Risk Housing	49.2
Pesticides	14.9
Toxic Releases	99.3
Traffic	74.3
Effect Indicators	—
CleanUp Sites	91.7
Groundwater	89.6
Haz Waste Facilities/Generators	97.2
Impaired Water Bodies	0.00
Solid Waste	94.2
Sensitive Population	—
Asthma	60.1
Cardio-vascular	65.6
Low Birth Weights	99.4
Socioeconomic Factor Indicators	—
Education	66.6
Housing	54.1
Linguistic	—
Poverty	54.2
Unemployment	22.6

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	50.3143847
Employed	70.02438085
Median HI	54.76709868
Education	—
Bachelor's or higher	42.51251123
High school enrollment	100
Preschool enrollment	21.10868728
Transportation	—
Auto Access	77.83908636
Active commuting	46.19530348
Social	—
2-parent households	98.48582061
Voting	15.79622738
Neighborhood	—
Alcohol availability	15.24445015
Park access	34.1973566
Retail density	91.50519697
Supermarket access	84.92236623
Tree canopy	26.21583472
Housing	—
Homeownership	67.1885025
Housing habitability	64.84024124
Low-inc homeowner severe housing cost burden	45.7590145
Low-inc renter severe housing cost burden	53.67637624
Uncrowded housing	40.20274605
Health Outcomes	—
Insured adults	35.27524702
Arthritis	0.0

Asthma ER Admissions	55.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	28.0
Cognitively Disabled	26.7
Physically Disabled	88.8
Heart Attack ER Admissions	66.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.4
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	8.5
Elderly	64.7
English Speaking	23.4
Foreign-born	63.4

Outdoor Workers	87.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	14.3
Traffic Density	67.4
Traffic Access	74.4
Other Indices	—
Hardship	52.9
Other Decision Support	—
2016 Voting	50.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	89.0
Healthy Places Index Score for Project Location (b)	54.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Off-Road Equipment	Equipment based on consultation with the Team

Lincoln Way 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	Lincoln Way
Construction Start Date	12/1/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	6.20
Location	7441 Lincoln Way, Garden Grove, CA 92841, USA
County	Orange
City	Garden Grove
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5869
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	50.3	1000sqft	1.43	50,300	12,010	—	—	—

User Defined Industrial	50.3	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	36.0	Space	0.14	0.00	0.00	—	—	—
Other Asphalt Surfaces	25.3	1000sqft	0.58	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.73	0.62	5.41	7.22	0.01	0.21	0.33	0.54	0.19	0.08	0.27	—	1,895	1,895	0.07	0.05	1.44	1,912
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.1	17.0	21.2	18.0	0.05	0.76	2.82	3.58	0.71	0.96	1.61	—	6,444	6,444	0.36	0.46	0.16	6,589
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.44	1.31	5.77	6.63	0.01	0.23	0.53	0.76	0.21	0.20	0.41	—	1,698	1,698	0.07	0.04	0.41	1,712
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	0.24	1.05	1.21	< 0.005	0.04	0.10	0.14	0.04	0.04	0.07	—	281	281	0.01	0.01	0.07	283

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.73	0.62	5.41	7.22	0.01	0.21	0.33	0.54	0.19	0.08	0.27	—	1,895	1,895	0.07	0.05	1.44	1,912
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.55	1.99	21.2	18.0	0.05	0.76	2.82	3.58	0.71	0.94	1.61	—	6,444	6,444	0.36	0.46	0.16	6,589
2026	17.1	17.0	16.9	16.1	0.04	0.67	2.20	2.87	0.62	0.96	1.58	—	4,166	4,166	0.18	0.09	0.04	4,196
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.16	0.12	1.31	1.12	< 0.005	0.05	0.17	0.22	0.04	0.04	0.08	—	385	385	0.02	0.03	0.15	393
2026	1.44	1.31	5.77	6.63	0.01	0.23	0.53	0.76	0.21	0.20	0.41	—	1,698	1,698	0.07	0.04	0.41	1,712
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.03	0.02	0.24	0.20	< 0.005	0.01	0.03	0.04	0.01	0.01	0.01	—	63.7	63.7	< 0.005	< 0.005	0.02	65.1
2026	0.26	0.24	1.05	1.21	< 0.005	0.04	0.10	0.14	0.04	0.04	0.07	—	281	281	0.01	0.01	0.07	283

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.	2.53	2.28	4.10	6.23	0.03	0.11	1.24	1.35	0.11	0.33	0.44	47.8	3,644	3,692	5.03	0.46	8.08	3,963
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.13	1.92	4.19	3.93	0.03	0.11	1.24	1.35	0.11	0.33	0.44	47.8	3,619	3,667	5.03	0.46	0.21	3,931
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.83	1.68	2.29	3.65	0.02	0.04	0.90	0.94	0.04	0.24	0.28	47.8	2,588	2,635	4.98	0.35	2.55	2,868
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33	0.31	0.42	0.67	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	7.91	428	436	0.82	0.06	0.42	475

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	0.39	0.22	2.71	2.79	0.03	0.04	1.24	1.28	0.04	0.33	0.36	—	3,079	3,079	0.16	0.40	8.08	3,211
Area	1.60	1.57	0.02	2.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.00	9.00	< 0.005	< 0.005	—	9.03
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	228	228	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	2.53	2.28	4.10	6.23	0.03	0.11	1.24	1.35	0.11	0.33	0.44	47.8	3,644	3,692	5.03	0.46	8.08	3,963
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.38	0.22	2.82	2.68	0.03	0.04	1.24	1.28	0.04	0.33	0.36	—	3,063	3,063	0.16	0.40	0.21	3,187
Area	1.21	1.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	228	228	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	2.13	1.92	4.19	3.93	0.03	0.11	1.24	1.35	0.11	0.33	0.44	47.8	3,619	3,667	5.03	0.46	0.21	3,931

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.28	0.16	2.09	1.98	0.02	0.03	0.90	0.93	0.03	0.24	0.26	—	2,243	2,243	0.12	0.29	2.55	2,336
Area	1.48	1.46	0.01	1.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.16	6.16	< 0.005	< 0.005	—	6.18
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	228	228	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Stationary	0.07	0.07	0.19	0.17	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.5	34.5	< 0.005	< 0.005	0.00	34.6
Total	1.83	1.68	2.29	3.65	0.02	0.04	0.90	0.94	0.04	0.24	0.28	47.8	2,588	2,635	4.98	0.35	2.55	2,868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.03	0.38	0.36	< 0.005	0.01	0.16	0.17	< 0.005	0.04	0.05	—	371	371	0.02	0.05	0.42	387
Area	0.27	0.27	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	37.8	37.8	< 0.005	< 0.005	—	38.0
Water	—	—	—	—	—	—	—	—	—	—	—	3.69	12.6	16.3	0.38	0.01	—	28.5
Waste	—	—	—	—	—	—	—	—	—	—	—	4.22	0.00	4.22	0.42	0.00	—	14.8
Stationary	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73
Total	0.33	0.31	0.42	0.67	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	7.91	428	436	0.82	0.06	0.42	475

3. Construction Emissions Details

3.1. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.26	1.90	17.8	16.1	0.03	0.73	—	0.73	0.67	—	0.67	—	3,704	3,704	0.15	0.03	—	3,717
Demolition	—	—	—	—	—	—	2.01	2.01	—	0.30	0.30	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.98	0.88	< 0.005	0.04	—	0.04	0.04	—	0.04	—	203	203	0.01	< 0.005	—	204
Demolition	—	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33.6	33.6	< 0.005	< 0.005	—	33.7
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	0.01	128
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.9	31.9	< 0.005	< 0.005	< 0.005	33.3
Hauling	0.25	0.05	3.25	1.40	0.02	0.03	0.67	0.70	0.03	0.19	0.22	—	2,581	2,581	0.21	0.42	0.14	2,711
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.02	7.02	< 0.005	< 0.005	0.01	7.11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.75	1.75	< 0.005	< 0.005	< 0.005	1.82
Hauling	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	141	141	0.01	0.02	0.13	149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.18
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.29	0.29	< 0.005	< 0.005	< 0.005	0.30
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.4	23.4	< 0.005	< 0.005	0.02	24.6

3.3. 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	2.26	1.90	17.8	16.1	0.03	0.73	—	0.73	0.67	—	0.67	—	3,704	3,704	0.15	0.03	—	3,717
Dust From Material Movement	—	—	—	—	—	—	1.98	1.98	—	0.91	0.91	—	—	—	—	—	—	—

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	0.02	0.02	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.4	30.4	< 0.005	< 0.005	—	30.5
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.04	5.04	< 0.005	< 0.005	—	5.06
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	0.01	128
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.9	31.9	< 0.005	< 0.005	< 0.005	33.3
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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.05
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.81	16.4	15.5	0.03	0.67	—	0.67	0.62	—	0.62	—	3,705	3,705	0.15	0.03	—	3,717
Dust From Material Movement	—	—	—	—	—	—	1.98	1.98	—	0.91	0.91	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.35	0.30	2.70	2.55	0.01	0.11	—	0.11	0.10	—	0.10	—	609	609	0.02	< 0.005	—	611
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.49	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	101	101	< 0.005	< 0.005	—	101
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	124	124	< 0.005	< 0.005	0.01	125
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.8	62.8	< 0.005	0.01	< 0.005	65.5
Hauling	0.03	< 0.005	0.34	0.15	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	274	274	0.02	0.04	0.01	288
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.7	20.7	< 0.005	< 0.005	0.03	20.9
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	0.01	10.8
Hauling	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	45.1	45.1	< 0.005	0.01	0.04	47.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.42	3.42	< 0.005	< 0.005	0.01	3.46
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.71	1.71	< 0.005	< 0.005	< 0.005	1.78
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.46	7.46	< 0.005	< 0.005	0.01	7.83

3.7. Building Construction (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	0.65	0.54	5.16	6.02	0.01	0.21	—	0.21	0.19	—	0.19	—	1,433	1,433	0.06	0.01	—	1,438
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	0.65	0.54	5.16	6.02	0.01	0.21	—	0.21	0.19	—	0.19	—	1,433	1,433	0.06	0.01	—	1,438
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	0.33	0.27	2.60	3.03	0.01	0.11	—	0.11	0.10	—	0.10	—	722	722	0.03	0.01	—	725
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	120	120	< 0.005	< 0.005	—	120
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.11	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	273	273	< 0.005	0.01	0.95	277
Vendor	0.01	< 0.005	0.19	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	188	188	0.01	0.03	0.49	197
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.95	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	260	260	< 0.005	0.01	0.02	263
Vendor	0.01	< 0.005	0.20	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	188	188	0.01	0.03	0.01	196
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	0.04	0.50	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	133	133	< 0.005	0.01	0.21	135
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.9	94.9	< 0.005	0.01	0.11	99.1
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	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.0	22.0	< 0.005	< 0.005	0.03	22.3
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.02	16.4
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

3.9. Paving (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.54	5.01	7.20	0.01	0.21	—	0.21	0.19	—	0.19	—	1,102	1,102	0.04	0.01	—	1,106
Paving	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.21	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.3	45.3	< 0.005	< 0.005	—	45.4
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.50	7.50	< 0.005	< 0.005	—	7.52
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.05	0.59	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.02	163
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.4	31.4	< 0.005	< 0.005	< 0.005	32.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.71	6.71	< 0.005	< 0.005	0.01	6.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.29	1.29	< 0.005	< 0.005	< 0.005	1.35
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.11	1.11	< 0.005	< 0.005	< 0.005	1.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
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. Architectural Coating (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.19	0.16	1.14	1.51	< 0.005	0.03	—	0.03	0.03	—	0.03	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	16.1	16.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	0.66	0.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.12	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.6	49.6	< 0.005	< 0.005	< 0.005	50.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.07	2.07	< 0.005	< 0.005	< 0.005	2.09
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.18	0.16	0.08	1.51	< 0.005	< 0.005	0.38	0.38	< 0.005	0.10	0.10	—	364	364	0.01	0.01	1.06	368

User Defined Industrial	0.21	0.06	2.63	1.28	0.02	0.04	0.86	0.90	0.04	0.23	0.27	—	2,716	2,716	0.15	0.39	7.02	2,843
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.39	0.22	2.71	2.79	0.03	0.04	1.24	1.28	0.04	0.33	0.36	—	3,079	3,079	0.16	0.40	8.08	3,211
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.18	0.16	0.09	1.40	< 0.005	< 0.005	0.38	0.38	< 0.005	0.10	0.10	—	347	347	0.01	0.01	0.03	350
User Defined Industrial	0.21	0.05	2.73	1.28	0.02	0.04	0.86	0.90	0.04	0.23	0.27	—	2,716	2,716	0.15	0.39	0.18	2,837
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.38	0.22	2.82	2.68	0.03	0.04	1.24	1.28	0.04	0.33	0.36	—	3,063	3,063	0.16	0.40	0.21	3,187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.02	0.01	0.19	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	42.5	42.5	< 0.005	< 0.005	0.06	43.0
User Defined Industrial	0.03	0.01	0.37	0.17	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.04	—	329	329	0.02	0.05	0.37	344
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.05	0.03	0.38	0.36	< 0.005	0.01	0.16	0.17	< 0.005	0.04	0.05	—	371	371	0.02	0.05	0.42	387

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	223	223	0.02	< 0.005	—	225
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.07	5.07	< 0.005	< 0.005	—	5.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	228	228	0.02	< 0.005	—	230
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	223	223	0.02	< 0.005	—	225

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.07	5.07	< 0.005	< 0.005	—	5.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	228	228	0.02	< 0.005	—	230
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	37.0	37.0	< 0.005	< 0.005	—	37.2
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.84	0.84	< 0.005	< 0.005	—	0.84
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	37.8	37.8	< 0.005	< 0.005	—	38.0

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.39	0.36	0.02	2.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.00	9.00	< 0.005	< 0.005	—	9.03
Total	1.60	1.57	0.02	2.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.00	9.00	< 0.005	< 0.005	—	9.03
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.21	1.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.05	0.04	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Total	0.27	0.27	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.69	12.6	16.3	0.38	0.01	—	28.5
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.69	12.6	16.3	0.38	0.01	—	28.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.22	0.00	4.22	0.42	0.00	—	14.8
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.22	0.00	4.22	0.42	0.00	—	14.8

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73
Total	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	12/1/2025	12/28/2025	5.00	20.0	—
Site Preparation	Site Preparation	12/29/2025	12/31/2025	5.00	3.00	—
Grading	Grading	1/1/2026	3/25/2026	5.00	60.0	—
Building Construction	Building Construction	3/26/2026	12/8/2026	5.00	184	—
Paving	Paving	12/9/2026	12/29/2026	5.00	15.0	—
Architectural Coating	Architectural Coating	12/9/2026	12/29/2026	5.00	15.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Demolition	Scrapers	Diesel	Average	1.00	8.00	423	0.48

Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Site Preparation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Site Preparation	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
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	10.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	1.00	10.2	HHDT,MHDT

Demolition	Hauling	37.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	10.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	1.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	2.00	10.2	HHDT,MHDT
Grading	Hauling	4.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	21.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	6.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	13.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	1.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.00	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	75,450	25,150	1,882

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,970	—
Site Preparation	—	—	4.50	0.00	—
Grading	—	2,100	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.72

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%

User Defined Industrial	0.00	0%
Parking Lot	0.14	100%
Other Asphalt Surfaces	0.58	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	56.0	4.74	1.90	14,946	543	45.9	18.4	144,868
User Defined Industrial	32.0	2.71	1.08	8,541	975	82.5	33.0	260,231
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	75,450	25,150	1,882

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	235,422	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	5,342	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	11,631,875	155,654
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	47.3	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times 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
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	8.25	annual days of extreme heat
Extreme Precipitation	3.60	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.78	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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 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	37.6
AQ-PM	69.6
AQ-DPM	62.6
Drinking Water	66.0
Lead Risk Housing	49.2
Pesticides	14.9
Toxic Releases	99.3
Traffic	74.3
Effect Indicators	—

CleanUp Sites	91.7
Groundwater	89.6
Haz Waste Facilities/Generators	97.2
Impaired Water Bodies	0.00
Solid Waste	94.2
Sensitive Population	—
Asthma	60.1
Cardio-vascular	65.6
Low Birth Weights	99.4
Socioeconomic Factor Indicators	—
Education	66.6
Housing	54.1
Linguistic	—
Poverty	54.2
Unemployment	22.6

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	50.3143847
Employed	70.02438085
Median HI	54.76709868
Education	—
Bachelor's or higher	42.51251123
High school enrollment	100
Preschool enrollment	21.10868728
Transportation	—

Auto Access	77.83908636
Active commuting	46.19530348
Social	—
2-parent households	98.48582061
Voting	15.79622738
Neighborhood	—
Alcohol availability	15.24445015
Park access	34.1973566
Retail density	91.50519697
Supermarket access	84.92236623
Tree canopy	26.21583472
Housing	—
Homeownership	67.1885025
Housing habitability	64.84024124
Low-inc homeowner severe housing cost burden	45.7590145
Low-inc renter severe housing cost burden	53.67637624
Uncrowded housing	40.20274605
Health Outcomes	—
Insured adults	35.27524702
Arthritis	0.0
Asthma ER Admissions	55.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	28.0

Cognitively Disabled	26.7
Physically Disabled	88.8
Heart Attack ER Admissions	66.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.4
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	8.5
Elderly	64.7
English Speaking	23.4
Foreign-born	63.4
Outdoor Workers	87.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	14.3
Traffic Density	67.4
Traffic Access	74.4
Other Indices	—
Hardship	52.9
Other Decision Support	—

2016 Voting	50.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	89.0
Healthy Places Index Score for Project Location (b)	54.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 2.15 acres
Construction: Architectural Coatings	Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Construction: Construction Phases	Construction schedule based on information provided by the Applicant

Construction: Off-Road Equipment	Construction equipment based on consultation with the Team
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, Building Construction, and Paving
Operations: Energy Use	No natural gas will be used

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APPENDIX 4.2:

CALEEMOD EMISSIONS MODEL OUTPUTS – OPERATIONAL LOCALIZED SOURCE EMISSIONS

Lincoln Way (Localized Operations) 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	Lincoln Way (Localized Operations)
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	6.20
Location	7441 Lincoln Way, Garden Grove, CA 92841, USA
County	Orange
City	Garden Grove
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5869
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	50.3	1000sqft	1.43	50,300	12,010	—	—	—

User Defined Industrial	50.3	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	36.0	Space	0.14	0.00	0.00	—	—	—
Other Asphalt Surfaces	25.3	1000sqft	0.58	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.	2.30	2.20	1.73	4.00	< 0.005	0.08	0.01	0.08	0.08	< 0.005	0.08	47.8	620	668	4.90	0.07	0.03	811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.91	1.84	1.73	1.87	< 0.005	0.07	0.01	0.08	0.07	< 0.005	0.07	47.8	612	659	4.90	0.07	< 0.005	803
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.67	1.63	0.45	2.11	< 0.005	0.01	< 0.005	0.02	0.01	< 0.005	0.01	47.8	385	433	4.88	0.07	0.01	575
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.30	0.30	0.08	0.39	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.91	63.8	71.7	0.81	0.01	< 0.005	95.2

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	0.16	0.14	0.33	0.55	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	55.1	55.1	0.02	0.01	0.03	59.0
Area	1.60	1.57	0.02	2.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.00	9.00	< 0.005	< 0.005	—	9.03
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	228	228	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	2.30	2.20	1.73	4.00	< 0.005	0.08	0.01	0.08	0.08	< 0.005	0.08	47.8	620	668	4.90	0.07	0.03	811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	0.14	0.35	0.61	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	55.6	55.6	0.02	0.01	< 0.005	59.5
Area	1.21	1.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	228	228	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Stationary	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	1.91	1.84	1.73	1.87	< 0.005	0.07	0.01	0.08	0.07	< 0.005	0.07	47.8	612	659	4.90	0.07	< 0.005	803
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12	0.10	0.25	0.44	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	40.5	40.5	0.02	0.01	0.01	43.3
Area	1.48	1.46	0.01	1.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.16	6.16	< 0.005	< 0.005	—	6.18
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	228	228	0.02	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Waste	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2

Stationary	0.07	0.07	0.19	0.17	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.5	34.5	< 0.005	< 0.005	0.00	34.6
Total	1.67	1.63	0.45	2.11	< 0.005	0.01	< 0.005	0.02	0.01	< 0.005	0.01	47.8	385	433	4.88	0.07	0.01	575
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.02	0.02	0.05	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.70	6.70	< 0.005	< 0.005	< 0.005	7.17
Area	0.27	0.27	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	37.8	37.8	< 0.005	< 0.005	—	38.0
Water	—	—	—	—	—	—	—	—	—	—	—	3.69	12.6	16.3	0.38	0.01	—	28.5
Waste	—	—	—	—	—	—	—	—	—	—	—	4.22	0.00	4.22	0.42	0.00	—	14.8
Stationary	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73
Total	0.30	0.30	0.08	0.39	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.91	63.8	71.7	0.81	0.01	< 0.005	95.2

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.13	0.13	0.03	0.30	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.4	12.4	0.01	< 0.005	0.01	13.6
User Defined Industrial	0.04	0.02	0.31	0.26	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	42.8	42.8	0.02	0.01	0.02	45.4

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	0.14	0.33	0.55	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	55.1	55.1	0.02	0.01	0.03	59.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.13	0.13	0.03	0.35	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.3	12.3	0.01	< 0.005	< 0.005	13.6
User Defined Industrial	0.03	0.02	0.32	0.26	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	43.3	43.3	0.02	0.01	< 0.005	45.9
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	0.14	0.35	0.61	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	55.6	55.6	0.02	0.01	< 0.005	59.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.02	0.02	< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.65
User Defined Industrial	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.20	5.20	< 0.005	< 0.005	< 0.005	5.52
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.02	0.02	0.05	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.70	6.70	< 0.005	< 0.005	< 0.005	7.17

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	223	223	0.02	< 0.005	—	225
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.07	5.07	< 0.005	< 0.005	—	5.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	228	228	0.02	< 0.005	—	230
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	223	223	0.02	< 0.005	—	225
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.07	5.07	< 0.005	< 0.005	—	5.10
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	228	228	0.02	< 0.005	—	230
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	37.0	37.0	< 0.005	< 0.005	—	37.2
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.84	0.84	< 0.005	< 0.005	—	0.84
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	37.8	37.8	< 0.005	< 0.005	—	38.0

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	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	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.39	0.36	0.02	2.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.00	9.00	< 0.005	< 0.005	—	9.03
Total	1.60	1.57	0.02	2.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.00	9.00	< 0.005	< 0.005	—	9.03
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.21	1.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.05	0.04	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02
Total	0.27	0.27	< 0.005	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.02	1.02	< 0.005	< 0.005	—	1.02

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22.3	75.9	98.2	2.29	0.06	—	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.69	12.6	16.3	0.38	0.01	—	28.5
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.69	12.6	16.3	0.38	0.01	—	28.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	25.5	0.00	25.5	2.55	0.00	—	89.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.22	0.00	4.22	0.42	0.00	—	14.8
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.22	0.00	4.22	0.42	0.00	—	14.8

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Total	0.54	0.49	1.38	1.26	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	252	252	0.01	< 0.005	0.00	253
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73
Total	0.01	0.01	0.03	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	5.71	5.71	< 0.005	< 0.005	0.00	5.73

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	56.0	4.74	1.90	14,946	5.60	0.47	0.19	1,495
User Defined Industrial	32.0	2.71	1.08	8,541	3.20	0.27	0.11	854
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	75,450	25,150	1,882

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	235,422	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Parking Lot	5,342	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	11,631,875	155,654
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	47.3	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times 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
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	8.25	annual days of extreme heat
Extreme Precipitation	3.60	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.78	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	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	N/A	N/A	N/A	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 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	37.6
AQ-PM	69.6
AQ-DPM	62.6
Drinking Water	66.0
Lead Risk Housing	49.2
Pesticides	14.9
Toxic Releases	99.3
Traffic	74.3
Effect Indicators	—

CleanUp Sites	91.7
Groundwater	89.6
Haz Waste Facilities/Generators	97.2
Impaired Water Bodies	0.00
Solid Waste	94.2
Sensitive Population	—
Asthma	60.1
Cardio-vascular	65.6
Low Birth Weights	99.4
Socioeconomic Factor Indicators	—
Education	66.6
Housing	54.1
Linguistic	—
Poverty	54.2
Unemployment	22.6

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	50.3143847
Employed	70.02438085
Median HI	54.76709868
Education	—
Bachelor's or higher	42.51251123
High school enrollment	100
Preschool enrollment	21.10868728
Transportation	—

Auto Access	77.83908636
Active commuting	46.19530348
Social	—
2-parent households	98.48582061
Voting	15.79622738
Neighborhood	—
Alcohol availability	15.24445015
Park access	34.1973566
Retail density	91.50519697
Supermarket access	84.92236623
Tree canopy	26.21583472
Housing	—
Homeownership	67.1885025
Housing habitability	64.84024124
Low-inc homeowner severe housing cost burden	45.7590145
Low-inc renter severe housing cost burden	53.67637624
Uncrowded housing	40.20274605
Health Outcomes	—
Insured adults	35.27524702
Arthritis	0.0
Asthma ER Admissions	55.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	28.0

Cognitively Disabled	26.7
Physically Disabled	88.8
Heart Attack ER Admissions	66.1
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.4
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	8.5
Elderly	64.7
English Speaking	23.4
Foreign-born	63.4
Outdoor Workers	87.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	14.3
Traffic Density	67.4
Traffic Access	74.4
Other Indices	—
Hardship	52.9
Other Decision Support	—

2016 Voting	50.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	89.0
Healthy Places Index Score for Project Location (b)	54.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 2.15 acres
Construction: Architectural Coatings	Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Traffic analysis
Operations: Fleet Mix	Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis
Construction: Construction Phases	Construction schedule based on information provided by the Applicant

Construction: Off-Road Equipment	Construction equipment based on consultation with the Team
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, Building Construction, and Paving
Operations: Energy Use	No natural gas will be used

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APPENDIX 4.3:

AERMOD OUTPUTS

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 1/22/2025
** File: C:\Users\atamase\Desktop\HRAs\16113\Mitigated\16113-02 Const\16113-02 Const.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 3010232 Orange_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "16113-02 Const.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0000641159
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 40
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   SRCPARAM L0000339     0.0000001875      3.49      6.51      3.25
   SRCPARAM L0000340     0.0000001875      3.49      6.51      3.25
   SRCPARAM L0000341     0.0000001875      3.49      6.51      3.25
   SRCPARAM L0000342     0.0000001875      3.49      6.51      3.25
** ------------------------------------------------------------------------
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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:
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793      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
794      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
795      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
796      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
797   ** WeekDays:
798      EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
799      EMISFACT L0000001     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
800      EMISFACT L0000001     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
801      EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
802      EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
803      EMISFACT L0000002     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
804      EMISFACT L0000002     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
805      EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
806      EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
807      EMISFACT L0000003     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
808      EMISFACT L0000003     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
809      EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
810      EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
811      EMISFACT L0000004     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
812      EMISFACT L0000004     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
813      EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
814      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
815      EMISFACT L0000005     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
816      EMISFACT L0000005     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
817      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
818      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
819      EMISFACT L0000006     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
820      EMISFACT L0000006     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
821      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
822      EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
823      EMISFACT L0000007     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
824      EMISFACT L0000007     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
825      EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
826      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
827      EMISFACT L0000008     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
828      EMISFACT L0000008     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
829      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
830      EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
831      EMISFACT L0000009     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
832      EMISFACT L0000009     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
833      EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
834      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
835      EMISFACT L0000010     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
836      EMISFACT L0000010     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
837      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
838      EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
839      EMISFACT L0000011     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
840      EMISFACT L0000011     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
841      EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
842      EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
843      EMISFACT L0000012     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
844      EMISFACT L0000012     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
845      EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
846      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
847      EMISFACT L0000013     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
848      EMISFACT L0000013     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
849      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
850      EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
851      EMISFACT L0000014     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
852      EMISFACT L0000014     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
853      EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
854      EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
855      EMISFACT L0000015     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
856      EMISFACT L0000015     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
857      EMISFACT L0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
858      EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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859      EMISFACT L0000016     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
860      EMISFACT L0000016     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
861      EMISFACT L0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
862      EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
863      EMISFACT L0000017     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
864      EMISFACT L0000017     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
865      EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
866      EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
867      EMISFACT L0000018     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
868      EMISFACT L0000018     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
869      EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
870      EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
871      EMISFACT L0000019     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
872      EMISFACT L0000019     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
873      EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
874      EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
875      EMISFACT L0000020     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
876      EMISFACT L0000020     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
877      EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
878      EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
879      EMISFACT L0000021     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
880      EMISFACT L0000021     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
881      EMISFACT L0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
882      EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
883      EMISFACT L0000022     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
884      EMISFACT L0000022     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
885      EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
886      EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
887      EMISFACT L0000023     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
888      EMISFACT L0000023     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
889      EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
890      EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
891      EMISFACT L0000024     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
892      EMISFACT L0000024     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
893      EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
894      EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
895      EMISFACT L0000025     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
896      EMISFACT L0000025     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
897      EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
898      EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
899      EMISFACT L0000026     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
900      EMISFACT L0000026     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
901      EMISFACT L0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
902      EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
903      EMISFACT L0000027     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
904      EMISFACT L0000027     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
905      EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
906      EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
907      EMISFACT L0000028     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
908      EMISFACT L0000028     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
909      EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
910      EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
911      EMISFACT L0000029     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
912      EMISFACT L0000029     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
913      EMISFACT L0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
914      EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
915      EMISFACT L0000030     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
916      EMISFACT L0000030     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
917      EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
918      EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
919      EMISFACT L0000031     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
920      EMISFACT L0000031     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
921      EMISFACT L0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
922      EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
923      EMISFACT L0000032     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
924      EMISFACT L0000032     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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925      EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
926      EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
927      EMISFACT L0000033     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
928      EMISFACT L0000033     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
929      EMISFACT L0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
930      EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
931      EMISFACT L0000034     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
932      EMISFACT L0000034     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
933      EMISFACT L0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
934      EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
935      EMISFACT L0000035     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
936      EMISFACT L0000035     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
937      EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
938      EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
939      EMISFACT L0000036     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
940      EMISFACT L0000036     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
941      EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
942      EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
943      EMISFACT L0000037     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
944      EMISFACT L0000037     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
945      EMISFACT L0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
946      EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
947      EMISFACT L0000038     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
948      EMISFACT L0000038     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
949      EMISFACT L0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
950      EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
951      EMISFACT L0000039     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
952      EMISFACT L0000039     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
953      EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
954      EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
955      EMISFACT L0000040     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
956      EMISFACT L0000040     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
957      EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
958      EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
959      EMISFACT L0000041     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
960      EMISFACT L0000041     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
961      EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
962      EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
963      EMISFACT L0000042     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
964      EMISFACT L0000042     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
965      EMISFACT L0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
966      EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
967      EMISFACT L0000043     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
968      EMISFACT L0000043     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
969      EMISFACT L0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
970      EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
971      EMISFACT L0000044     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
972      EMISFACT L0000044     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
973      EMISFACT L0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
974      EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
975      EMISFACT L0000045     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
976      EMISFACT L0000045     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
977      EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
978      EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
979      EMISFACT L0000046     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
980      EMISFACT L0000046     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
981      EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
982      EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
983      EMISFACT L0000047     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
984      EMISFACT L0000047     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
985      EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
986      EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
987      EMISFACT L0000048     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
988      EMISFACT L0000048     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
989      EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
990      EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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 991      EMISFACT L0000049     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
 992      EMISFACT L0000049     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
 993      EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
 994      EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
 995      EMISFACT L0000050     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
 996      EMISFACT L0000050     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
 997      EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
 998      EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
 999      EMISFACT L0000051     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
1000      EMISFACT L0000051     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
1001      EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1002      EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1003      EMISFACT L0000052     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
1004      EMISFACT L0000052     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
1005      EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1006      EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1007      EMISFACT L0000053     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
1008      EMISFACT L0000053     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
1009      EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1010      EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1011      EMISFACT L0000054     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
1012      EMISFACT L0000054     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
1013      EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1014      EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1015      EMISFACT L0000055     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
1016      EMISFACT L0000055     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
1017      EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1018      EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1019      EMISFACT L0000056     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
1020      EMISFACT L0000056     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
1021      EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
1022      EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1056      EMISFACT L0000065     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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1122      EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT L0000098     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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1914      EMISFACT L0000280     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1994      EMISFACT L0000300     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2014      EMISFACT L0000305     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2017      EMISFACT L0000305     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2046      EMISFACT L0000313     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2111      EMISFACT L0000329     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
2112      EMISFACT L0000329     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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** Saturday:
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     EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2183      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2184      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2185      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2186      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2187      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2188      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2189      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2190      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2197      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2201      EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2204      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2205      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2206      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2207      EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2208      EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2213      EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2214      EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2215      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2216      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2217      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2218      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2219      EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2235      EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2236      EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2244      EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2254      EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2256      EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2258      EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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3444      EMISFACT L0000320     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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3535   ** Sunday:
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4905   SO FINISHED
4906   **
4907   ****************************************
4908   ** AERMOD Receptor Pathway
4909   ****************************************
4910   **
4911   **
4912   RE STARTING
4913      INCLUDED "16113-02 Const.rou"
4914   RE FINISHED
4915   **
4916   ****************************************
4917   ** AERMOD Meteorology Pathway
4918   ****************************************
4919   **
4920   **
4921   ME STARTING
4922      SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
4923      PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
4924      SURFDATA 3166 2012
4925      UAIRDATA 3190 2012
4926      PROFBASE 29.0 METERS
4927   ME FINISHED
4928   **
4929   ****************************************
4930   ** AERMOD Output Pathway
4931   ****************************************
4932   **
4933   **
4934   OU STARTING
4935   ** Auto-Generated Plotfiles
4936      PLOTFILE PERIOD ALL "16113-02 CONST.AD\PE00GALL.PLT" 31
4937      SUMMFILE "16113-02 Const.sum"
4938   OU FINISHED
4939   **
4940   ****************************************
4941   ** Project Parameters
4942   ****************************************
4943   ** PROJCTN  CoordinateSystemUTM
4944   ** DESCPTN  UTM: Universal Transverse Mercator
4945   ** DATUM    North American Datum 1983
4946   ** DTMRGN   CONUS
4947   ** UNITS    m
4948   ** ZONE     11
4949   ** ZONEINX  0
4950   **
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** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 1/22/2025
** File: C:\Users\atamase\Desktop\HRAs\16113\Mitigated\16113-02 Const\16113-02 Const.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 3010232 Orange_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "16113-02 Const.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** ------------------------------------------------------------------------
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** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0000641159
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 40
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    SRCPARAM L0000139     0.0000001875      3.49      6.51      3.25
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    SRCPARAM L0000145     0.0000001875      3.49      6.51      3.25
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    SRCPARAM L0000160     0.0000001875      3.49      6.51      3.25
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705     SRCPARAM L0000271     0.0000001875      3.49      6.51      3.25
706     SRCPARAM L0000272     0.0000001875      3.49      6.51      3.25
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726     SRCPARAM L0000292     0.0000001875      3.49      6.51      3.25
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   SRCPARAM L0000342     0.0000001875      3.49      6.51      3.25
** ------------------------------------------------------------------------
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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:
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793      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
794      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
795      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
796      EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
797   ** WeekDays:
798      EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
799      EMISFACT L0000001     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
800      EMISFACT L0000001     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
801      EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
802      EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
803      EMISFACT L0000002     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
804      EMISFACT L0000002     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
805      EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
806      EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
807      EMISFACT L0000003     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
808      EMISFACT L0000003     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
809      EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
810      EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
811      EMISFACT L0000004     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
812      EMISFACT L0000004     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
813      EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
814      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
815      EMISFACT L0000005     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
816      EMISFACT L0000005     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
817      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
818      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
819      EMISFACT L0000006     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
820      EMISFACT L0000006     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
821      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
822      EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
823      EMISFACT L0000007     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
824      EMISFACT L0000007     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
825      EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
826      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
827      EMISFACT L0000008     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
828      EMISFACT L0000008     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
829      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
830      EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
831      EMISFACT L0000009     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
832      EMISFACT L0000009     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
833      EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
834      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
835      EMISFACT L0000010     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
836      EMISFACT L0000010     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
837      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
838      EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1081      EMISFACT L0000071     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1098      EMISFACT L0000076     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1104      EMISFACT L0000077     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
1105      EMISFACT L0000077     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1122      EMISFACT L0000082     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1254      EMISFACT L0000115     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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1320      EMISFACT L0000131     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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1848      EMISFACT L0000263     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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2043      EMISFACT L0000312     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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2045      EMISFACT L0000312     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2046      EMISFACT L0000313     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2048      EMISFACT L0000313     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
2049      EMISFACT L0000313     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2053      EMISFACT L0000314     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2054      EMISFACT L0000315     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2058      EMISFACT L0000316     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2066      EMISFACT L0000318     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2108      EMISFACT L0000328     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
2109      EMISFACT L0000328     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2111      EMISFACT L0000329     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
2112      EMISFACT L0000329     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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     EMISFACT L0000332     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
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     EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2182      EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2183      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2184      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2185      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2186      EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2187      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2188      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2189      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2190      EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2191      EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2192      EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2194      EMISFACT L0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2196      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2197      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2198      EMISFACT L0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2201      EMISFACT L0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2203      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2204      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2205      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2206      EMISFACT L0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2208      EMISFACT L0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2212      EMISFACT L0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2215      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2216      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2217      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2218      EMISFACT L0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2219      EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2220      EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2222      EMISFACT L0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2231      EMISFACT L0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2238      EMISFACT L0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2242      EMISFACT L0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2243      EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2244      EMISFACT L0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2253      EMISFACT L0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2258      EMISFACT L0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2259      EMISFACT L0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2265      EMISFACT L0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2271      EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2272      EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2273      EMISFACT L0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2277      EMISFACT L0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2285      EMISFACT L0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2292      EMISFACT L0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2303      EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2304      EMISFACT L0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2309      EMISFACT L0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2322      EMISFACT L0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2323      EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
2324      EMISFACT L0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2327      EMISFACT L0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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2772      EMISFACT L0000152     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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3486      EMISFACT L0000330     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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3498      EMISFACT L0000333     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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3534      EMISFACT L0000342     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
3535   ** Sunday:
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3539      EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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4686      EMISFACT L0000288     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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SO FINISHED
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** AERMOD Receptor Pathway
**********************************
**
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RE STARTING
   INCLUDED "16113-02 Const.rou"
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
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   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
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** AERMOD Output Pathway
**********************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "16113-02 CONST.AD\PE00GALL.PLT" 31
   SUMMFILE "16113-02 Const.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    4927       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
 used           0.50
 ME W187    4927       MEOPEN: ADJ_U* Option for Stable Low Winds used in
 AERMET

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

FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***
 12:35:34

                             PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   343 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: DPM

 **Model Calculates PERIOD Averages Only

 **This Run Includes:    343 Source(s);       1 Source Group(s); and     177 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    343 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216
```

**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 29.00 ; 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 = 3.9 MB of RAM.

**Input Runstream File:
aermod.inp

**Output Print File:
aermod.out

**Detailed Error/Message File: 16113-02 Const.err
**File for Summary of Results: 16113-02 Const.sum
FE *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
*** AERMET - VERSION 16216 ***
*** ***
12:35:34

PAGE 2
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE INIT. PART. CATS.	EMISSION RATE (GRAMS/SEC)	URBAN SOURCE	INIT. SCALAR VARY BY	AIRCRAFT	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	SZ (METERS)
VOL1	0	0.78811E-03				407216.8	3740298.7	18.4	5.00	21.79	1.40
L0000001	0	0.18750E-06				407278.0	3740258.8	18.9	3.49	6.51	3.25
L0000002	0	0.18750E-06				407278.1	3740272.8	18.7	3.49	6.51	3.25
L0000003	0	0.18750E-06				407278.2	3740286.8	18.6	3.49	6.51	3.25
L0000004	0	0.18750E-06				407278.4	3740300.8	18.4	3.49	6.51	3.25
L0000005	0	0.18750E-06				407278.4	3740314.8	18.3	3.49	6.51	3.25
L0000006	0	0.18750E-06				407278.4	3740328.8	18.1	3.49	6.51	3.25
L0000007	0	0.18750E-06				407278.4	3740342.8	18.0	3.49	6.51	

SOURCE ID	SOURCE SCALAR VARY BY
VOL1	YES HRDOW
L0000001	YES HRDOW
L0000002	YES HRDOW
L0000003	YES HRDOW
L0000004	YES HRDOW
L0000005	YES HRDOW
L0000006	YES HRDOW
L0000007	NO

```
        3.25     YES   HRDOW             NO
5052    L0000008          0   0.18750E-06  407278.2 3740356.8    18.0     3.49     6.51
        3.25     YES   HRDOW             NO
5053    L0000009          0   0.18750E-06  407278.0 3740370.8    18.0     3.49     6.51
        3.25     YES   HRDOW             NO
5054    L0000010          0   0.18750E-06  407277.7 3740384.8    18.0     3.49     6.51
        3.25     YES   HRDOW             NO
5055    L0000011          0   0.18750E-06  407277.4 3740398.8    18.0     3.49     6.51
        3.25     YES   HRDOW             NO
5056    L0000012          0   0.18750E-06  407277.7 3740412.7    18.0     3.49     6.51
        3.25     YES   HRDOW             NO
5057    L0000013          0   0.18750E-06  407278.1 3740426.7    18.0     3.49     6.51
        3.25     YES   HRDOW             NO
5058    L0000014          0   0.18750E-06  407278.6 3740440.7    17.9     3.49     6.51
        3.25     YES   HRDOW             NO
5059    L0000015          0   0.18750E-06  407279.0 3740454.7    17.8     3.49     6.51
        3.25     YES   HRDOW             NO
5060    L0000016          0   0.18750E-06  407278.8 3740468.7    17.6     3.49     6.51
        3.25     YES   HRDOW             NO
5061    L0000017          0   0.18750E-06  407278.7 3740482.7    17.4     3.49     6.51
        3.25     YES   HRDOW             NO
5062    L0000018          0   0.18750E-06  407278.6 3740496.7    17.3     3.49     6.51
        3.25     YES   HRDOW             NO
5063    L0000019          0   0.18750E-06  407278.4 3740510.7    17.1     3.49     6.51
        3.25     YES   HRDOW             NO
5064    L0000020          0   0.18750E-06  407278.3 3740524.7    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5065    L0000021          0   0.18750E-06  407278.1 3740538.7    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5066    L0000022          0   0.18750E-06  407277.9 3740552.7    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5067    L0000023          0   0.18750E-06  407277.5 3740566.7    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5068    L0000024          0   0.18750E-06  407276.0 3740580.6    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5069    L0000025          0   0.18750E-06  407273.7 3740594.4    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5070    L0000026          0   0.18750E-06  407271.3 3740608.2    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5071    L0000027          0   0.18750E-06  407268.6 3740622.0    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5072    L0000028          0   0.18750E-06  407266.0 3740635.7    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5073    L0000029          0   0.18750E-06  407263.7 3740649.5    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5074    L0000030          0   0.18750E-06  407261.5 3740663.3    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5075    L0000031          0   0.18750E-06  407259.4 3740677.2    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5076    L0000032          0   0.18750E-06  407257.5 3740691.0    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5077    L0000033          0   0.18750E-06  407257.3 3740705.0    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5078    L0000034          0   0.18750E-06  407257.0 3740719.0    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5079    L0000035          0   0.18750E-06  407256.7 3740733.0    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5080    L0000036          0   0.18750E-06  407259.7 3740743.8    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5081    L0000037          0   0.18750E-06  407273.7 3740743.8    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5082    L0000038          0   0.18750E-06  407287.7 3740743.8    17.0     3.49     6.51
        3.25     YES   HRDOW             NO
5083    L0000039          0   0.18750E-06  407301.7 3740743.8    17.1     3.49     6.51
        3.25     YES   HRDOW             NO
5084    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER INIT. SOURCE CATS.	URBAN SOURCE	EMISSION RATE (GRAMS/SEC)	SCALAR VARY BY	X (METERS)	Y (METERS)	AIRCRAFT ELEV. (METERS)	BASE HEIGHT (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	SZ
L0000040	0		0.18750E-06		407315.7	3740743.8	17.2	3.49	6.51	3.25	YES
L0000041	0		0.18750E-06		407329.7	3740743.8	17.2	3.49	6.51	3.25	YES
L0000042	0		0.18750E-06		407343.7	3740743.8	17.3	3.49	6.51	3.25	YES
L0000043	0		0.18750E-06		407357.7	3740743.8	17.4	3.49	6.51	3.25	YES
L0000044	0		0.18750E-06		407371.7	3740743.8	17.5	3.49	6.51	3.25	YES
L0000045	0		0.18750E-06		407385.7	3740743.8	17.6	3.49	6.51	3.25	YES
L0000046	0		0.18750E-06		407399.7	3740743.8	17.7	3.49	6.51	3.25	YES
L0000047	0		0.18750E-06		407413.7	3740743.8	17.8	3.49	6.51	3.25	YES
L0000048	0		0.18750E-06		407427.7	3740743.8	17.9	3.49	6.51	3.25	YES
L0000049	0		0.18750E-06		407441.7	3740743.8	18.1	3.49	6.51	3.25	YES
L0000050	0		0.18750E-06		407455.7	3740743.8	18.2	3.49	6.51	3.25	YES
L0000051	0		0.18750E-06		407469.7	3740743.7	18.4	3.49	6.51	3.25	YES
L0000052	0		0.18750E-06		407483.7	3740743.7	18.6	3.49	6.51	3.25	YES
L0000053	0		0.18750E-06		407497.7	3740743.6	18.8	3.49	6.51	3.25	YES
L0000054	0		0.18750E-06		407511.7	3740743.6	19.0	3.49	6.51	3.25	YES
L0000055	0		0.18750E-06		407525.7	3740743.5	19.0	3.49	6.51	3.25	YES
L0000056	0		0.18750E-06		407539.7	3740743.5	19.0	3.49	6.51	3.25	YES
L0000057	0		0.18750E-06		407553.7	3740743.4	19.0	3.49	6.51	3.25	YES
L0000058	0		0.18750E-06		407567.7	3740743.4	19.0	3.49	6.51	3.25	YES
L0000059	0		0.18750E-06		407581.7	3740743.3	19.0	3.49	6.51	3.25	YES
L0000060	0		0.18750E-06		407595.7	3740743.3	19.1	3.49	6.51	3.25	YES
L0000061	0		0.18750E-06		407609.7	3740743.3	19.2	3.49	6.51	3.25	YES
L0000062	0		0.18750E-06		407623.7	3740743.4	19.4	3.49	6.51	3.25	YES

SOURCE ID	HRDOW
L0000040	HRDOW
L0000041	HRDOW
L0000042	HRDOW
L0000043	HRDOW
L0000044	HRDOW
L0000045	HRDOW
L0000046	HRDOW
L0000047	HRDOW
L0000048	HRDOW
L0000049	HRDOW
L0000050	HRDOW
L0000051	HRDOW
L0000052	HRDOW
L0000053	HRDOW
L0000054	HRDOW
L0000055	HRDOW
L0000056	HRDOW
L0000057	HRDOW
L0000058	HRDOW
L0000059	HRDOW
L0000060	HRDOW
L0000061	HRDOW
L0000062	HRDOW

SOURCE ID	NO
L0000040	NO
L0000041	NO
L0000042	NO
L0000043	NO
L0000044	NO
L0000045	NO
L0000046	NO
L0000047	NO
L0000048	NO
L0000049	NO
L0000050	NO
L0000051	NO
L0000052	NO
L0000053	NO
L0000054	NO
L0000055	NO
L0000056	NO
L0000057	NO
L0000058	NO
L0000059	NO
L0000060	NO
L0000061	NO
L0000062	NO

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5120    L0000063         0   0.18750E-06  407637.7 3740743.4    19.6     3.49     6.51
        3.25     YES   HRDOW            NO
5121    L0000064         0   0.18750E-06  407651.7 3740743.5    19.8     3.49     6.51
        3.25     YES   HRDOW            NO
5122    L0000065         0   0.18750E-06  407665.7 3740743.6    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5123    L0000066         0   0.18750E-06  407679.7 3740743.7    20.1     3.49     6.51
        3.25     YES   HRDOW            NO
5124    L0000067         0   0.18750E-06  407693.7 3740743.7    20.1     3.49     6.51
        3.25     YES   HRDOW            NO
5125    L0000068         0   0.18750E-06  407707.7 3740743.8    20.2     3.49     6.51
        3.25     YES   HRDOW            NO
5126    L0000069         0   0.18750E-06  407721.7 3740743.9    20.3     3.49     6.51
        3.25     YES   HRDOW            NO
5127    L0000070         0   0.18750E-06  407735.7 3740743.9    20.4     3.49     6.51
        3.25     YES   HRDOW            NO
5128    L0000071         0   0.18750E-06  407749.7 3740744.0    20.4     3.49     6.51
        3.25     YES   HRDOW            NO
5129    L0000072         0   0.18750E-06  407763.7 3740744.1    20.3     3.49     6.51
        3.25     YES   HRDOW            NO
5130    L0000073         0   0.18750E-06  407777.7 3740744.2    20.3     3.49     6.51
        3.25     YES   HRDOW            NO
5131    L0000074         0   0.18750E-06  407791.7 3740744.2    20.2     3.49     6.51
        3.25     YES   HRDOW            NO
5132    L0000075         0   0.18750E-06  407805.7 3740744.3    20.1     3.49     6.51
        3.25     YES   HRDOW            NO
5133    L0000076         0   0.18750E-06  407819.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5134    L0000077         0   0.18750E-06  407833.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5135    L0000078         0   0.18750E-06  407847.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5136    L0000079         0   0.18750E-06  407861.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5137    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
5138     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
5139
                                    PAGE   4
5140    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5141
5142
5143                                                  *** VOLUME SOURCE DATA ***
5144
5145                  NUMBER EMISSION RATE                       BASE    RELEASE    INIT.
                      INIT.   URBAN  EMISSION RATE   AIRCRAFT
5146      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
          SZ     SOURCE  SCALAR VARY
5147        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
            (METERS)              BY
5148    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - -
5149
5150    L0000080         0   0.18750E-06  407875.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5151    L0000081         0   0.18750E-06  407889.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5152    L0000082         0   0.18750E-06  407903.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5153    L0000083         0   0.18750E-06  407917.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5154    L0000084         0   0.18750E-06  407931.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5155    L0000085         0   0.18750E-06  407945.7 3740744.3    20.0     3.49     6.51
```

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        3.25     YES   HRDOW            NO
5156    L0000086          0   0.18750E-06  407959.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5157    L0000087          0   0.18750E-06  407973.7 3740744.3    20.0     3.49     6.51
        3.25     YES   HRDOW            NO
5158    L0000088          0   0.18750E-06  407987.7 3740744.3    19.9     3.49     6.51
        3.25     YES   HRDOW            NO
5159    L0000089          0   0.18750E-06  408001.7 3740744.3    19.7     3.49     6.51
        3.25     YES   HRDOW            NO
5160    L0000090          0   0.18750E-06  408015.7 3740744.3    19.5     3.49     6.51
        3.25     YES   HRDOW            NO
5161    L0000091          0   0.18750E-06  408029.7 3740744.3    19.3     3.49     6.51
        3.25     YES   HRDOW            NO
5162    L0000092          0   0.18750E-06  408043.7 3740744.3    19.1     3.49     6.51
        3.25     YES   HRDOW            NO
5163    L0000093          0   0.18750E-06  408057.7 3740744.3    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5164    L0000094          0   0.18750E-06  408070.5 3740743.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5165    L0000095          0   0.18750E-06  408070.4 3740729.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5166    L0000096          0   0.18750E-06  408070.3 3740715.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5167    L0000097          0   0.18750E-06  408070.3 3740701.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5168    L0000098          0   0.18750E-06  408070.2 3740687.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5169    L0000099          0   0.18750E-06  408070.1 3740673.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5170    L0000100          0   0.18750E-06  408070.0 3740659.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5171    L0000101          0   0.18750E-06  408069.8 3740645.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5172    L0000102          0   0.18750E-06  408069.6 3740631.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5173    L0000103          0   0.18750E-06  408069.4 3740617.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5174    L0000104          0   0.18750E-06  408069.2 3740603.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5175    L0000105          0   0.18750E-06  408069.0 3740589.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5176    L0000106          0   0.18750E-06  408068.7 3740575.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5177    L0000107          0   0.18750E-06  408068.5 3740561.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5178    L0000108          0   0.18750E-06  408068.5 3740547.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5179    L0000109          0   0.18750E-06  408068.8 3740533.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5180    L0000110          0   0.18750E-06  408069.1 3740519.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5181    L0000111          0   0.18750E-06  408069.4 3740505.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5182    L0000112          0   0.18750E-06  408069.7 3740491.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5183    L0000113          0   0.18750E-06  408070.0 3740477.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5184    L0000114          0   0.18750E-06  408070.3 3740463.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5185    L0000115          0   0.18750E-06  408070.6 3740449.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5186    L0000116          0   0.18750E-06  408070.9 3740435.1    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5187    L0000117          0   0.18750E-06  408071.2 3740421.2    19.0     3.49     6.51
        3.25     YES   HRDOW            NO
5188    L0000118          0   0.18750E-06  408071.5 3740407.2    19.0     3.49     6.51
```

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      3.25     YES   HRDOW            NO
5189  L0000119         0   0.18750E-06  408071.8 3740393.2    19.0     3.49     6.51
      3.25     YES   HRDOW            NO
5190  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
5191   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
5192
                                  PAGE   5
5193   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5194
5195
5196                                                  *** VOLUME SOURCE DATA ***
5197
5198                NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
                    INIT.   URBAN  EMISSION RATE   AIRCRAFT
5199      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
          SZ     SOURCE  SCALAR VARY
5200        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
            (METERS)             BY
5201   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - -
5202
5203   L0000120         0   0.18750E-06  408072.1 3740379.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5204   L0000121         0   0.18750E-06  408071.8 3740365.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5205   L0000122         0   0.18750E-06  408071.6 3740351.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5206   L0000123         0   0.18750E-06  408071.3 3740337.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5207   L0000124         0   0.18750E-06  408071.0 3740323.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5208   L0000125         0   0.18750E-06  408070.8 3740309.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5209   L0000126         0   0.18750E-06  408070.5 3740295.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5210   L0000127         0   0.18750E-06  408070.2 3740281.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5211   L0000128         0   0.18750E-06  408070.0 3740267.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5212   L0000129         0   0.18750E-06  408070.4 3740253.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5213   L0000130         0   0.18750E-06  408070.7 3740239.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5214   L0000131         0   0.18750E-06  408071.1 3740225.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5215   L0000132         0   0.18750E-06  408071.5 3740211.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5216   L0000133         0   0.18750E-06  408071.9 3740197.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5217   L0000134         0   0.18750E-06  408072.2 3740183.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5218   L0000135         0   0.18750E-06  408072.6 3740169.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5219   L0000136         0   0.18750E-06  408073.0 3740155.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5220   L0000137         0   0.18750E-06  408073.4 3740141.2    19.0     3.49     6.51
       3.25     YES   HRDOW            NO
5221   L0000138         0   0.18750E-06  408073.7 3740127.2    18.9     3.49     6.51
       3.25     YES   HRDOW            NO
5222   L0000139         0   0.18750E-06  408074.1 3740113.2    18.9     3.49     6.51
       3.25     YES   HRDOW            NO
5223   L0000140         0   0.18750E-06  408074.5 3740099.2    18.8     3.49     6.51
       3.25     YES   HRDOW            NO
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5224    L0000141         0   0.18750E-06  408074.9 3740085.2    18.8     3.49     6.51
        3.25     YES   HRDOW            NO
5225    L0000142         0   0.18750E-06  408075.3 3740071.3    18.7     3.49     6.51
        3.25     YES   HRDOW            NO
5226    L0000143         0   0.18750E-06  408075.1 3740057.3    18.7     3.49     6.51
        3.25     YES   HRDOW            NO
5227    L0000144         0   0.18750E-06  408074.8 3740043.3    18.6     3.49     6.51
        3.25     YES   HRDOW            NO
5228    L0000145         0   0.18750E-06  408074.5 3740029.3    18.5     3.49     6.51
        3.25     YES   HRDOW            NO
5229    L0000146         0   0.18750E-06  408074.2 3740015.3    18.4     3.49     6.51
        3.25     YES   HRDOW            NO
5230    L0000147         0   0.18750E-06  408073.9 3740001.3    18.3     3.49     6.51
        3.25     YES   HRDOW            NO
5231    L0000148         0   0.18750E-06  408073.6 3739987.3    18.2     3.49     6.51
        3.25     YES   HRDOW            NO
5232    L0000149         0   0.18750E-06  408073.3 3739973.3    18.1     3.49     6.51
        3.25     YES   HRDOW            NO
5233    L0000150         0   0.18750E-06  408073.0 3739959.3    18.0     3.49     6.51
        3.25     YES   HRDOW            NO
5234    L0000151         0   0.18750E-06  408072.7 3739945.3    17.8     3.49     6.51
        3.25     YES   HRDOW            NO
5235    L0000152         0   0.18750E-06  408072.4 3739931.3    17.7     3.49     6.51
        3.25     YES   HRDOW            NO
5236    L0000153         0   0.18750E-06  408072.1 3739917.3    17.5     3.49     6.51
        3.25     YES   HRDOW            NO
5237    L0000154         0   0.18750E-06  408071.8 3739903.3    17.4     3.49     6.51
        3.25     YES   HRDOW            NO
5238    L0000155         0   0.18750E-06  408071.8 3739889.3    17.2     3.49     6.51
        3.25     YES   HRDOW            NO
5239    L0000156         0   0.18750E-06  408072.9 3739875.3    17.1     3.49     6.51
        3.25     YES   HRDOW            NO
5240    L0000157         0   0.18750E-06  408072.9 3739861.4    17.0     3.49     6.51
        3.25     YES   HRDOW            NO
5241    L0000158         0   0.18750E-06  408072.5 3739847.4    17.0     3.49     6.51
        3.25     YES   HRDOW            NO
5242    L0000159         0   0.18750E-06  408072.1 3739833.4    17.0     3.49     6.51
        3.25     YES   HRDOW            NO
5243    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
5244     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
5245
                                    PAGE   6
5246    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5247
5248
5249                                                  *** VOLUME SOURCE DATA ***
5250
5251                  NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
                      INIT.   URBAN  EMISSION RATE   AIRCRAFT
5252      SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
          SZ     SOURCE  SCALAR VARY
5253        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
            (METERS)              BY
5254    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - -
5255
5256    L0000160         0   0.18750E-06  408071.7 3739819.4    17.0     3.49     6.51
        3.25     YES   HRDOW            NO
5257    L0000161         0   0.18750E-06  408071.6 3739805.4    17.0     3.49     6.51
        3.25     YES   HRDOW            NO
5258    L0000162         0   0.18750E-06  408071.6 3739791.4    17.0     3.49     6.51
        3.25     YES   HRDOW            NO
5259    L0000163         0   0.18750E-06  408071.6 3739777.4    17.0     3.49     6.51
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        3.25     YES   HRDOW            NO
5260    L0000164          0   0.18750E-06  408071.7 3739763.4    16.9     3.49     6.51
        3.25     YES   HRDOW            NO
5261    L0000165          0   0.18750E-06  408071.7 3739749.4    16.7     3.49     6.51
        3.25     YES   HRDOW            NO
5262    L0000166          0   0.18750E-06  408071.7 3739735.4    16.6     3.49     6.51
        3.25     YES   HRDOW            NO
5263    L0000167          0   0.18750E-06  408071.8 3739721.4    16.4     3.49     6.51
        3.25     YES   HRDOW            NO
5264    L0000168          0   0.18750E-06  408071.8 3739707.4    16.2     3.49     6.51
        3.25     YES   HRDOW            NO
5265    L0000169          0   0.18750E-06  408071.8 3739693.4    16.1     3.49     6.51
        3.25     YES   HRDOW            NO
5266    L0000170          0   0.18750E-06  408071.8 3739679.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5267    L0000171          0   0.18750E-06  408071.9 3739665.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5268    L0000172          0   0.18750E-06  408071.9 3739651.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5269    L0000173          0   0.18750E-06  408071.9 3739637.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5270    L0000174          0   0.18750E-06  408071.9 3739623.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5271    L0000175          0   0.18750E-06  408072.0 3739609.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5272    L0000176          0   0.18750E-06  408072.0 3739595.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5273    L0000177          0   0.18750E-06  408072.0 3739581.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5274    L0000178          0   0.18750E-06  408072.0 3739567.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5275    L0000179          0   0.18750E-06  408072.1 3739553.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5276    L0000180          0   0.18750E-06  408072.1 3739539.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5277    L0000181          0   0.18750E-06  408072.2 3739525.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5278    L0000182          0   0.18750E-06  408072.4 3739511.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5279    L0000183          0   0.18750E-06  408072.6 3739497.4    16.0     3.49     6.51
        3.25     YES   HRDOW            NO
5280    L0000184          0   0.18750E-06  408072.8 3739483.4    15.8     3.49     6.51
        3.25     YES   HRDOW            NO
5281    L0000185          0   0.18750E-06  408073.0 3739469.4    15.7     3.49     6.51
        3.25     YES   HRDOW            NO
5282    L0000186          0   0.18750E-06  408073.2 3739455.4    15.5     3.49     6.51
        3.25     YES   HRDOW            NO
5283    L0000187          0   0.18750E-06  408073.4 3739441.4    15.4     3.49     6.51
        3.25     YES   HRDOW            NO
5284    L0000188          0   0.18750E-06  408073.6 3739427.4    15.2     3.49     6.51
        3.25     YES   HRDOW            NO
5285    L0000189          0   0.18750E-06  408073.8 3739413.4    15.1     3.49     6.51
        3.25     YES   HRDOW            NO
5286    L0000190          0   0.18750E-06  408074.0 3739399.4    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5287    L0000191          0   0.18750E-06  408074.2 3739385.4    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5288    L0000192          0   0.18750E-06  408074.4 3739371.4    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5289    L0000193          0   0.18750E-06  408074.6 3739357.4    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5290    L0000194          0   0.18750E-06  408074.8 3739343.4    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5291    L0000195          0   0.18750E-06  408075.0 3739329.4    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5292    L0000196          0   0.18750E-06  408075.2 3739315.4    15.0     3.49     6.51
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      3.25     YES   HRDOW            NO
5293  L0000197         0   0.18750E-06  408075.4 3739301.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5294  L0000198         0   0.18750E-06  408075.6 3739287.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5295  L0000199         0   0.18750E-06  408075.8 3739273.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5296  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
5297   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
5298
                                  PAGE   7
5299  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5300
5301
5302                                                *** VOLUME SOURCE DATA ***
5303
5304                NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
                    INIT.   URBAN  EMISSION RATE   AIRCRAFT
5305      SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
          SZ     SOURCE  SCALAR VARY
5306        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
            (METERS)             BY
5307  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - -
5308
5309  L0000200         0   0.18750E-06  408076.0 3739259.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5310  L0000201         0   0.18750E-06  408076.2 3739245.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5311  L0000202         0   0.18750E-06  408076.4 3739231.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5312  L0000203         0   0.18750E-06  408076.6 3739217.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5313  L0000204         0   0.18750E-06  408076.8 3739203.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5314  L0000205         0   0.18750E-06  408077.0 3739189.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5315  L0000206         0   0.18750E-06  408077.2 3739175.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5316  L0000207         0   0.18750E-06  408077.4 3739161.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5317  L0000208         0   0.18750E-06  408077.2 3739147.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5318  L0000209         0   0.18750E-06  408077.0 3739133.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5319  L0000210         0   0.18750E-06  408076.7 3739119.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5320  L0000211         0   0.18750E-06  408076.4 3739105.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5321  L0000212         0   0.18750E-06  408076.1 3739091.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5322  L0000213         0   0.18750E-06  408075.9 3739077.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5323  L0000214         0   0.18750E-06  408075.6 3739063.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5324  L0000215         0   0.18750E-06  408075.3 3739049.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5325  L0000216         0   0.18750E-06  408075.0 3739035.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5326  L0000217         0   0.18750E-06  408074.8 3739021.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
5327  L0000218         0   0.18750E-06  408074.5 3739007.4    15.0     3.49     6.51
      3.25     YES   HRDOW            NO
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5328    L0000219         0   0.18750E-06  408074.2 3738993.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5329    L0000220         0   0.18750E-06  408073.9 3738979.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5330    L0000221         0   0.18750E-06  408073.7 3738965.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5331    L0000222         0   0.18750E-06  408073.7 3738951.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5332    L0000223         0   0.18750E-06  408073.7 3738937.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5333    L0000224         0   0.18750E-06  408073.7 3738923.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5334    L0000225         0   0.18750E-06  408073.7 3738909.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5335    L0000226         0   0.18750E-06  408073.7 3738895.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5336    L0000227         0   0.18750E-06  408073.7 3738881.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5337    L0000228         0   0.18750E-06  408073.7 3738867.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5338    L0000229         0   0.18750E-06  408073.8 3738853.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5339    L0000230         0   0.18750E-06  408074.0 3738839.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5340    L0000231         0   0.18750E-06  408074.3 3738825.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5341    L0000232         0   0.18750E-06  408074.5 3738811.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5342    L0000233         0   0.18750E-06  408074.7 3738797.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5343    L0000234         0   0.18750E-06  408074.7 3738783.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5344    L0000235         0   0.18750E-06  408074.6 3738769.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5345    L0000236         0   0.18750E-06  408074.4 3738755.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5346    L0000237         0   0.18750E-06  408074.3 3738741.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5347    L0000238         0   0.18750E-06  408074.2 3738727.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5348    L0000239         0   0.18750E-06  408074.0 3738713.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5349    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
5350     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
5351
                                    PAGE   8
5352    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5353
5354
5355                                                  *** VOLUME SOURCE DATA ***
5356
5357                  NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
                      INIT.   URBAN  EMISSION RATE   AIRCRAFT
5358      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
          SZ     SOURCE  SCALAR VARY
5359        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
            (METERS)             BY
5360    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - -
5361
5362    L0000240         0   0.18750E-06  408073.9 3738699.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5363    L0000241         0   0.18750E-06  408073.7 3738685.5    15.0     3.49     6.51
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        3.25     YES   HRDOW            NO
5364    L0000242          0   0.18750E-06  408073.6 3738671.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5365    L0000243          0   0.18750E-06  408073.5 3738657.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5366    L0000244          0   0.18750E-06  408073.3 3738643.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5367    L0000245          0   0.18750E-06  408073.2 3738629.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5368    L0000246          0   0.18750E-06  408073.1 3738615.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5369    L0000247          0   0.18750E-06  408072.9 3738601.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5370    L0000248          0   0.18750E-06  408072.8 3738587.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5371    L0000249          0   0.18750E-06  408072.7 3738573.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5372    L0000250          0   0.18750E-06  408072.8 3738559.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5373    L0000251          0   0.18750E-06  408072.9 3738545.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5374    L0000252          0   0.18750E-06  408073.1 3738531.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5375    L0000253          0   0.18750E-06  408073.2 3738517.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5376    L0000254          0   0.18750E-06  408073.4 3738503.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5377    L0000255          0   0.18750E-06  408073.5 3738489.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5378    L0000256          0   0.18750E-06  408073.7 3738475.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5379    L0000257          0   0.18750E-06  408073.8 3738461.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5380    L0000258          0   0.18750E-06  408074.0 3738447.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5381    L0000259          0   0.18750E-06  408074.1 3738433.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5382    L0000260          0   0.18750E-06  408074.3 3738419.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5383    L0000261          0   0.18750E-06  408074.4 3738405.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5384    L0000262          0   0.18750E-06  408074.6 3738391.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5385    L0000263          0   0.18750E-06  408074.7 3738377.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5386    L0000264          0   0.18750E-06  408074.9 3738363.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5387    L0000265          0   0.18750E-06  408075.0 3738349.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5388    L0000266          0   0.18750E-06  408075.2 3738335.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5389    L0000267          0   0.18750E-06  408075.3 3738321.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5390    L0000268          0   0.18750E-06  408075.0 3738307.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5391    L0000269          0   0.18750E-06  408074.7 3738293.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5392    L0000270          0   0.18750E-06  408074.4 3738279.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5393    L0000271          0   0.18750E-06  408074.1 3738265.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5394    L0000272          0   0.18750E-06  408073.8 3738251.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5395    L0000273          0   0.18750E-06  408073.5 3738237.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5396    L0000274          0   0.18750E-06  408073.2 3738223.5    15.0     3.49     6.51
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER INIT. SOURCE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	SZ (METERS)	SOURCE SCALAR VARY BY
L0000275	0	0.18750E-06	408072.9	3738209.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000276	0	0.18750E-06	408072.7	3738195.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000277	0	0.18750E-06	408072.9	3738181.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000278	0	0.18750E-06	408073.1	3738167.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000279	0	0.18750E-06	408073.3	3738153.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000280	0	0.18750E-06	408073.5	3738139.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000281	0	0.18750E-06	408073.7	3738125.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000282	0	0.18750E-06	408073.5	3738111.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000283	0	0.18750E-06	408073.4	3738097.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000284	0	0.18750E-06	408073.2	3738083.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000285	0	0.18750E-06	408073.1	3738069.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000286	0	0.18750E-06	408072.9	3738055.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000287	0	0.18750E-06	408072.7	3738041.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000288	0	0.18750E-06	408072.6	3738027.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000289	0	0.18750E-06	408072.4	3738013.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000290	0	0.18750E-06	408072.3	3737999.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000291	0	0.18750E-06	408072.1	3737985.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000292	0	0.18750E-06	408072.0	3737971.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000293	0	0.18750E-06	408071.8	3737957.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000294	0	0.18750E-06	408071.6	3737943.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000295	0	0.18750E-06	408071.5	3737929.5	15.0	3.49	6.51	3.25	YES HRDOW
L0000296	0	0.18750E-06	408071.3	3737915.5	15.0	3.49	6.51	3.25	YES HRDOW

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5432    L0000297         0   0.18750E-06  408071.2 3737901.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5433    L0000298         0   0.18750E-06  408071.0 3737887.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5434    L0000299         0   0.18750E-06  408070.8 3737873.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5435    L0000300         0   0.18750E-06  408070.7 3737859.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5436    L0000301         0   0.18750E-06  408070.5 3737845.5    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5437    L0000302         0   0.18750E-06  408071.2 3737831.6    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5438    L0000303         0   0.18750E-06  408072.0 3737817.6    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5439    L0000304         0   0.18750E-06  408072.8 3737803.6    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5440    L0000305         0   0.18750E-06  408073.7 3737789.6    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5441    L0000306         0   0.18750E-06  408074.2 3737775.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5442    L0000307         0   0.18750E-06  408074.2 3737761.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5443    L0000308         0   0.18750E-06  408074.1 3737747.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5444    L0000309         0   0.18750E-06  408074.1 3737733.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5445    L0000310         0   0.18750E-06  408074.0 3737719.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5446    L0000311         0   0.18750E-06  408074.0 3737705.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5447    L0000312         0   0.18750E-06  408073.9 3737691.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5448    L0000313         0   0.18750E-06  408073.9 3737677.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5449    L0000314         0   0.18750E-06  408073.8 3737663.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5450    L0000315         0   0.18750E-06  408073.8 3737649.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5451    L0000316         0   0.18750E-06  408073.7 3737635.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5452    L0000317         0   0.18750E-06  408073.7 3737621.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5453    L0000318         0   0.18750E-06  408073.6 3737607.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5454    L0000319         0   0.18750E-06  408073.6 3737593.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5455    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***       01/22/25
5456     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
5457
                                    PAGE  10
5458    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5459
5460
5461                                                  *** VOLUME SOURCE DATA ***
5462
5463                  NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
                      INIT.   URBAN  EMISSION RATE   AIRCRAFT
5464      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
          SZ     SOURCE  SCALAR VARY
5465        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
            (METERS)             BY
5466    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - -
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5467
5468    L0000320         0   0.18750E-06  408073.5 3737579.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5469    L0000321         0   0.18750E-06  408073.5 3737565.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5470    L0000322         0   0.18750E-06  408073.4 3737551.7    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5471    L0000323         0   0.18750E-06  408073.4 3737537.7    15.1     3.49     6.51
        3.25     YES   HRDOW            NO
5472    L0000324         0   0.18750E-06  408073.3 3737523.7    15.1     3.49     6.51
        3.25     YES   HRDOW            NO
5473    L0000325         0   0.18750E-06  408073.3 3737509.7    15.2     3.49     6.51
        3.25     YES   HRDOW            NO
5474    L0000326         0   0.18750E-06  408073.2 3737495.7    15.2     3.49     6.51
        3.25     YES   HRDOW            NO
5475    L0000327         0   0.18750E-06  408073.2 3737481.7    15.3     3.49     6.51
        3.25     YES   HRDOW            NO
5476    L0000328         0   0.18750E-06  408073.2 3737467.7    15.4     3.49     6.51
        3.25     YES   HRDOW            NO
5477    L0000329         0   0.18750E-06  408073.2 3737453.7    15.4     3.49     6.51
        3.25     YES   HRDOW            NO
5478    L0000330         0   0.18750E-06  408073.2 3737439.7    15.4     3.49     6.51
        3.25     YES   HRDOW            NO
5479    L0000331         0   0.18750E-06  408074.0 3737425.7    15.3     3.49     6.51
        3.25     YES   HRDOW            NO
5480    L0000332         0   0.18750E-06  408074.8 3737411.7    15.3     3.49     6.51
        3.25     YES   HRDOW            NO
5481    L0000333         0   0.18750E-06  408075.6 3737397.7    15.3     3.49     6.51
        3.25     YES   HRDOW            NO
5482    L0000334         0   0.18750E-06  408077.5 3737383.9    15.3     3.49     6.51
        3.25     YES   HRDOW            NO
5483    L0000335         0   0.18750E-06  408079.8 3737370.1    15.2     3.49     6.51
        3.25     YES   HRDOW            NO
5484    L0000336         0   0.18750E-06  408082.1 3737356.3    15.2     3.49     6.51
        3.25     YES   HRDOW            NO
5485    L0000337         0   0.18750E-06  408084.4 3737342.4    15.2     3.49     6.51
        3.25     YES   HRDOW            NO
5486    L0000338         0   0.18750E-06  408087.2 3737328.7    15.2     3.49     6.51
        3.25     YES   HRDOW            NO
5487    L0000339         0   0.18750E-06  408090.3 3737315.1    15.1     3.49     6.51
        3.25     YES   HRDOW            NO
5488    L0000340         0   0.18750E-06  408093.5 3737301.4    15.1     3.49     6.51
        3.25     YES   HRDOW            NO
5489    L0000341         0   0.18750E-06  408096.6 3737287.8    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5490    L0000342         0   0.18750E-06  408099.8 3737274.2    15.0     3.49     6.51
        3.25     YES   HRDOW            NO
5491    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
5492     *** AERMET - VERSION  16216 ***
         ***                                                                  ***
         12:35:34
5493
                                    PAGE  11
5494     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5495
5496
5497                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***
5498
5499     SRCGROUP ID                                              SOURCE IDs
5500     -----------                                              ----------
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5502
5503      ALL        VOL1        , L0000001    , L0000002    , L0000003    , L0000004    ,
         L0000005    , L0000006    , L0000007    ,
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                  L0000021    , L0000022    , L0000023    ,
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5511              L0000032    , L0000033    , L0000034    , L0000035    , L0000036    ,
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5517              L0000056    , L0000057    , L0000058    , L0000059    , L0000060    ,
                  L0000061    , L0000062    , L0000063    ,
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5519              L0000064    , L0000065    , L0000066    , L0000067    , L0000068    ,
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5523              L0000080    , L0000081    , L0000082    , L0000083    , L0000084    ,
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5525              L0000088    , L0000089    , L0000090    , L0000091    , L0000092    ,
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5527              L0000096    , L0000097    , L0000098    , L0000099    , L0000100    ,
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5529              L0000104    , L0000105    , L0000106    , L0000107    , L0000108    ,
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5531              L0000112    , L0000113    , L0000114    , L0000115    , L0000116    ,
                  L0000117    , L0000118    , L0000119    ,
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5533              L0000120    , L0000121    , L0000122    , L0000123    , L0000124    ,
                  L0000125    , L0000126    , L0000127    ,
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5535              L0000128    , L0000129    , L0000130    , L0000131    , L0000132    ,
                  L0000133    , L0000134    , L0000135    ,
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5537              L0000136    , L0000137    , L0000138    , L0000139    , L0000140    ,
                  L0000141    , L0000142    , L0000143    ,
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5539              L0000144    , L0000145    , L0000146    , L0000147    , L0000148    ,
                  L0000149    , L0000150    , L0000151    ,
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5541              L0000152    , L0000153    , L0000154    , L0000155    , L0000156    ,
                  L0000157    , L0000158    , L0000159    ,
5542 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
5543  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
5544
                                PAGE  12
5545  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5546
5547
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5548 *** SOURCE IDs DEFINING SOURCE GROUPS ***
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5550 SRCGROUP ID SOURCE IDs
5551 ---------- ----------
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5554 L0000160 , L0000161 , L0000162 , L0000163 , L0000164 ,
L0000165 , L0000166 , L0000167 ,
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5556 L0000168 , L0000169 , L0000170 , L0000171 , L0000172 ,
L0000173 , L0000174 , L0000175 ,
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5558 L0000176 , L0000177 , L0000178 , L0000179 , L0000180 ,
L0000181 , L0000182 , L0000183 ,
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5560 L0000184 , L0000185 , L0000186 , L0000187 , L0000188 ,
L0000189 , L0000190 , L0000191 ,
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5562 L0000192 , L0000193 , L0000194 , L0000195 , L0000196 ,
L0000197 , L0000198 , L0000199 ,
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5564 L0000200 , L0000201 , L0000202 , L0000203 , L0000204 ,
L0000205 , L0000206 , L0000207 ,
5565
5566 L0000208 , L0000209 , L0000210 , L0000211 , L0000212 ,
L0000213 , L0000214 , L0000215 ,
5567
5568 L0000216 , L0000217 , L0000218 , L0000219 , L0000220 ,
L0000221 , L0000222 , L0000223 ,
5569
5570 L0000224 , L0000225 , L0000226 , L0000227 , L0000228 ,
L0000229 , L0000230 , L0000231 ,
5571
5572 L0000232 , L0000233 , L0000234 , L0000235 , L0000236 ,
L0000237 , L0000238 , L0000239 ,
5573
5574 L0000240 , L0000241 , L0000242 , L0000243 , L0000244 ,
L0000245 , L0000246 , L0000247 ,
5575
5576 L0000248 , L0000249 , L0000250 , L0000251 , L0000252 ,
L0000253 , L0000254 , L0000255 ,
5577
5578 L0000256 , L0000257 , L0000258 , L0000259 , L0000260 ,
L0000261 , L0000262 , L0000263 ,
5579
5580 L0000264 , L0000265 , L0000266 , L0000267 , L0000268 ,
L0000269 , L0000270 , L0000271 ,
5581
5582 L0000272 , L0000273 , L0000274 , L0000275 , L0000276 ,
L0000277 , L0000278 , L0000279 ,
5583
5584 L0000280 , L0000281 , L0000282 , L0000283 , L0000284 ,
L0000285 , L0000286 , L0000287 ,
5585
5586 L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,
L0000293 , L0000294 , L0000295 ,
5587
5588 L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,
L0000301 , L0000302 , L0000303 ,
5589
5590 L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,
L0000309 , L0000310 , L0000311 ,
5591
5592 L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,
L0000317 , L0000318 , L0000319 ,
5593 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000320 , L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 ,
	L0000328 , L0000329 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 ,
	L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 ,

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

URBAN ID	URBAN POP	SOURCE IDs
	3010232.	VOL1 , L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 ,
		L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 ,
		L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 ,
		L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 ,
		L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 ,
		L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 ,
		L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 ,
		L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 ,
		L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 ,

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5640
5641              L0000072    , L0000073    , L0000074    , L0000075    , L0000076    ,
                  L0000077    , L0000078    , L0000079    ,
5642
5643              L0000080    , L0000081    , L0000082    , L0000083    , L0000084    ,
                  L0000085    , L0000086    , L0000087    ,
5644
5645              L0000088    , L0000089    , L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    ,
5646
5647              L0000096    , L0000097    , L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    ,
5648
5649              L0000104    , L0000105    , L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    ,
5650
5651              L0000112    , L0000113    , L0000114    , L0000115    , L0000116    ,
                  L0000117    , L0000118    , L0000119    ,
5652
5653              L0000120    , L0000121    , L0000122    , L0000123    , L0000124    ,
                  L0000125    , L0000126    , L0000127    ,
5654
5655              L0000128    , L0000129    , L0000130    , L0000131    , L0000132    ,
                  L0000133    , L0000134    , L0000135    ,
5656
5657              L0000136    , L0000137    , L0000138    , L0000139    , L0000140    ,
                  L0000141    , L0000142    , L0000143    ,
5658
5659              L0000144    , L0000145    , L0000146    , L0000147    , L0000148    ,
                  L0000149    , L0000150    , L0000151    ,
5660
5661              L0000152    , L0000153    , L0000154    , L0000155    , L0000156    ,
                  L0000157    , L0000158    , L0000159    ,
5662 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
5663  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
5664
                                PAGE  15
5665  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5666
5667
5668                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***
5669
5670   URBAN ID   URBAN POP                                    SOURCE IDs
5671   --------   ---------                                    ----------
5672
5673
5674              L0000160    , L0000161    , L0000162    , L0000163    , L0000164    ,
                  L0000165    , L0000166    , L0000167    ,
5675
5676              L0000168    , L0000169    , L0000170    , L0000171    , L0000172    ,
                  L0000173    , L0000174    , L0000175    ,
5677
5678              L0000176    , L0000177    , L0000178    , L0000179    , L0000180    ,
                  L0000181    , L0000182    , L0000183    ,
5679
5680              L0000184    , L0000185    , L0000186    , L0000187    , L0000188    ,
                  L0000189    , L0000190    , L0000191    ,
5681
5682              L0000192    , L0000193    , L0000194    , L0000195    , L0000196    ,
                  L0000197    , L0000198    , L0000199    ,
5683
5684              L0000200    , L0000201    , L0000202    , L0000203    , L0000204    ,
                  L0000205    , L0000206    , L0000207    ,
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5685
5686                L0000208    , L0000209    , L0000210    , L0000211    , L0000212    ,
                    L0000213    , L0000214    , L0000215    ,
5687
5688                L0000216    , L0000217    , L0000218    , L0000219    , L0000220    ,
                    L0000221    , L0000222    , L0000223    ,
5689
5690                L0000224    , L0000225    , L0000226    , L0000227    , L0000228    ,
                    L0000229    , L0000230    , L0000231    ,
5691
5692                L0000232    , L0000233    , L0000234    , L0000235    , L0000236    ,
                    L0000237    , L0000238    , L0000239    ,
5693
5694                L0000240    , L0000241    , L0000242    , L0000243    , L0000244    ,
                    L0000245    , L0000246    , L0000247    ,
5695
5696                L0000248    , L0000249    , L0000250    , L0000251    , L0000252    ,
                    L0000253    , L0000254    , L0000255    ,
5697
5698                L0000256    , L0000257    , L0000258    , L0000259    , L0000260    ,
                    L0000261    , L0000262    , L0000263    ,
5699
5700                L0000264    , L0000265    , L0000266    , L0000267    , L0000268    ,
                    L0000269    , L0000270    , L0000271    ,
5701
5702                L0000272    , L0000273    , L0000274    , L0000275    , L0000276    ,
                    L0000277    , L0000278    , L0000279    ,
5703
5704                L0000280    , L0000281    , L0000282    , L0000283    , L0000284    ,
                    L0000285    , L0000286    , L0000287    ,
5705
5706                L0000288    , L0000289    , L0000290    , L0000291    , L0000292    ,
                    L0000293    , L0000294    , L0000295    ,
5707
5708                L0000296    , L0000297    , L0000298    , L0000299    , L0000300    ,
                    L0000301    , L0000302    , L0000303    ,
5709
5710                L0000304    , L0000305    , L0000306    , L0000307    , L0000308    ,
                    L0000309    , L0000310    , L0000311    ,
5711
5712                L0000312    , L0000313    , L0000314    , L0000315    , L0000316    ,
                    L0000317    , L0000318    , L0000319    ,
5713  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
5714   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
5715
                                  PAGE  16
5716   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5717
5718
5719                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***
5720
5721     URBAN ID   URBAN POP                                  SOURCE IDs
5722     --------   ---------                                  ----------
5723
5724
5725                L0000320    , L0000321    , L0000322    , L0000323    , L0000324    ,
                    L0000325    , L0000326    , L0000327    ,
5726
5727                L0000328    , L0000329    , L0000330    , L0000331    , L0000332    ,
                    L0000333    , L0000334    , L0000335    ,
5728
5729                L0000336    , L0000337    , L0000338    , L0000339    , L0000340    ,
                    L0000341    , L0000342    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000001 ; SOURCE TYPE = VOLUME :

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

```
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000003     ; 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  .1000E+01
 9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .1000E+01
 9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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5844
5845                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
5846
5847    SOURCE ID = L0000005     ; SOURCE TYPE = VOLUME   :
5848     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
5849    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
5850                                                DAY OF WEEK = WEEKDAY
5851       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
5852       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
5853      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5854                                                DAY OF WEEK = SATURDAY
5855       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
5856       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
5857      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5858                                                DAY OF WEEK = SUNDAY
5859       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
5860       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
5861      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5862    FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
5863     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
5864
                                  PAGE  23
5865    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5866
5867                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
5868
5869    SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
5870     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
5871    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
5872                                                DAY OF WEEK = WEEKDAY
5873       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
5874       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
5875      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5876                                                DAY OF WEEK = SATURDAY
5877       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
5878       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
5879      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5880                                                DAY OF WEEK = SUNDAY
5881       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
5882       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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5883      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5884    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
5885     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
5886
                                    PAGE  24
5887     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5888
5889                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
5890
5891     SOURCE ID = L0000007     ; SOURCE TYPE = VOLUME   :
5892      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
5893    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
5894                                                DAY OF WEEK = WEEKDAY
5895       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
5896       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
5897      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5898                                                DAY OF WEEK = SATURDAY
5899       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
5900       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
5901      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5902                                                DAY OF WEEK = SUNDAY
5903       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
5904       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
5905      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5906    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
5907     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
5908
                                    PAGE  25
5909     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5910
5911                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
5912
5913     SOURCE ID = L0000008     ; SOURCE TYPE = VOLUME   :
5914      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
5915    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
5916                                                DAY OF WEEK = WEEKDAY
5917       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
5918       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
5919      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
5920                                                DAY OF WEEK = SATURDAY
5921       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
5922   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
5923  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
5924                                          DAY OF WEEK = SUNDAY
5925   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
5926   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
5927  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
5928 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
5929  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
5930
                                PAGE  26
5931  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5932
5933                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
5934
5935  SOURCE ID = L0000009     ; SOURCE TYPE = VOLUME   :
5936   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
5937  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
5938                                          DAY OF WEEK = WEEKDAY
5939   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
5940   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
5941  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
5942                                          DAY OF WEEK = SATURDAY
5943   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
5944   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
5945  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
5946                                          DAY OF WEEK = SUNDAY
5947   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
5948   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
5949  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
5950 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
5951  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
5952
                                PAGE  27
5953  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
5954
5955                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
5956
5957  SOURCE ID = L0000010     ; SOURCE TYPE = VOLUME   :
5958   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
5959  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

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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  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000011     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
   - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000012 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000013 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

6036 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
6037 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
6038 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
6039 *** AERMET - VERSION 16216 *** *** ***
12:35:34
6040

PAGE 31
6041 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
6042
6043 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
6044
6045 SOURCE ID = L0000014 ; SOURCE TYPE = VOLUME :
6046 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
6047 - - -

6074 DAY OF WEEK = SATURDAY
6075 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
6076 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
6077 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
6078 DAY OF WEEK = SUNDAY
6079 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
6080 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
6081 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
6082 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
6083 *** AERMET - VERSION 16216 *** *** 12:35:34
6084
PAGE 33
6085 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
6086
6087 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
6088
6089 SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :
6090 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
6091 - - -

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

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

SOURCE ID = L0000019 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000020 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
6189       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6190       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6191      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6192   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
6193    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
6194
                                    PAGE  38
6195    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6196
6197                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
6198
6199    SOURCE ID = L0000021     ; SOURCE TYPE = VOLUME   :
6200     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6201    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6202                                                DAY OF WEEK = WEEKDAY
6203       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6204       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6205      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6206                                                DAY OF WEEK = SATURDAY
6207       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6208       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6209      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6210                                                DAY OF WEEK = SUNDAY
6211       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6212       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6213      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6214   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
6215    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
6216
                                    PAGE  39
6217    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6218
6219                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
6220
6221    SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
6222     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6223    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6224                                                DAY OF WEEK = WEEKDAY
6225       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6226       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
```

```
6227      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6228                                              DAY OF WEEK = SATURDAY
6229       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
6230       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
6231      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6232                                              DAY OF WEEK = SUNDAY
6233       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
6234       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
6235      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6236 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
6237  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
6238
                                PAGE  40
6239  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6240
6241                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6242
6243  SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
6244   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
6245  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - - - - -
6246                                              DAY OF WEEK = WEEKDAY
6247       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
6248       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
6249      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6250                                              DAY OF WEEK = SATURDAY
6251       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
6252       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
6253      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6254                                              DAY OF WEEK = SUNDAY
6255       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
6256       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
6257      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6258 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
6259  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
6260
                                PAGE  41
6261  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6262
6263                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6264
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 SOURCE ID = L0000024     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

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

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

 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
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6303    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
6304
                                    PAGE  43
6305    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6306
6307                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6308
6309    SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME   :
6310     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6311    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - - -
6312                                                DAY OF WEEK = WEEKDAY
6313       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6314       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6315      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6316                                                DAY OF WEEK = SATURDAY
6317       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6318       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6319      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6320                                                DAY OF WEEK = SUNDAY
6321       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6322       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6323      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6324    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
6325     *** AERMET - VERSION  16216 ***
         ***                                                                   ***
         12:35:34
6326
                                    PAGE  44
6327    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6328
6329                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6330
6331    SOURCE ID = L0000027     ; SOURCE TYPE = VOLUME   :
6332     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6333    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - - -
6334                                                DAY OF WEEK = WEEKDAY
6335       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6336       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6337      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6338                                                DAY OF WEEK = SATURDAY
6339       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6340       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6341      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000028     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000029     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
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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  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
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                            PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000030     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

```
                    WEEK (HRDOW) *
6418
6419    SOURCE ID = L0000031     ; SOURCE TYPE = VOLUME   :
6420     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6421    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6422                                                DAY OF WEEK = WEEKDAY
6423       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6424       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6425      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6426                                                DAY OF WEEK = SATURDAY
6427       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6428       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6429      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6430                                                DAY OF WEEK = SUNDAY
6431       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6432       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6433      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6434    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
6435     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
6436
                                  PAGE  49
6437    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6438
6439                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6440
6441    SOURCE ID = L0000032     ; SOURCE TYPE = VOLUME   :
6442     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6443    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6444                                                DAY OF WEEK = WEEKDAY
6445       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6446       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6447      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6448                                                DAY OF WEEK = SATURDAY
6449       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6450       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6451      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6452                                                DAY OF WEEK = SUNDAY
6453       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6454       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6455      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
```

6460
6461 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
6462
6463 SOURCE ID = L0000033 ; SOURCE TYPE = VOLUME :
6464 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
6465 - - -

```
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000035     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
 12:35:34

                            PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000036     ; 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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6533       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6534       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6535      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6536                                              DAY OF WEEK = SATURDAY
6537       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6538       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6539      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6540                                              DAY OF WEEK = SUNDAY
6541       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6542       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6543      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6544 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
6545  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
6546
                                PAGE  54
6547  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6548
6549                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6550
6551  SOURCE ID = L0000037     ; SOURCE TYPE = VOLUME   :
6552   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
      SCALAR   HOUR   SCALAR   HOUR   SCALAR
6553  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
6554                                              DAY OF WEEK = WEEKDAY
6555       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6556       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6557      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6558                                              DAY OF WEEK = SATURDAY
6559       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6560       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6561      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6562                                              DAY OF WEEK = SUNDAY
6563       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6564       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6565      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6566 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
6567  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
6568
                                PAGE  55
6569  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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6570
6571                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6572
6573    SOURCE ID = L0000038     ; SOURCE TYPE = VOLUME   :
6574     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6575    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6576                                                DAY OF WEEK = WEEKDAY
6577       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6578       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6579      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6580                                                DAY OF WEEK = SATURDAY
6581       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6582       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6583      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6584                                                DAY OF WEEK = SUNDAY
6585       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6586       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6587      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6588    FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
6589     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
6590
                                  PAGE  56
6591    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6592
6593                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6594
6595    SOURCE ID = L0000039     ; SOURCE TYPE = VOLUME   :
6596     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6597    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6598                                                DAY OF WEEK = WEEKDAY
6599       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6600       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6601      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6602                                                DAY OF WEEK = SATURDAY
6603       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6604       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6605      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6606                                                DAY OF WEEK = SUNDAY
6607       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6608       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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6609      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6610    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
6611     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
6612
                                    PAGE  57
6613     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6614
6615                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
6616
6617     SOURCE ID = L0000040     ; SOURCE TYPE = VOLUME   :
6618      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
6619     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
6620                                                DAY OF WEEK = WEEKDAY
6621        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
6622        9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
6623       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6624                                                DAY OF WEEK = SATURDAY
6625        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
6626        9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
6627       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6628                                                DAY OF WEEK = SUNDAY
6629        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
6630        9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
6631       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6632    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
6633     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
6634
                                    PAGE  58
6635     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6636
6637                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
6638
6639     SOURCE ID = L0000041     ; SOURCE TYPE = VOLUME   :
6640      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
6641     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
6642                                                DAY OF WEEK = WEEKDAY
6643        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
6644        9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
6645       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
6646                                                DAY OF WEEK = SATURDAY
6647        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
6648   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
6649  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
6650                                          DAY OF WEEK = SUNDAY
6651   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
6652   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
6653  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
6654 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
6655  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
6656
                                PAGE  59
6657  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6658
6659                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6660
6661  SOURCE ID = L0000042     ; SOURCE TYPE = VOLUME   :
6662   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
6663  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
6664                                          DAY OF WEEK = WEEKDAY
6665   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
6666   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
6667  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
6668                                          DAY OF WEEK = SATURDAY
6669   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
6670   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
6671  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
6672                                          DAY OF WEEK = SUNDAY
6673   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
6674   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
6675  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
6676 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
6677  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
6678
                                PAGE  60
6679  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6680
6681                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
6682
6683  SOURCE ID = L0000043     ; SOURCE TYPE = VOLUME   :
6684   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
6685  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

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

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000044 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - - - - - - - - - - - - - - - - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000045 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000046 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

```
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                              PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000047     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                              PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000048     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

6800 DAY OF WEEK = SATURDAY
6801 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
6802 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
6803 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
6804 DAY OF WEEK = SUNDAY
6805 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
6806 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
6807 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
6808 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
6809 *** AERMET - VERSION 16216 *** *** 12:35:34
6810
PAGE 66
6811 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
6812
6813 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
6814
6815 SOURCE ID = L0000049 ; SOURCE TYPE = VOLUME :
6816 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
6817 - - -

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

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

SOURCE ID = L0000052 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000053 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
6915       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6916       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6917      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6918   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
6919    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
6920
                                    PAGE  71
6921    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6922
6923                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
6924
6925    SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
6926     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6927    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6928                                                DAY OF WEEK = WEEKDAY
6929       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6930       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
6931      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6932                                                DAY OF WEEK = SATURDAY
6933       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6934       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6935      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6936                                                DAY OF WEEK = SUNDAY
6937       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
6938       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
6939      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
6940   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
6941    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
6942
                                    PAGE  72
6943    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
6944
6945                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
6946
6947    SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
6948     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
6949    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
6950                                                DAY OF WEEK = WEEKDAY
6951       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
6952       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
```

```
      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000056     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

```
 SOURCE ID = L0000057     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

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

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

 SOURCE ID = L0000058     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
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7029    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
7030
                                    PAGE  76
7031    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7032
7033                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7034
7035    SOURCE ID = L0000059     ; SOURCE TYPE = VOLUME   :
7036     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7037    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7038                                                DAY OF WEEK = WEEKDAY
7039       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7040       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7041      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7042                                                DAY OF WEEK = SATURDAY
7043       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7044       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7045      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7046                                                DAY OF WEEK = SUNDAY
7047       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7048       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7049      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7050    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
7051     *** AERMET - VERSION  16216 ***
         ***                                                                   ***
         12:35:34
7052
                                    PAGE  77
7053    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7054
7055                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7056
7057    SOURCE ID = L0000060     ; SOURCE TYPE = VOLUME   :
7058     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7059    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7060                                                DAY OF WEEK = WEEKDAY
7061       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7062       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7063      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7064                                                DAY OF WEEK = SATURDAY
7065       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7066       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7067      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

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

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

SOURCE ID = L0000062 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01

```
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000063     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
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                    WEEK (HRDOW) *
7144
7145    SOURCE ID = L0000064     ; SOURCE TYPE = VOLUME   :
7146     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7147    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7148                                                DAY OF WEEK = WEEKDAY
7149       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7150       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7151      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7152                                                DAY OF WEEK = SATURDAY
7153       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7154       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7155      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7156                                                DAY OF WEEK = SUNDAY
7157       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7158       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7159      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7160    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
7161     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
7162
                                   PAGE  82
7163    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7164
7165                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7166
7167    SOURCE ID = L0000065     ; SOURCE TYPE = VOLUME   :
7168     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7169    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7170                                                DAY OF WEEK = WEEKDAY
7171       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7172       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7173      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7174                                                DAY OF WEEK = SATURDAY
7175       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7176       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7177      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7178                                                DAY OF WEEK = SUNDAY
7179       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7180       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7181      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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7186
7187 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
7188
7189 SOURCE ID = L0000066 ; SOURCE TYPE = VOLUME :
7190 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
7191 - - -

```
      .0000E+00   15  .0000E+00   16  .0000E+00
7221    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
7222                                          DAY OF WEEK = SUNDAY
7223     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
7224     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
7225    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
7226 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
7227  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
7228
                                PAGE  85
7229  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7230
7231                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                      WEEK (HRDOW) *
7232
7233  SOURCE ID = L0000068     ; SOURCE TYPE = VOLUME   :
7234   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
      SCALAR   HOUR   SCALAR   HOUR   SCALAR
7235  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
7236                                          DAY OF WEEK = WEEKDAY
7237     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
7238     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
7239    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
7240                                          DAY OF WEEK = SATURDAY
7241     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
7242     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
7243    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
7244                                          DAY OF WEEK = SUNDAY
7245     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
7246     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
7247    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
7248 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
7249  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
7250
                                PAGE  86
7251  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7252
7253                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                      WEEK (HRDOW) *
7254
7255  SOURCE ID = L0000069     ; SOURCE TYPE = VOLUME   :
7256   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
      SCALAR   HOUR   SCALAR   HOUR   SCALAR
7257  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
7258                                          DAY OF WEEK = WEEKDAY
```

7259 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01

7260 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

7261 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

7262 DAY OF WEEK = SATURDAY

7263 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

7264 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

7265 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

7266 DAY OF WEEK = SUNDAY

7267 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

7268 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

7269 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

7270 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

7271 *** AERMET - VERSION 16216 *** *** *** 12:35:34

7272

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7273 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

7274

7275 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

7276

7277 SOURCE ID = L0000070 ; SOURCE TYPE = VOLUME :

7278 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

7279 - - -

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7296
7297                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7298
7299    SOURCE ID = L0000071     ; SOURCE TYPE = VOLUME   :
7300     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7301    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7302                                                DAY OF WEEK = WEEKDAY
7303       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7304       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7305      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7306                                                DAY OF WEEK = SATURDAY
7307       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7308       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7309      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7310                                                DAY OF WEEK = SUNDAY
7311       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7312       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7313      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7314    FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
7315     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
7316
                                  PAGE  89
7317    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7318
7319                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7320
7321    SOURCE ID = L0000072     ; SOURCE TYPE = VOLUME   :
7322     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7323    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7324                                                DAY OF WEEK = WEEKDAY
7325       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7326       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7327      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7328                                                DAY OF WEEK = SATURDAY
7329       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7330       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7331      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7332                                                DAY OF WEEK = SUNDAY
7333       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7334       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
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                              PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000073     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                              PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000074     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+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
7374   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
7375  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
7376                                          DAY OF WEEK = SUNDAY
7377   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
7378   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
7379  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
7380 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
7381   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
7382
                                PAGE  92
7383   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7384
7385                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7386
7387   SOURCE ID = L0000075     ; SOURCE TYPE = VOLUME   :
7388    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
7389   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
7390                                          DAY OF WEEK = WEEKDAY
7391   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
7392   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
7393  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
7394                                          DAY OF WEEK = SATURDAY
7395   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
7396   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
7397  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
7398                                          DAY OF WEEK = SUNDAY
7399   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
7400   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
7401  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
7402 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
7403   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
7404
                                PAGE  93
7405   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7406
7407                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7408
7409   SOURCE ID = L0000076     ; SOURCE TYPE = VOLUME   :
7410    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
7411   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
- - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000077     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000078 ; 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	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000079 ; 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	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

```
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                              PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000080     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                              PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000081     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

7526 DAY OF WEEK = SATURDAY
7527 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
7528 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
7529 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
7530 DAY OF WEEK = SUNDAY
7531 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
7532 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
7533 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
7534 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
7535 *** AERMET - VERSION 16216 ***
*** ***
12:35:34
7536
PAGE 99
7537 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
7538
7539 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
7540
7541 SOURCE ID = L0000082 ; SOURCE TYPE = VOLUME :
7542 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
7543 - - -

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000085 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000086 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
7641       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7642       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7643      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7644   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
7645    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
7646
                                    PAGE 104
7647    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7648
7649                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
7650
7651    SOURCE ID = L0000087     ; SOURCE TYPE = VOLUME   :
7652     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7653    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7654                                                DAY OF WEEK = WEEKDAY
7655       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7656       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7657      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7658                                                DAY OF WEEK = SATURDAY
7659       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7660       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7661      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7662                                                DAY OF WEEK = SUNDAY
7663       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7664       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7665      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7666   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
7667    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
7668
                                    PAGE 105
7669    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7670
7671                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
7672
7673    SOURCE ID = L0000088     ; SOURCE TYPE = VOLUME   :
7674     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
7675    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
7676                                                DAY OF WEEK = WEEKDAY
7677       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7678       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
```

```
7679      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7680                                              DAY OF WEEK = SATURDAY
7681       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
7682       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
7683      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7684                                              DAY OF WEEK = SUNDAY
7685       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
7686       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
7687      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7688 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
7689  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
7690
                                PAGE 106
7691  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7692
7693                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7694
7695  SOURCE ID = L0000089     ; SOURCE TYPE = VOLUME   :
7696   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
7697  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
7698                                              DAY OF WEEK = WEEKDAY
7699       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
7700       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
7701      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7702                                              DAY OF WEEK = SATURDAY
7703       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
7704       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
7705      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7706                                              DAY OF WEEK = SUNDAY
7707       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
7708       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
7709      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7710 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
7711  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
7712
                                PAGE 107
7713  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7714
7715                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
7716
```

```
 SOURCE ID = L0000090     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 108
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000091     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000092   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000093   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000094     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000095     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
```

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7832       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7833      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7834                                                DAY OF WEEK = SATURDAY
7835       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7836       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7837      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7838                                                DAY OF WEEK = SUNDAY
7839       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7840       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7841      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7842  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
7843       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
7844
                                      PAGE 113
7845       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7846
7847                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
7848
7849       SOURCE ID = L0000096     ; SOURCE TYPE = VOLUME   :
7850        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
7851      - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
7852                                                DAY OF WEEK = WEEKDAY
7853         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7854       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7855      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7856                                                DAY OF WEEK = SATURDAY
7857       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7858       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7859      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7860                                                DAY OF WEEK = SUNDAY
7861       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7862       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7863      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
7864  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
7865       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
7866
                                      PAGE 114
7867       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
7868
7869                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

7870 WEEK (HRDOW) *
7871
7872 SOURCE ID = L0000097 ; SOURCE TYPE = VOLUME :
7873 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
7874 - - -

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

SOURCE ID = L0000099 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000100 ; SOURCE TYPE = VOLUME :

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

.0000E+00 15 .0000E+00 16 .0000E+00
7947 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
7948 DAY OF WEEK = SUNDAY
7949 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
7950 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
7951 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
7952 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const *** 01/22/25
7953 *** AERMET - VERSION 16216 ***
*** ***
12:35:34
7954
PAGE 118
7955 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
7956
7957 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
7958
7959 SOURCE ID = L0000101 ; SOURCE TYPE = VOLUME :
7960 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
7961 - - -

```
7985       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
7986       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
7987      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7988                                              DAY OF WEEK = SATURDAY
7989       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7990       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7991      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7992                                              DAY OF WEEK = SUNDAY
7993       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
7994       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
7995      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
7996 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
7997  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
7998
                                PAGE 120
7999  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8000
8001                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8002
8003  SOURCE ID = L0000103     ; SOURCE TYPE = VOLUME   :
8004   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
8005  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
8006                                              DAY OF WEEK = WEEKDAY
8007       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
8008       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
8009      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8010                                              DAY OF WEEK = SATURDAY
8011       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8012       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8013      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8014                                              DAY OF WEEK = SUNDAY
8015       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8016       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8017      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8018 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
8019  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
8020
                                PAGE 121
8021  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

8022
8023 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8024
8025 SOURCE ID = L0000104 ; SOURCE TYPE = VOLUME :
8026 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8027 - - -

```
8061      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8062    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
8063       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
8064
                                      PAGE 123
8065       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8066
8067                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                             WEEK (HRDOW) *
8068
8069       SOURCE ID = L0000106     ; SOURCE TYPE = VOLUME   :
8070        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
8071       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
           - - - - - - - - - - - - - - - - - - - -
8072                                                  DAY OF WEEK = WEEKDAY
8073          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .1000E+01
8074          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
              .1000E+01   15  .1000E+01   16  .0000E+00
8075        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
8076                                                  DAY OF WEEK = SATURDAY
8077          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .0000E+00
8078          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
              .0000E+00   15  .0000E+00   16  .0000E+00
8079        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
8080                                                  DAY OF WEEK = SUNDAY
8081          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .0000E+00
8082          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
              .0000E+00   15  .0000E+00   16  .0000E+00
8083        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
8084    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
8085       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
8086
                                      PAGE 124
8087       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8088
8089                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                             WEEK (HRDOW) *
8090
8091       SOURCE ID = L0000107     ; SOURCE TYPE = VOLUME   :
8092        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
8093       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
           - - - - - - - - - - - - - - - - - - - -
8094                                                  DAY OF WEEK = WEEKDAY
8095          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .1000E+01
8096          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
              .1000E+01   15  .1000E+01   16  .0000E+00
8097        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
8098                                                  DAY OF WEEK = SATURDAY
8099          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
8100   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
8101  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
8102                                          DAY OF WEEK = SUNDAY
8103   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
8104   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
8105  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
8106 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
8107  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
8108
                                PAGE 125
8109  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8110
8111                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8112
8113  SOURCE ID = L0000108     ; SOURCE TYPE = VOLUME   :
8114   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
8115  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - - - - - -
8116                                          DAY OF WEEK = WEEKDAY
8117   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
8118   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
8119  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
8120                                          DAY OF WEEK = SATURDAY
8121   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
8122   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
8123  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
8124                                          DAY OF WEEK = SUNDAY
8125   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
8126   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
8127  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
8128 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
8129  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
8130
                                PAGE 126
8131  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8132
8133                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8134
8135  SOURCE ID = L0000109     ; SOURCE TYPE = VOLUME   :
8136   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
8137  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

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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  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000110     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000111 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000112 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

8214 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8215 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8216 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
*** AERMET - VERSION 16216 ***
*** ***
12:35:34
8218
PAGE 130
8219 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
8220
8221 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8222
8223 SOURCE ID = L0000113 ; SOURCE TYPE = VOLUME :
8224 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8225 - - -

8252 DAY OF WEEK = SATURDAY
8253 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
8254 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8255 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8256 DAY OF WEEK = SUNDAY
8257 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
8258 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8259 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8260 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
8261 *** AERMET - VERSION 16216 ***
*** ***
12:35:34
8262
PAGE 132
8263 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
8264
8265 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8266
8267 SOURCE ID = L0000115 ; SOURCE TYPE = VOLUME :
8268 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8269 - - -

SCALAR HOUR SCALAR HOUR SCALAR
- - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000118 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000119 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
8367       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8368       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8369      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8370   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
8371    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
8372
                                    PAGE 137
8373    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8374
8375                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
8376
8377    SOURCE ID = L0000120     ; SOURCE TYPE = VOLUME   :
8378     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
8379    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
8380                                                DAY OF WEEK = WEEKDAY
8381       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
8382       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
8383      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8384                                                DAY OF WEEK = SATURDAY
8385       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8386       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8387      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8388                                                DAY OF WEEK = SUNDAY
8389       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8390       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8391      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8392   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
8393    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
8394
                                    PAGE 138
8395    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8396
8397                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
8398
8399    SOURCE ID = L0000121     ; SOURCE TYPE = VOLUME   :
8400     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
8401    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
8402                                                DAY OF WEEK = WEEKDAY
8403       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
8404       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
```

```
8405      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8406                                              DAY OF WEEK = SATURDAY
8407       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
8408       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
8409      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8410                                              DAY OF WEEK = SUNDAY
8411       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
8412       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
8413      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8414  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
8415   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
8416
                                  PAGE 139
8417   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8418
8419                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8420
8421   SOURCE ID = L0000122     ; SOURCE TYPE = VOLUME   :
8422    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
8423   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
8424                                              DAY OF WEEK = WEEKDAY
8425       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
8426       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
8427      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8428                                              DAY OF WEEK = SATURDAY
8429       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
8430       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
8431      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8432                                              DAY OF WEEK = SUNDAY
8433       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
8434       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
8435      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8436  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
8437   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
8438
                                  PAGE 140
8439   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8440
8441                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8442
```

```
 SOURCE ID = L0000123     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 141
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000124     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000125   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000126   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 144
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000127     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 145
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000128     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
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8558       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
8559      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8560                                                DAY OF WEEK = SATURDAY
8561       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8562       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8563      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8564                                                DAY OF WEEK = SUNDAY
8565       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8566       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8567      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8568 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
8569        *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
8570
                                      PAGE 146
8571        *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8572
8573                          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
8574
8575        SOURCE ID = L0000129     ; SOURCE TYPE = VOLUME   :
8576         HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
             SCALAR   HOUR   SCALAR   HOUR   SCALAR
8577        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
8578                                                DAY OF WEEK = WEEKDAY
8579          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .1000E+01
8580          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
              .1000E+01   15  .1000E+01   16  .0000E+00
8581         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
8582                                                DAY OF WEEK = SATURDAY
8583          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .0000E+00
8584          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
              .0000E+00   15  .0000E+00   16  .0000E+00
8585         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
8586                                                DAY OF WEEK = SUNDAY
8587          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .0000E+00
8588          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
              .0000E+00   15  .0000E+00   16  .0000E+00
8589         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
8590 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
8591        *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
8592
                                      PAGE 147
8593        *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8594
8595                          * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

```
                    WEEK (HRDOW) *
8596
8597    SOURCE ID = L0000130     ; SOURCE TYPE = VOLUME   :
8598     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
8599    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
8600                                                DAY OF WEEK = WEEKDAY
8601       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
8602       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
8603      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8604                                                DAY OF WEEK = SATURDAY
8605       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8606       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8607      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8608                                                DAY OF WEEK = SUNDAY
8609       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8610       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8611      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8612    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
8613     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
8614
                                    PAGE 148
8615    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8616
8617                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8618
8619    SOURCE ID = L0000131     ; SOURCE TYPE = VOLUME   :
8620     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
8621    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
8622                                                DAY OF WEEK = WEEKDAY
8623       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
8624       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
8625      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8626                                                DAY OF WEEK = SATURDAY
8627       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8628       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8629      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8630                                                DAY OF WEEK = SUNDAY
8631       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8632       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8633      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
```

8638
8639 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8640
8641 SOURCE ID = L0000132 ; SOURCE TYPE = VOLUME :
8642 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8643 - - -

```
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
 12:35:34

                            PAGE 151
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000134     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
 12:35:34

                            PAGE 152
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000135     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
```

8711 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
8712 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00
8713 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8714 DAY OF WEEK = SATURDAY
8715 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
8716 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8717 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8718 DAY OF WEEK = SUNDAY
8719 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
8720 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8721 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8722 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
8723 *** AERMET - VERSION 16216 *** *** *** 12:35:34
8724
PAGE 153
8725 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
8726
8727 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8728
8729 SOURCE ID = L0000136 ; SOURCE TYPE = VOLUME :
8730 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8731 - - -

8748
8749 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8750
8751 SOURCE ID = L0000137 ; SOURCE TYPE = VOLUME :
8752 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8753 - - -

```
8787      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
8788   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
8789       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
8790
                                      PAGE 156
8791       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8792
8793                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
8794
8795       SOURCE ID = L0000139     ; SOURCE TYPE = VOLUME   :
8796        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
8797       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
           - - - - - - - - - - - - - - - - - - - -
8798                                                  DAY OF WEEK = WEEKDAY
8799         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
8800         9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
8801        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8802                                                  DAY OF WEEK = SATURDAY
8803         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8804         9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8805        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8806                                                  DAY OF WEEK = SUNDAY
8807         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
8808         9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
8809        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8810   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
8811       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
8812
                                      PAGE 157
8813       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8814
8815                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
8816
8817       SOURCE ID = L0000140     ; SOURCE TYPE = VOLUME   :
8818        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
8819       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
           - - - - - - - - - - - - - - - - - - - -
8820                                                  DAY OF WEEK = WEEKDAY
8821         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
8822         9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
8823        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
8824                                                  DAY OF WEEK = SATURDAY
8825         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
        .0000E+00    7  .0000E+00    8  .0000E+00
8826     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
8827    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
8828                                          DAY OF WEEK = SUNDAY
8829     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .0000E+00
8830     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
8831    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
8832 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
8833  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
8834
                                PAGE 158
8835  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8836
8837                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8838
8839  SOURCE ID = L0000141     ; SOURCE TYPE = VOLUME   :
8840   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
8841  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - - - - - -
8842                                          DAY OF WEEK = WEEKDAY
8843     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .1000E+01
8844     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
        .1000E+01   15  .1000E+01   16  .0000E+00
8845    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
8846                                          DAY OF WEEK = SATURDAY
8847     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .0000E+00
8848     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
8849    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
8850                                          DAY OF WEEK = SUNDAY
8851     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .0000E+00
8852     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
8853    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
8854 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
8855  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
8856
                                PAGE 159
8857  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
8858
8859                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
8860
8861  SOURCE ID = L0000142     ; SOURCE TYPE = VOLUME   :
8862   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
8863  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

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

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000143 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - - - - - - - - - - - - - - - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000144 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000145 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

8940 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8941 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8942 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
8943 *** AERMET - VERSION 16216 *** *** 12:35:34
8944

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8945 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
8946
8947 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8948
8949 SOURCE ID = L0000146 ; SOURCE TYPE = VOLUME :
8950 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8951 - - -

8978 DAY OF WEEK = SATURDAY
8979 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
8980 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8981 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8982 DAY OF WEEK = SUNDAY
8983 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
8984 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
8985 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
8986 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
8987 *** AERMET - VERSION 16216 ***
*** ***
12:35:34
8988
PAGE 165
8989 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
8990
8991 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
8992
8993 SOURCE ID = L0000148 ; SOURCE TYPE = VOLUME :
8994 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
8995 - - -

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

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

SOURCE ID = L0000151 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000152 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
9093       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9094       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9095      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9096   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
9097    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
9098
                                    PAGE 170
9099    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9100
9101                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
9102
9103    SOURCE ID = L0000153     ; SOURCE TYPE = VOLUME   :
9104     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
9105    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9106                                                DAY OF WEEK = WEEKDAY
9107       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9108       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
9109      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9110                                                DAY OF WEEK = SATURDAY
9111       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9112       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9113      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9114                                                DAY OF WEEK = SUNDAY
9115       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9116       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9117      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9118   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
9119    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
9120
                                    PAGE 171
9121    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9122
9123                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
9124
9125    SOURCE ID = L0000154     ; SOURCE TYPE = VOLUME   :
9126     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
9127    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9128                                                DAY OF WEEK = WEEKDAY
9129       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9130       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
```

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

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000155 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

```
 SOURCE ID = L0000156     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 174
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000157     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000158   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000159   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000160     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 178
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000161     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
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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  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE 179
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000162     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE 180
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

9322
9323 SOURCE ID = L0000163 ; SOURCE TYPE = VOLUME :
9324 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
9325 - - -

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

SOURCE ID = L0000165 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000166 ; SOURCE TYPE = VOLUME :

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

```
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
 12:35:34

                            PAGE 184
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000167     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
 12:35:34

                            PAGE 185
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000168     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
```

```
9437       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9438       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
9439      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9440                                              DAY OF WEEK = SATURDAY
9441       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9442       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9443      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9444                                              DAY OF WEEK = SUNDAY
9445       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9446       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9447      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9448 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
9449  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
9450
                                PAGE 186
9451  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9452
9453                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
9454
9455  SOURCE ID = L0000169     ; SOURCE TYPE = VOLUME   :
9456   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
      SCALAR   HOUR   SCALAR   HOUR   SCALAR
9457  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - - - -
9458                                              DAY OF WEEK = WEEKDAY
9459       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9460       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
9461      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9462                                              DAY OF WEEK = SATURDAY
9463       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9464       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9465      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9466                                              DAY OF WEEK = SUNDAY
9467       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9468       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9469      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9470 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
9471  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
9472
                                PAGE 187
9473  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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9474
9475                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
9476
9477    SOURCE ID = L0000170     ; SOURCE TYPE = VOLUME   :
9478     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
9479    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9480                                                DAY OF WEEK = WEEKDAY
9481       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9482       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
9483      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9484                                                DAY OF WEEK = SATURDAY
9485       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9486       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9487      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9488                                                DAY OF WEEK = SUNDAY
9489       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9490       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9491      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9492    FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
9493     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
9494
                                    PAGE 188
9495    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9496
9497                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
9498
9499    SOURCE ID = L0000171     ; SOURCE TYPE = VOLUME   :
9500     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
9501    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9502                                                DAY OF WEEK = WEEKDAY
9503       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9504       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
9505      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9506                                                DAY OF WEEK = SATURDAY
9507       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9508       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9509      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9510                                                DAY OF WEEK = SUNDAY
9511       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9512       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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9513      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9514    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
9515     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
9516
                                    PAGE 189
9517     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9518
9519                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
9520
9521     SOURCE ID = L0000172     ; SOURCE TYPE = VOLUME   :
9522      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
9523    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9524                                                DAY OF WEEK = WEEKDAY
9525       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
9526       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
9527      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9528                                                DAY OF WEEK = SATURDAY
9529       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
9530       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
9531      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9532                                                DAY OF WEEK = SUNDAY
9533       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
9534       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
9535      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9536    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
9537     *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
9538
                                    PAGE 190
9539     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9540
9541                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
9542
9543     SOURCE ID = L0000173     ; SOURCE TYPE = VOLUME   :
9544      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
9545    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9546                                                DAY OF WEEK = WEEKDAY
9547       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
9548       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
9549      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9550                                                DAY OF WEEK = SATURDAY
9551       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

.0000E+00 7 .0000E+00 8 .0000E+00
9552 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
9553 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
9554 DAY OF WEEK = SUNDAY
9555 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9556 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
9557 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
9558 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
9559 *** AERMET - VERSION 16216 *** *** ***
12:35:34
9560
PAGE 191
9561 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
9562
9563 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
9564
9565 SOURCE ID = L0000174 ; SOURCE TYPE = VOLUME :
9566 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
9567 - - -

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000176 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000177 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000178 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000179 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- - - -

9704 DAY OF WEEK = SATURDAY
9705 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9706 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
9707 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
9708 DAY OF WEEK = SUNDAY
9709 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9710 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
9711 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
9712 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
9713 *** AERMET - VERSION 16216 ***
*** ***
12:35:34
9714
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9715 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
9716
9717 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
9718
9719 SOURCE ID = L0000181 ; SOURCE TYPE = VOLUME :
9720 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
9721 - - -

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

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

SOURCE ID = L0000184 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000185 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
9819       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9820       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9821      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9822   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
9823    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
9824
                                    PAGE 203
9825    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9826
9827                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
9828
9829    SOURCE ID = L0000186     ; SOURCE TYPE = VOLUME   :
9830     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
9831    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9832                                                DAY OF WEEK = WEEKDAY
9833       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9834       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
9835      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9836                                                DAY OF WEEK = SATURDAY
9837       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9838       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9839      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9840                                                DAY OF WEEK = SUNDAY
9841       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
9842       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
9843      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
9844   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
9845    *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
9846
                                    PAGE 204
9847    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9848
9849                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
9850
9851    SOURCE ID = L0000187     ; SOURCE TYPE = VOLUME   :
9852     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
9853    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
9854                                                DAY OF WEEK = WEEKDAY
9855       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
9856       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
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9857      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9858                                              DAY OF WEEK = SATURDAY
9859       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
9860       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
9861      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9862                                              DAY OF WEEK = SUNDAY
9863       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
9864       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
9865      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9866 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
9867       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
9868
                                      PAGE 205
9869       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9870
9871                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                             WEEK (HRDOW) *
9872
9873       SOURCE ID = L0000188     ; SOURCE TYPE = VOLUME   :
9874        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
9875       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
           - - - - - - - - - - - - - - - - - - - -
9876                                              DAY OF WEEK = WEEKDAY
9877       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
9878       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
9879      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9880                                              DAY OF WEEK = SATURDAY
9881       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
9882       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
9883      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9884                                              DAY OF WEEK = SUNDAY
9885       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
9886       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
9887      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
9888 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
9889       *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
9890
                                      PAGE 206
9891       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
9892
9893                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                             WEEK (HRDOW) *
9894
```

```
 SOURCE ID = L0000189     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 207
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000190     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000191   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000192   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 210
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000193     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 211
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000194     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
```

```
10010       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10011      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10012                                                DAY OF WEEK = SATURDAY
10013       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10014       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10015      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10016                                                DAY OF WEEK = SUNDAY
10017       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10018       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10019      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10020  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10021       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
10022
                                      PAGE 212
10023       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10024
10025                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
10026
10027       SOURCE ID = L0000195     ; SOURCE TYPE = VOLUME   :
10028        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
             SCALAR   HOUR   SCALAR   HOUR   SCALAR
10029       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
10030                                                DAY OF WEEK = WEEKDAY
10031          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .1000E+01
10032          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
               .1000E+01   15  .1000E+01   16  .0000E+00
10033         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
               .0000E+00   23  .0000E+00   24  .0000E+00
10034                                                DAY OF WEEK = SATURDAY
10035          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .0000E+00
10036          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
               .0000E+00   15  .0000E+00   16  .0000E+00
10037         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
               .0000E+00   23  .0000E+00   24  .0000E+00
10038                                                DAY OF WEEK = SUNDAY
10039          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .0000E+00
10040          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
               .0000E+00   15  .0000E+00   16  .0000E+00
10041         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
               .0000E+00   23  .0000E+00   24  .0000E+00
10042  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10043       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
10044
                                      PAGE 213
10045       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10046
10047                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

```
                    WEEK (HRDOW) *
10048
10049    SOURCE ID = L0000196     ; SOURCE TYPE = VOLUME   :
10050     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10051    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
10052                                              DAY OF WEEK = WEEKDAY
10053       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10054       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10055      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10056                                              DAY OF WEEK = SATURDAY
10057       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10058       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10059      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10060                                              DAY OF WEEK = SUNDAY
10061       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10062       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10063      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10064    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
10065     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
10066
                                    PAGE 214
10067    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10068
10069                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10070
10071    SOURCE ID = L0000197     ; SOURCE TYPE = VOLUME   :
10072     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10073    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
10074                                              DAY OF WEEK = WEEKDAY
10075       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10076       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10077      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10078                                              DAY OF WEEK = SATURDAY
10079       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10080       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10081      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10082                                              DAY OF WEEK = SUNDAY
10083       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10084       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10085      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
```

10091 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
10092
10093 SOURCE ID = L0000198 ; SOURCE TYPE = VOLUME :
10094 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
10095 - - -

```
      .0000E+00   15  .0000E+00   16  .0000E+00
10125   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10126                                          DAY OF WEEK = SUNDAY
10127    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
10128    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
10129   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10130 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
10131  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
10132
                                PAGE 217
10133  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10134
10135                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
10136
10137  SOURCE ID = L0000200     ; SOURCE TYPE = VOLUME   :
10138   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
10139  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
10140                                          DAY OF WEEK = WEEKDAY
10141    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
10142    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
10143   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10144                                          DAY OF WEEK = SATURDAY
10145    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
10146    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
10147   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10148                                          DAY OF WEEK = SUNDAY
10149    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
10150    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
10151   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10152 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
10153  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
10154
                                PAGE 218
10155  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10156
10157                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
10158
10159  SOURCE ID = L0000201     ; SOURCE TYPE = VOLUME   :
10160   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
10161  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
10162                                          DAY OF WEEK = WEEKDAY
```

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10163       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10164       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10165      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10166                                              DAY OF WEEK = SATURDAY
10167       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10168       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10169      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10170                                              DAY OF WEEK = SUNDAY
10171       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10172       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10173      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10174  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10175   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10176
                                  PAGE 219
10177   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10178
10179                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
10180
10181   SOURCE ID = L0000202     ; SOURCE TYPE = VOLUME   :
10182    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
10183   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - - - -
10184                                              DAY OF WEEK = WEEKDAY
10185       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10186       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10187      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10188                                              DAY OF WEEK = SATURDAY
10189       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10190       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10191      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10192                                              DAY OF WEEK = SUNDAY
10193       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10194       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10195      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10196  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10197   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10198
                                  PAGE 220
10199   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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10200
10201                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10202
10203    SOURCE ID = L0000203     ; SOURCE TYPE = VOLUME   :
10204     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10205    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
10206                                                DAY OF WEEK = WEEKDAY
10207       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10208       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10209      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10210                                                DAY OF WEEK = SATURDAY
10211       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10212       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10213      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10214                                                DAY OF WEEK = SUNDAY
10215       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10216       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10217      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10218    FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
10219     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
10220
                                    PAGE 221
10221    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10222
10223                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10224
10225    SOURCE ID = L0000204     ; SOURCE TYPE = VOLUME   :
10226     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10227    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
10228                                                DAY OF WEEK = WEEKDAY
10229       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10230       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10231      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10232                                                DAY OF WEEK = SATURDAY
10233       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10234       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10235      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10236                                                DAY OF WEEK = SUNDAY
10237       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10238       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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10239      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10240   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
10241    *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
10242
                                    PAGE 222
10243    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10244
10245                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
10246
10247    SOURCE ID = L0000205     ; SOURCE TYPE = VOLUME   :
10248     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10249    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
10250                                                DAY OF WEEK = WEEKDAY
10251       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
10252       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
10253      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10254                                                DAY OF WEEK = SATURDAY
10255       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10256       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10257      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10258                                                DAY OF WEEK = SUNDAY
10259       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10260       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10261      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10262   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
10263    *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
10264
                                    PAGE 223
10265    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10266
10267                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
10268
10269    SOURCE ID = L0000206     ; SOURCE TYPE = VOLUME   :
10270     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10271    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
10272                                                DAY OF WEEK = WEEKDAY
10273       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
10274       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
10275      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10276                                                DAY OF WEEK = SATURDAY
10277       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
10278  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
10279 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
10280                                          DAY OF WEEK = SUNDAY
10281  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
10282  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
10283 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
10284 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
10285  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
10286
                                PAGE 224
10287  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10288
10289                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
10290
10291  SOURCE ID = L0000207     ; SOURCE TYPE = VOLUME   :
10292   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
10293  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
10294                                          DAY OF WEEK = WEEKDAY
10295  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
10296  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
10297 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
10298                                          DAY OF WEEK = SATURDAY
10299  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
10300  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
10301 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
10302                                          DAY OF WEEK = SUNDAY
10303  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
10304  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
10305 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
10306 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
10307  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
10308
                                PAGE 225
10309  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10310
10311                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
10312
10313  SOURCE ID = L0000208     ; SOURCE TYPE = VOLUME   :
10314   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
10315  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
     - - - - - - - - - - - - - - - - - - - - -
10316                                              DAY OF WEEK = WEEKDAY
10317       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10318       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10319      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10320                                              DAY OF WEEK = SATURDAY
10321       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10322       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10323      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10324                                              DAY OF WEEK = SUNDAY
10325       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10326       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10327      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10328  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10329   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10330
                                  PAGE 226
10331   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10332
10333                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
10334
10335   SOURCE ID = L0000209     ; SOURCE TYPE = VOLUME   :
10336    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
10337   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - - -
10338                                              DAY OF WEEK = WEEKDAY
10339       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10340       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10341      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10342                                              DAY OF WEEK = SATURDAY
10343       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10344       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10345      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10346                                              DAY OF WEEK = SUNDAY
10347       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10348       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10349      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10350  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10351   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10352
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000210 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000211 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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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10392       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10393      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10394    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
10395     *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
10396
                                      PAGE 229
10397     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10398
10399                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
10400
10401     SOURCE ID = L0000212     ; SOURCE TYPE = VOLUME   :
10402      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
10403     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          - - - - - - - - - - - - - - - - - - - -
10404                                                 DAY OF WEEK = WEEKDAY
10405       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10406       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10407      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10408                                                 DAY OF WEEK = SATURDAY
10409       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10410       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10411      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10412                                                 DAY OF WEEK = SUNDAY
10413       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10414       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10415      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10416    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
10417     *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
10418
                                      PAGE 230
10419     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10420
10421                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
10422
10423     SOURCE ID = L0000213     ; SOURCE TYPE = VOLUME   :
10424      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
10425     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          - - - - - - - - - - - - - - - - - - - -
10426                                                 DAY OF WEEK = WEEKDAY
10427       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10428       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10429      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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10430 DAY OF WEEK = SATURDAY
10431 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
10432 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
10433 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
10434 DAY OF WEEK = SUNDAY
10435 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
10436 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
10437 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
10438 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
10439 *** AERMET - VERSION 16216 *** *** 12:35:34
10440

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10441 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
10442
10443 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
10444
10445 SOURCE ID = L0000214 ; SOURCE TYPE = VOLUME :
10446 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
10447 - - -

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 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000217 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000218 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

10545 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
10546 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
10547 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
10548 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
10549 *** AERMET - VERSION 16216 *** *** ***
12:35:34
10550

PAGE 236
10551 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
10552
10553 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
10554
10555 SOURCE ID = L0000219 ; SOURCE TYPE = VOLUME :
10556 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
10557 - - -

```
10583      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10584                                              DAY OF WEEK = SATURDAY
10585       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10586       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10587      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10588                                              DAY OF WEEK = SUNDAY
10589       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10590       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10591      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10592  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10593   *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
10594
                                    PAGE 238
10595   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10596
10597                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
10598
10599   SOURCE ID = L0000221     ; SOURCE TYPE = VOLUME   :
10600    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
        SCALAR   HOUR   SCALAR   HOUR   SCALAR
10601   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
10602                                              DAY OF WEEK = WEEKDAY
10603       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
10604       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
10605      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10606                                              DAY OF WEEK = SATURDAY
10607       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10608       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10609      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10610                                              DAY OF WEEK = SUNDAY
10611       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10612       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10613      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10614  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10615   *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
10616
                                    PAGE 239
10617   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10618
10619                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
10620
```

```
 SOURCE ID = L0000222     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 240
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000223     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000224   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000225   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

SOURCE ID = L0000226 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00

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

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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

SOURCE ID = L0000227 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01

```
10736       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10737      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10738                                                DAY OF WEEK = SATURDAY
10739       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10740       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10741      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10742                                                DAY OF WEEK = SUNDAY
10743       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10744       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10745      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10746  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10747   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10748
                                    PAGE 245
10749   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10750
10751                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10752
10753   SOURCE ID = L0000228     ; SOURCE TYPE = VOLUME   :
10754    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
10755   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
10756                                                DAY OF WEEK = WEEKDAY
10757       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10758       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10759      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10760                                                DAY OF WEEK = SATURDAY
10761       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10762       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10763      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10764                                                DAY OF WEEK = SUNDAY
10765       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10766       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10767      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
10768  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10769   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10770
                                    PAGE 246
10771   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10772
10773                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

```
                    WEEK (HRDOW) *
10774
10775   SOURCE ID = L0000229     ; SOURCE TYPE = VOLUME   :
10776    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
10777   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
10778                                                DAY OF WEEK = WEEKDAY
10779      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
10780      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
10781     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10782                                                DAY OF WEEK = SATURDAY
10783      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10784      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10785     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10786                                                DAY OF WEEK = SUNDAY
10787      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10788      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10789     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10790   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
10791    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
10792
                                    PAGE 247
10793   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10794
10795                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10796
10797   SOURCE ID = L0000230     ; SOURCE TYPE = VOLUME   :
10798    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
10799   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
10800                                                DAY OF WEEK = WEEKDAY
10801      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
10802      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
10803     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10804                                                DAY OF WEEK = SATURDAY
10805      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10806      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10807     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10808                                                DAY OF WEEK = SUNDAY
10809      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
10810      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
10811     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
```

10816
10817 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
10818
10819 SOURCE ID = L0000231 ; SOURCE TYPE = VOLUME :
10820 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
10821 - - -

```
      .0000E+00   15  .0000E+00   16  .0000E+00
10851   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10852                                          DAY OF WEEK = SUNDAY
10853    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
10854    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
10855   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10856 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
10857  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
10858
                                PAGE 250
10859  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10860
10861                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
10862
10863  SOURCE ID = L0000233     ; SOURCE TYPE = VOLUME   :
10864   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
10865  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
10866                                          DAY OF WEEK = WEEKDAY
10867    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
10868    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
10869   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10870                                          DAY OF WEEK = SATURDAY
10871    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
10872    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
10873   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10874                                          DAY OF WEEK = SUNDAY
10875    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
10876    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
10877   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
10878 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
10879  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
10880
                                PAGE 251
10881  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10882
10883                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
10884
10885  SOURCE ID = L0000234     ; SOURCE TYPE = VOLUME   :
10886   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
10887  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
10888                                          DAY OF WEEK = WEEKDAY
```

```
10889       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10890       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10891      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10892                                                 DAY OF WEEK = SATURDAY
10893       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10894       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10895      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10896                                                 DAY OF WEEK = SUNDAY
10897       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10898       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10899      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10900  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10901   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10902
                                    PAGE 252
10903   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10904
10905                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10906
10907   SOURCE ID = L0000235     ; SOURCE TYPE = VOLUME   :
10908    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
        SCALAR   HOUR   SCALAR   HOUR   SCALAR
10909   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - - - -
10910                                                 DAY OF WEEK = WEEKDAY
10911       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10912       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10913      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10914                                                 DAY OF WEEK = SATURDAY
10915       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10916       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10917      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10918                                                 DAY OF WEEK = SUNDAY
10919       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10920       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10921      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10922  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
10923   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
10924
                                    PAGE 253
10925   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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10926
10927                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10928
10929    SOURCE ID = L0000236     ; SOURCE TYPE = VOLUME   :
10930     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10931    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
10932                                                DAY OF WEEK = WEEKDAY
10933       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10934       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10935      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10936                                                DAY OF WEEK = SATURDAY
10937       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10938       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10939      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10940                                                DAY OF WEEK = SUNDAY
10941       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10942       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10943      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10944    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
10945     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
10946
                                    PAGE 254
10947    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10948
10949                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
10950
10951    SOURCE ID = L0000237     ; SOURCE TYPE = VOLUME   :
10952     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
10953    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
10954                                                DAY OF WEEK = WEEKDAY
10955       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
10956       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
10957      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10958                                                DAY OF WEEK = SATURDAY
10959       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10960       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
10961      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10962                                                DAY OF WEEK = SUNDAY
10963       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
10964       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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10965      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
10966    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
10967       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
10968
                                       PAGE 255
10969       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10970
10971                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
10972
10973       SOURCE ID = L0000238     ; SOURCE TYPE = VOLUME   :
10974        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
10975       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
10976                                                 DAY OF WEEK = WEEKDAY
10977          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .1000E+01
10978          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
               .1000E+01   15  .1000E+01   16  .0000E+00
10979         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
10980                                                 DAY OF WEEK = SATURDAY
10981          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .0000E+00
10982          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
               .0000E+00   15  .0000E+00   16  .0000E+00
10983         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
10984                                                 DAY OF WEEK = SUNDAY
10985          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .0000E+00
10986          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
               .0000E+00   15  .0000E+00   16  .0000E+00
10987         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
10988    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
10989       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
10990
                                       PAGE 256
10991       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
10992
10993                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
10994
10995       SOURCE ID = L0000239     ; SOURCE TYPE = VOLUME   :
10996        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
10997       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
10998                                                 DAY OF WEEK = WEEKDAY
10999          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .1000E+01
11000          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
               .1000E+01   15  .1000E+01   16  .0000E+00
11001         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
11002                                                 DAY OF WEEK = SATURDAY
11003          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
11004    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11005   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11006                                          DAY OF WEEK = SUNDAY
11007    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
11008    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11009   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11010 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11011  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
11012
                                PAGE 257
11013  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11014
11015                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
11016
11017  SOURCE ID = L0000240     ; SOURCE TYPE = VOLUME   :
11018   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
11019  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
11020                                          DAY OF WEEK = WEEKDAY
11021    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
11022    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
11023   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11024                                          DAY OF WEEK = SATURDAY
11025    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
11026    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11027   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11028                                          DAY OF WEEK = SUNDAY
11029    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
11030    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11031   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11032 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11033  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
11034
                                PAGE 258
11035  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11036
11037                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
11038
11039  SOURCE ID = L0000241     ; SOURCE TYPE = VOLUME   :
11040   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
11041  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

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    - - - - - - - - - - - - - - - - - - - - -
11042                                                DAY OF WEEK = WEEKDAY
11043       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11044       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11045      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11046                                                DAY OF WEEK = SATURDAY
11047       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11048       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11049      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11050                                                DAY OF WEEK = SUNDAY
11051       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11052       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11053      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11054  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
11055       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
11056
                                    PAGE 259
11057       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11058
11059                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
11060
11061       SOURCE ID = L0000242     ; SOURCE TYPE = VOLUME   :
11062        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
11063       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - - -
11064                                                DAY OF WEEK = WEEKDAY
11065       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11066       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11067      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11068                                                DAY OF WEEK = SATURDAY
11069       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11070       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11071      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11072                                                DAY OF WEEK = SUNDAY
11073       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11074       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11075      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11076  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
11077       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
11078
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000243 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000244 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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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11118       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11119      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11120    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
11121     *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
11122
                                      PAGE 262
11123     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11124
11125                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
11126
11127     SOURCE ID = L0000245     ; SOURCE TYPE = VOLUME   :
11128      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
11129     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          - - - - - - - - - - - - - - - - - - - -
11130                                                 DAY OF WEEK = WEEKDAY
11131       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
11132       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
11133      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11134                                                 DAY OF WEEK = SATURDAY
11135       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11136       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11137      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11138                                                 DAY OF WEEK = SUNDAY
11139       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11140       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11141      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11142    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
11143     *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
11144
                                      PAGE 263
11145     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11146
11147                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
11148
11149     SOURCE ID = L0000246     ; SOURCE TYPE = VOLUME   :
11150      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
11151     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          - - - - - - - - - - - - - - - - - - - -
11152                                                 DAY OF WEEK = WEEKDAY
11153       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
11154       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
11155      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
```

11156 DAY OF WEEK = SATURDAY
11157 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
11158 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
11159 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
11160 DAY OF WEEK = SUNDAY
11161 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
11162 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
11163 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
11164 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
*** AERMET - VERSION 16216 ***
*** ***
12:35:34
11166
PAGE 264
11167 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
11168
11169 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
11170
11171 SOURCE ID = L0000247 ; SOURCE TYPE = VOLUME :
11172 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
11173 - - -

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

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

SOURCE ID = L0000250 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000251 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
11271       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11272       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11273      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11274    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
11275     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
11276
                                    PAGE 269
11277     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11278
11279                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
11280
11281     SOURCE ID = L0000252     ; SOURCE TYPE = VOLUME   :
11282      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
11283     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          - - - - - - - - - - - - - - - - - - - -
11284                                                 DAY OF WEEK = WEEKDAY
11285       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
11286       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
11287      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11288                                                 DAY OF WEEK = SATURDAY
11289       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11290       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11291      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11292                                                 DAY OF WEEK = SUNDAY
11293       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11294       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11295      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11296    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
11297     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
11298
                                    PAGE 270
11299     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11300
11301                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
11302
11303     SOURCE ID = L0000253     ; SOURCE TYPE = VOLUME   :
11304      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
11305     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          - - - - - - - - - - - - - - - - - - - -
11306                                                 DAY OF WEEK = WEEKDAY
11307       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
11308       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
```

```
11309      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11310                                              DAY OF WEEK = SATURDAY
11311       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11312       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11313      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11314                                              DAY OF WEEK = SUNDAY
11315       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11316       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11317      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11318  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
11319       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
11320
                                      PAGE 271
11321       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11322
11323                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
11324
11325       SOURCE ID = L0000254     ; SOURCE TYPE = VOLUME   :
11326        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
11327       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
11328                                              DAY OF WEEK = WEEKDAY
11329       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11330       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11331      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11332                                              DAY OF WEEK = SATURDAY
11333       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11334       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11335      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11336                                              DAY OF WEEK = SUNDAY
11337       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11338       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11339      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11340  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
11341       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
11342
                                      PAGE 272
11343       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11344
11345                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
11346
```

```
 SOURCE ID = L0000255     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 273
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000256     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000257   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000258   ; SOURCE TYPE = VOLUME   :

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

```
      .0000E+00   23  .0000E+00   24  .0000E+00
11424                                          DAY OF WEEK = SUNDAY
11425     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
11426     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
11427    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
11428 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11429  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
11430
                                PAGE 276
11431  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11432
11433                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
11434
11435  SOURCE ID = L0000259     ; SOURCE TYPE = VOLUME   :
11436   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
11437  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
11438                                          DAY OF WEEK = WEEKDAY
11439     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
11440     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
11441    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
11442                                          DAY OF WEEK = SATURDAY
11443     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
11444     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
11445    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
11446                                          DAY OF WEEK = SUNDAY
11447     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
11448     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
11449    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
11450 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11451  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
11452
                                PAGE 277
11453  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11454
11455                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
11456
11457  SOURCE ID = L0000260     ; SOURCE TYPE = VOLUME   :
11458   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
11459  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
11460                                          DAY OF WEEK = WEEKDAY
11461     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
```

```
11462       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
11463      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11464                                                 DAY OF WEEK = SATURDAY
11465       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11466       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11467      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11468                                                 DAY OF WEEK = SUNDAY
11469       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11470       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11471      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11472  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
11473   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
11474
                                    PAGE 278
11475   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11476
11477                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
11478
11479   SOURCE ID = L0000261     ; SOURCE TYPE = VOLUME   :
11480    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
        SCALAR   HOUR   SCALAR   HOUR   SCALAR
11481   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
11482                                                 DAY OF WEEK = WEEKDAY
11483       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
11484       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
11485      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11486                                                 DAY OF WEEK = SATURDAY
11487       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11488       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11489      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11490                                                 DAY OF WEEK = SUNDAY
11491       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11492       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11493      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
11494  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
11495   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
11496
                                    PAGE 279
11497   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11498
11499                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

```
                    WEEK (HRDOW) *
11500
11501   SOURCE ID = L0000262     ; SOURCE TYPE = VOLUME   :
11502    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
11503   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
11504                                                DAY OF WEEK = WEEKDAY
11505      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11506      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11507     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11508                                                DAY OF WEEK = SATURDAY
11509      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11510      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11511     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11512                                                DAY OF WEEK = SUNDAY
11513      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11514      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11515     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11516   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
11517    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
11518
                                  PAGE 280
11519   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11520
11521                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
11522
11523   SOURCE ID = L0000263     ; SOURCE TYPE = VOLUME   :
11524    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
11525   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
11526                                                DAY OF WEEK = WEEKDAY
11527      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11528      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11529     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11530                                                DAY OF WEEK = SATURDAY
11531      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11532      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11533     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11534                                                DAY OF WEEK = SUNDAY
11535      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11536      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11537     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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000264 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000265 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14					

.0000E+00 15 .0000E+00 16 .0000E+00
11577 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
11578 DAY OF WEEK = SUNDAY
11579 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
11580 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
11581 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
11582 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const *** 01/22/25
11583 *** AERMET - VERSION 16216 ***
*** ***
12:35:34
11584
PAGE 283
11585 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
11586
11587 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
11588
11589 SOURCE ID = L0000266 ; SOURCE TYPE = VOLUME :
11590 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
11591 - - -

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11615       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
11616       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
11617      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11618                                              DAY OF WEEK = SATURDAY
11619       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11620       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11621      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11622                                              DAY OF WEEK = SUNDAY
11623       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11624       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11625      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11626 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11627  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
11628
                                  PAGE 285
11629  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11630
11631                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
11632
11633  SOURCE ID = L0000268     ; SOURCE TYPE = VOLUME   :
11634   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
11635  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
11636                                              DAY OF WEEK = WEEKDAY
11637       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
11638       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
11639      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11640                                              DAY OF WEEK = SATURDAY
11641       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11642       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11643      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11644                                              DAY OF WEEK = SUNDAY
11645       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
11646       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
11647      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11648 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11649  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
11650
                                  PAGE 286
11651  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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11652
11653                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
11654
11655    SOURCE ID = L0000269     ; SOURCE TYPE = VOLUME   :
11656     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
11657    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
11658                                                DAY OF WEEK = WEEKDAY
11659       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11660       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11661      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11662                                                DAY OF WEEK = SATURDAY
11663       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11664       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11665      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11666                                                DAY OF WEEK = SUNDAY
11667       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11668       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11669      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11670    FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
11671     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
11672
                                    PAGE 287
11673    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11674
11675                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
11676
11677    SOURCE ID = L0000270     ; SOURCE TYPE = VOLUME   :
11678     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
11679    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
11680                                                DAY OF WEEK = WEEKDAY
11681       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11682       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11683      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11684                                                DAY OF WEEK = SATURDAY
11685       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11686       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11687      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11688                                                DAY OF WEEK = SUNDAY
11689       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11690       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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11691      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11692    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
11693     *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
11694
                                    PAGE 288
11695     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11696
11697                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
11698
11699     SOURCE ID = L0000271     ; SOURCE TYPE = VOLUME   :
11700      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
11701     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
11702                                                 DAY OF WEEK = WEEKDAY
11703        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11704        9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11705       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11706                                                 DAY OF WEEK = SATURDAY
11707        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11708        9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11709       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11710                                                 DAY OF WEEK = SUNDAY
11711        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11712        9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11713       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11714    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
11715     *** AERMET - VERSION  16216 ***
           ***                                                                    ***
           12:35:34
11716
                                    PAGE 289
11717     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11718
11719                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                            WEEK (HRDOW) *
11720
11721     SOURCE ID = L0000272     ; SOURCE TYPE = VOLUME   :
11722      HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
           SCALAR   HOUR   SCALAR   HOUR   SCALAR
11723     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
11724                                                 DAY OF WEEK = WEEKDAY
11725        1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
11726        9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
11727       17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
11728                                                 DAY OF WEEK = SATURDAY
11729        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
11730      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11731     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11732                                          DAY OF WEEK = SUNDAY
11733      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
11734      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11735     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11736  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11737      *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
11738
                                  PAGE 290
11739      *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11740
11741                        * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
11742
11743      SOURCE ID = L0000273     ; SOURCE TYPE = VOLUME   :
11744       HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
11745      - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
11746                                          DAY OF WEEK = WEEKDAY
11747         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
11748      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
11749     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11750                                          DAY OF WEEK = SATURDAY
11751      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
11752      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11753     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11754                                          DAY OF WEEK = SUNDAY
11755      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
11756      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
11757     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
11758  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
11759      *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
11760
                                  PAGE 291
11761      *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
11762
11763                        * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                           WEEK (HRDOW) *
11764
11765      SOURCE ID = L0000274     ; SOURCE TYPE = VOLUME   :
11766       HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
11767      - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - - -
11768 DAY OF WEEK = WEEKDAY
11769 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
11770 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00
11771 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
11772 DAY OF WEEK = SATURDAY
11773 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
11774 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
11775 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
11776 DAY OF WEEK = SUNDAY
11777 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
11778 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
11779 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
11780 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
11781 *** AERMET - VERSION 16216 *** *** ***
12:35:34
11782

PAGE 292
11783 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
11784
11785 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
11786
11787 SOURCE ID = L0000275 ; SOURCE TYPE = VOLUME :
11788 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
11789 - - - - - - - - - - - - - - - - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000276 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000277 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000278 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000279 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

```
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE 297
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000280     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 12:35:34

                            PAGE 298
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000281     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000283 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000284 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

```
11997      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
11998      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
11999     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12000  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
12001   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
12002
                                    PAGE 302
12003   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12004
12005                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12006
12007   SOURCE ID = L0000285     ; SOURCE TYPE = VOLUME   :
12008    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
12009   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
12010                                              DAY OF WEEK = WEEKDAY
12011      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
12012      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
12013     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12014                                              DAY OF WEEK = SATURDAY
12015      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12016      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12017     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12018                                              DAY OF WEEK = SUNDAY
12019      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12020      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12021     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12022  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
12023   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
12024
                                    PAGE 303
12025   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12026
12027                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12028
12029   SOURCE ID = L0000286     ; SOURCE TYPE = VOLUME   :
12030    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
12031   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
12032                                              DAY OF WEEK = WEEKDAY
12033      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
12034      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
```

```
12035      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12036                                              DAY OF WEEK = SATURDAY
12037       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12038       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12039      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12040                                              DAY OF WEEK = SUNDAY
12041       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12042       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12043      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12044  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
12045   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
12046
                                  PAGE 304
12047   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12048
12049                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12050
12051   SOURCE ID = L0000287     ; SOURCE TYPE = VOLUME   :
12052    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
        SCALAR   HOUR   SCALAR   HOUR   SCALAR
12053   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
12054                                              DAY OF WEEK = WEEKDAY
12055       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
12056       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
12057      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12058                                              DAY OF WEEK = SATURDAY
12059       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12060       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12061      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12062                                              DAY OF WEEK = SUNDAY
12063       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12064       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12065      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12066  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
12067   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
12068
                                  PAGE 305
12069   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12070
12071                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12072
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 SOURCE ID = L0000288     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 306
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000289     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000290   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000291   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 309
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000292     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 310
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000293     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
```

```
12188       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12189      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12190                                                DAY OF WEEK = SATURDAY
12191       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12192       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12193      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12194                                                DAY OF WEEK = SUNDAY
12195       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12196       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12197      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12198 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12199  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12200
                                  PAGE 311
12201  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12202
12203                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
12204
12205  SOURCE ID = L0000294     ; SOURCE TYPE = VOLUME   :
12206   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
12207  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
12208                                                DAY OF WEEK = WEEKDAY
12209       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12210       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12211      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12212                                                DAY OF WEEK = SATURDAY
12213       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12214       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12215      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12216                                                DAY OF WEEK = SUNDAY
12217       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12218       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12219      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12220 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12221  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12222
                                  PAGE 312
12223  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12224
12225                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

```
                    WEEK (HRDOW) *
12226
12227   SOURCE ID = L0000295     ; SOURCE TYPE = VOLUME   :
12228    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
        SCALAR   HOUR   SCALAR   HOUR   SCALAR
12229   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
12230                                                DAY OF WEEK = WEEKDAY
12231      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .1000E+01
12232      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
        .1000E+01   15  .1000E+01   16  .0000E+00
12233     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
12234                                                DAY OF WEEK = SATURDAY
12235      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .0000E+00
12236      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
12237     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
12238                                                DAY OF WEEK = SUNDAY
12239      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .0000E+00
12240      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
12241     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
12242   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
12243    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
12244
                                  PAGE 313
12245   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12246
12247                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
12248
12249   SOURCE ID = L0000296     ; SOURCE TYPE = VOLUME   :
12250    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
        SCALAR   HOUR   SCALAR   HOUR   SCALAR
12251   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
12252                                                DAY OF WEEK = WEEKDAY
12253      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .1000E+01
12254      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
        .1000E+01   15  .1000E+01   16  .0000E+00
12255     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
12256                                                DAY OF WEEK = SATURDAY
12257      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .0000E+00
12258      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
12259     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
12260                                                DAY OF WEEK = SUNDAY
12261      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
        .0000E+00    7  .0000E+00    8  .0000E+00
12262      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
12263     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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000297 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000298 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.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
12303   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
12304                                          DAY OF WEEK = SUNDAY
12305    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
12306    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
12307   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
12308 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
12309  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12310
                                PAGE 316
12311  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12312
12313                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
12314
12315  SOURCE ID = L0000299     ; SOURCE TYPE = VOLUME   :
12316   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
12317  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
12318                                          DAY OF WEEK = WEEKDAY
12319    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
12320    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
12321   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
12322                                          DAY OF WEEK = SATURDAY
12323    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
12324    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
12325   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
12326                                          DAY OF WEEK = SUNDAY
12327    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
12328    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
12329   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
12330 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
12331  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12332
                                PAGE 317
12333  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12334
12335                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
12336
12337  SOURCE ID = L0000300     ; SOURCE TYPE = VOLUME   :
12338   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
12339  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
12340                                          DAY OF WEEK = WEEKDAY
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12341       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12342       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12343      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12344                                                DAY OF WEEK = SATURDAY
12345       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12346       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12347      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12348                                                DAY OF WEEK = SUNDAY
12349       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12350       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12351      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12352 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12353  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12354
                                  PAGE 318
12355  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12356
12357                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
12358
12359  SOURCE ID = L0000301     ; SOURCE TYPE = VOLUME   :
12360   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
12361  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
12362                                                DAY OF WEEK = WEEKDAY
12363       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12364       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12365      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12366                                                DAY OF WEEK = SATURDAY
12367       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12368       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12369      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12370                                                DAY OF WEEK = SUNDAY
12371       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12372       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12373      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12374 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12375  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12376
                                  PAGE 319
12377  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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12378
12379                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
12380
12381    SOURCE ID = L0000302     ; SOURCE TYPE = VOLUME   :
12382     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
12383    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
12384                                                DAY OF WEEK = WEEKDAY
12385       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12386       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12387      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12388                                                DAY OF WEEK = SATURDAY
12389       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12390       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12391      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12392                                                DAY OF WEEK = SUNDAY
12393       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12394       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12395      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12396    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
12397     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
12398
                                    PAGE 320
12399    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12400
12401                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
12402
12403    SOURCE ID = L0000303     ; SOURCE TYPE = VOLUME   :
12404     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
12405    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
12406                                                DAY OF WEEK = WEEKDAY
12407       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12408       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12409      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12410                                                DAY OF WEEK = SATURDAY
12411       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12412       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12413      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12414                                                DAY OF WEEK = SUNDAY
12415       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12416       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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12417      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12418    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
12419       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
12420
                                       PAGE 321
12421       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12422
12423                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
12424
12425       SOURCE ID = L0000304     ; SOURCE TYPE = VOLUME   :
12426        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
12427       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
12428                                                 DAY OF WEEK = WEEKDAY
12429         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .1000E+01
12430         9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
              .1000E+01   15  .1000E+01   16  .0000E+00
12431        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
             .0000E+00   23  .0000E+00   24  .0000E+00
12432                                                 DAY OF WEEK = SATURDAY
12433         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .0000E+00
12434         9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
              .0000E+00   15  .0000E+00   16  .0000E+00
12435        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
             .0000E+00   23  .0000E+00   24  .0000E+00
12436                                                 DAY OF WEEK = SUNDAY
12437         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .0000E+00
12438         9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
              .0000E+00   15  .0000E+00   16  .0000E+00
12439        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
             .0000E+00   23  .0000E+00   24  .0000E+00
12440    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
12441       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
12442
                                       PAGE 322
12443       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12444
12445                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
12446
12447       SOURCE ID = L0000305     ; SOURCE TYPE = VOLUME   :
12448        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
12449       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
12450                                                 DAY OF WEEK = WEEKDAY
12451         1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
              .0000E+00    7  .0000E+00    8  .1000E+01
12452         9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
              .1000E+01   15  .1000E+01   16  .0000E+00
12453        17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
             .0000E+00   23  .0000E+00   24  .0000E+00
12454                                                 DAY OF WEEK = SATURDAY
12455         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
12456  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
12457 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
12458                                          DAY OF WEEK = SUNDAY
12459  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
12460  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
12461 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
12462 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12463  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12464
                                PAGE 323
12465  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12466
12467                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
12468
12469  SOURCE ID = L0000306     ; SOURCE TYPE = VOLUME   :
12470   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
12471  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
12472                                          DAY OF WEEK = WEEKDAY
12473  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
12474  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
12475 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
12476                                          DAY OF WEEK = SATURDAY
12477  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
12478  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
12479 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
12480                                          DAY OF WEEK = SUNDAY
12481  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
12482  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
12483 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
12484 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12485  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12486
                                PAGE 324
12487  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12488
12489                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
12490
12491  SOURCE ID = L0000307     ; SOURCE TYPE = VOLUME   :
12492   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
12493  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

- -
12494 DAY OF WEEK = WEEKDAY
12495 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
12496 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00
12497 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
12498 DAY OF WEEK = SATURDAY
12499 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
12500 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
12501 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
12502 DAY OF WEEK = SUNDAY
12503 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
12504 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
12505 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
12506 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
12507 *** AERMET - VERSION 16216 *** *** ***
12:35:34
12508

PAGE 325
12509 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
12510
12511 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
12512
12513 SOURCE ID = L0000308 ; SOURCE TYPE = VOLUME :
12514 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
12515 - - - - - - - - - - - - - - - - - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000309 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000310 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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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12570       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12571      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12572   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
12573    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
12574
                                    PAGE 328
12575    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12576
12577                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12578
12579    SOURCE ID = L0000311     ; SOURCE TYPE = VOLUME   :
12580     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
12581    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
12582                                                DAY OF WEEK = WEEKDAY
12583       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12584       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12585      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12586                                                DAY OF WEEK = SATURDAY
12587       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12588       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12589      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12590                                                DAY OF WEEK = SUNDAY
12591       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12592       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12593      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12594   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
12595    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
12596
                                    PAGE 329
12597    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12598
12599                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12600
12601    SOURCE ID = L0000312     ; SOURCE TYPE = VOLUME   :
12602     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
12603    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
12604                                                DAY OF WEEK = WEEKDAY
12605       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12606       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12607      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000313     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .1000E+01
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***
 12:35:34

                              PAGE 331
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000314     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

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 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - -
```

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

SOURCE ID = L0000316 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000317 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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12723       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12724       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12725      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12726   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
12727    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
12728
                                    PAGE 335
12729    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12730
12731                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12732
12733    SOURCE ID = L0000318     ; SOURCE TYPE = VOLUME   :
12734     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
12735    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
12736                                                DAY OF WEEK = WEEKDAY
12737       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12738       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12739      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12740                                                DAY OF WEEK = SATURDAY
12741       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12742       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12743      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12744                                                DAY OF WEEK = SUNDAY
12745       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12746       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12747      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
12748   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
12749    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
12750
                                    PAGE 336
12751    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12752
12753                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12754
12755    SOURCE ID = L0000319     ; SOURCE TYPE = VOLUME   :
12756     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
12757    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
12758                                                DAY OF WEEK = WEEKDAY
12759       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12760       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
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12761      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12762                                              DAY OF WEEK = SATURDAY
12763       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12764       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12765      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12766                                              DAY OF WEEK = SUNDAY
12767       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12768       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12769      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12770  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
12771   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
12772
                                  PAGE 337
12773   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12774
12775                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12776
12777   SOURCE ID = L0000320     ; SOURCE TYPE = VOLUME   :
12778    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
        SCALAR   HOUR   SCALAR   HOUR   SCALAR
12779  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
12780                                              DAY OF WEEK = WEEKDAY
12781       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
12782       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
12783      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12784                                              DAY OF WEEK = SATURDAY
12785       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12786       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12787      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12788                                              DAY OF WEEK = SUNDAY
12789       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12790       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12791      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12792  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
12793   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
12794
                                  PAGE 338
12795   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12796
12797                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                          WEEK (HRDOW) *
12798
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 SOURCE ID = L0000321     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 339
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000322     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
```

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

SOURCE ID = L0000323   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000324   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 342
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000325     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        01/22/25
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 12:35:34

                            PAGE 343
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 SOURCE ID = L0000326     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .1000E+01
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12914       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12915      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12916                                                DAY OF WEEK = SATURDAY
12917       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12918       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12919      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12920                                                DAY OF WEEK = SUNDAY
12921       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12922       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12923      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12924 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12925  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12926
                                  PAGE 344
12927  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12928
12929                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
12930
12931  SOURCE ID = L0000327     ; SOURCE TYPE = VOLUME   :
12932   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
12933  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
12934                                                DAY OF WEEK = WEEKDAY
12935       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
12936       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
12937      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12938                                                DAY OF WEEK = SATURDAY
12939       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12940       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12941      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12942                                                DAY OF WEEK = SUNDAY
12943       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
12944       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
12945      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12946 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
12947  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
12948
                                  PAGE 345
12949  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12950
12951                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
```

```
                    WEEK (HRDOW) *
12952
12953   SOURCE ID = L0000328     ; SOURCE TYPE = VOLUME   :
12954    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
12955   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
12956                                                DAY OF WEEK = WEEKDAY
12957      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
12958      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
12959     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12960                                                DAY OF WEEK = SATURDAY
12961      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12962      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12963     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12964                                                DAY OF WEEK = SUNDAY
12965      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12966      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12967     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12968   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
12969    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
12970
                                  PAGE 346
12971   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
12972
12973                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
12974
12975   SOURCE ID = L0000329     ; SOURCE TYPE = VOLUME   :
12976    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
         SCALAR   HOUR   SCALAR   HOUR   SCALAR
12977   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        - - - - - - - - - - - - - - - - - - - -
12978                                                DAY OF WEEK = WEEKDAY
12979      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .1000E+01
12980      9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
           .1000E+01   15  .1000E+01   16  .0000E+00
12981     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12982                                                DAY OF WEEK = SATURDAY
12983      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12984      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12985     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
12986                                                DAY OF WEEK = SUNDAY
12987      1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
           .0000E+00    7  .0000E+00    8  .0000E+00
12988      9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
           .0000E+00   15  .0000E+00   16  .0000E+00
12989     17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
```

12994
12995 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
12996
12997 SOURCE ID = L0000330 ; SOURCE TYPE = VOLUME :
12998 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
12999 - - -

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      .0000E+00   15  .0000E+00   16  .0000E+00
13029   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13030                                          DAY OF WEEK = SUNDAY
13031    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
13032    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
13033   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13034 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
13035  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
13036
                                PAGE 349
13037  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13038
13039                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
13040
13041  SOURCE ID = L0000332     ; SOURCE TYPE = VOLUME   :
13042   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
13043  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
13044                                          DAY OF WEEK = WEEKDAY
13045    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
13046    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
13047   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13048                                          DAY OF WEEK = SATURDAY
13049    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
13050    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
13051   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13052                                          DAY OF WEEK = SUNDAY
13053    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
13054    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
13055   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13056 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        01/22/25
13057  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
13058
                                PAGE 350
13059  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13060
13061                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
13062
13063  SOURCE ID = L0000333     ; SOURCE TYPE = VOLUME   :
13064   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
13065  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - - - -
13066                                          DAY OF WEEK = WEEKDAY
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13067 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .1000E+01
13068 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .0000E+00
13069 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
13070 DAY OF WEEK = SATURDAY
13071 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
13072 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
13073 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
13074 DAY OF WEEK = SUNDAY
13075 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
13076 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
13077 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
13078 FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25
13079 *** AERMET - VERSION 16216 *** *** *** 12:35:34
13080

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13081 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
13082
13083 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *
13084
13085 SOURCE ID = L0000334 ; SOURCE TYPE = VOLUME :
13086 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
13087 - - -

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13104
13105                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
13106
13107    SOURCE ID = L0000335     ; SOURCE TYPE = VOLUME   :
13108     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
13109    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
13110                                                DAY OF WEEK = WEEKDAY
13111       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
13112       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
13113      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
13114                                                DAY OF WEEK = SATURDAY
13115       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13116       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
13117      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
13118                                                DAY OF WEEK = SUNDAY
13119       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13120       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
13121      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
13122    FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
13123     *** AERMET - VERSION  16216 ***
          ***                                                                    ***
          12:35:34
13124
                                    PAGE 353
13125    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13126
13127                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                         WEEK (HRDOW) *
13128
13129    SOURCE ID = L0000336     ; SOURCE TYPE = VOLUME   :
13130     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
          SCALAR   HOUR   SCALAR   HOUR   SCALAR
13131    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - - -
13132                                                DAY OF WEEK = WEEKDAY
13133       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
13134       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
13135      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
13136                                                DAY OF WEEK = SATURDAY
13137       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13138       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
13139      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
13140                                                DAY OF WEEK = SUNDAY
13141       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13142       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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13143      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
           .0000E+00   23  .0000E+00   24  .0000E+00
13144    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
13145       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
13146
                                       PAGE 354
13147       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13148
13149                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
13150
13151       SOURCE ID = L0000337     ; SOURCE TYPE = VOLUME   :
13152        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
13153       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
13154                                                 DAY OF WEEK = WEEKDAY
13155          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .1000E+01
13156          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
               .1000E+01   15  .1000E+01   16  .0000E+00
13157         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
13158                                                 DAY OF WEEK = SATURDAY
13159          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .0000E+00
13160          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
               .0000E+00   15  .0000E+00   16  .0000E+00
13161         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
13162                                                 DAY OF WEEK = SUNDAY
13163          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .0000E+00
13164          9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
               .0000E+00   15  .0000E+00   16  .0000E+00
13165         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
13166    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
13167       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
13168
                                       PAGE 355
13169       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13170
13171                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
13172
13173       SOURCE ID = L0000338     ; SOURCE TYPE = VOLUME   :
13174        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
13175       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
            - - - - - - - - - - - - - - - - - - - -
13176                                                 DAY OF WEEK = WEEKDAY
13177          1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
               .0000E+00    7  .0000E+00    8  .1000E+01
13178          9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
               .1000E+01   15  .1000E+01   16  .0000E+00
13179         17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
              .0000E+00   23  .0000E+00   24  .0000E+00
13180                                                 DAY OF WEEK = SATURDAY
13181          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
13182    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
13183   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13184                                          DAY OF WEEK = SUNDAY
13185    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
13186    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
13187   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13188 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
13189  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
13190
                                PAGE 356
13191  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13192
13193                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
13194
13195  SOURCE ID = L0000339     ; SOURCE TYPE = VOLUME   :
13196   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
13197  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
13198                                          DAY OF WEEK = WEEKDAY
13199    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .1000E+01
13200    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .0000E+00
13201   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13202                                          DAY OF WEEK = SATURDAY
13203    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
13204    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
13205   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13206                                          DAY OF WEEK = SUNDAY
13207    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
13208    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
13209   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
13210 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        01/22/25
13211  *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       12:35:34
13212
                                PAGE 357
13213  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13214
13215                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
13216
13217  SOURCE ID = L0000340     ; SOURCE TYPE = VOLUME   :
13218   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
13219  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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    - - - - - - - - - - - - - - - - - - - - -
13220                                                DAY OF WEEK = WEEKDAY
13221       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
13222       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
13223      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
13224                                                DAY OF WEEK = SATURDAY
13225       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13226       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
13227      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
13228                                                DAY OF WEEK = SUNDAY
13229       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13230       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
13231      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
13232  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
13233       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
13234
                                    PAGE 358
13235       *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13236
13237                         * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                              WEEK (HRDOW) *
13238
13239       SOURCE ID = L0000341     ; SOURCE TYPE = VOLUME   :
13240        HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
            SCALAR   HOUR   SCALAR   HOUR   SCALAR
13241       - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - - -
13242                                                DAY OF WEEK = WEEKDAY
13243       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .1000E+01
13244       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
            .1000E+01   15  .1000E+01   16  .0000E+00
13245      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
13246                                                DAY OF WEEK = SATURDAY
13247       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13248       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
13249      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
13250                                                DAY OF WEEK = SUNDAY
13251       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
            .0000E+00    7  .0000E+00    8  .0000E+00
13252       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
            .0000E+00   15  .0000E+00   16  .0000E+00
13253      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
            .0000E+00   23  .0000E+00   24  .0000E+00
13254  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
13255       *** AERMET - VERSION  16216 ***
            ***                                                                    ***
            12:35:34
13256
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

SOURCE ID = L0000342 ; SOURCE TYPE = VOLUME :

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

FF *** AERMOD - VERSION 23132 *** *** C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const *** 01/22/25

*** AERMET - VERSION 16216 ***

*** ***

12:35:34

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(407197.4, 3740354.5, 18.0, 18.0, 0.0); (407183.2, 3740347.1, 18.2, 18.2, 0.0);
(407241.7, 3740347.3, 18.0, 18.0, 0.0); (407108.0, 3740378.6, 18.1, 18.1, 0.0);
(407224.1, 3740354.5, 18.0, 18.0, 0.0); (407152.0, 3740351.8, 18.5, 18.5, 0.0);
(407137.0, 3740351.2, 18.7, 18.7, 0.0); (407159.6, 3740296.7, 18.8, 18.8, 0.0);
(407297.7, 3740355.1, 18.2, 18.2, 0.0); (407311.2, 3740228.0, 19.0, 19.0, 0.0);
(407298.0, 3740416.9, 18.0, 18.0, 0.0); (407263.5, 3740425.1, 18.0, 18.0, 0.0);
(407263.7, 3740448.3, 17.8, 17.8, 0.0); (407253.5, 3740517.7, 17.1, 17.1, 0.0);
(407327.6, 3740465.7, 17.9, 17.9, 0.0); (407320.0, 3740498.7, 17.6, 17.6, 0.0);
(407304.9, 3740552.2, 17.2, 17.2, 0.0); (407237.9, 3740641.2, 17.0, 17.0, 0.0);
(407278.5, 3740698.2, 17.0, 17.0, 0.0); (407244.5, 3740705.8, 17.0, 17.0, 0.0);
(407239.7, 3740783.1, 17.0, 17.0, 0.0); (407288.5,

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                3740769.4,      17.0,      17.0,       0.0);
13296           ( 407312.6, 3740721.7,      17.1,      17.1,       0.0);          ( 407365.6,
                3740769.2,      17.7,      17.7,       0.0);
13297           ( 407462.2, 3740703.7,      18.3,      18.3,       0.0);          ( 407432.1,
                3740769.9,      18.0,      18.0,       0.0);
13298           ( 407470.1, 3740781.3,      18.4,      18.4,       0.0);          ( 407542.4,
                3740786.3,      19.0,      19.0,       0.0);
13299           ( 407549.8, 3740722.7,      19.0,      19.0,       0.0);          ( 407600.2,
                3740718.5,      19.1,      19.1,       0.0);
13300           ( 407625.8, 3740721.4,      19.4,      19.4,       0.0);          ( 407594.9,
                3740777.1,      19.0,      19.0,       0.0);
13301           ( 407632.6, 3740776.5,      19.5,      19.5,       0.0);          ( 407648.5,
                3740721.1,      19.7,      19.7,       0.0);
13302           ( 407696.0, 3740777.6,      20.3,      20.3,       0.0);          ( 407734.2,
                3740777.3,      20.7,      20.7,       0.0);
13303           ( 407687.5, 3740721.1,      20.0,      20.0,       0.0);          ( 407708.6,
                3740721.9,      20.1,      20.1,       0.0);
13304           ( 407747.2, 3740719.3,      20.2,      20.2,       0.0);          ( 407826.9,
                3740725.1,      20.0,      20.0,       0.0);
13305           ( 407834.0, 3740775.2,      20.0,      20.0,       0.0);          ( 407890.2,
                3740776.0,      20.0,      20.0,       0.0);
13306           ( 408036.6, 3740709.8,      19.2,      19.2,       0.0);          ( 407940.1,
                3740773.1,      20.0,      20.0,       0.0);
13307           ( 408001.0, 3740769.9,      19.7,      19.7,       0.0);          ( 408098.9,
                3740786.0,      19.0,      19.0,       0.0);
13308           ( 408037.5, 3740766.8,      19.2,      19.2,       0.0);          ( 408143.3,
                3740705.8,      19.0,      19.0,       0.0);
13309           ( 408047.5, 3740685.0,      19.1,      19.1,       0.0);          ( 408047.7,
                3740646.4,      19.0,      19.0,       0.0);
13310           ( 408114.8, 3740578.4,      19.0,      19.0,       0.0);          ( 408044.0,
                3740580.2,      19.0,      19.0,       0.0);
13311           ( 408003.4, 3740456.2,      19.0,      19.0,       0.0);          ( 408103.4,
                3740460.9,      19.0,      19.0,       0.0);
13312           ( 408116.1, 3740373.9,      19.0,      19.0,       0.0);          ( 408040.3,
                3740381.5,      19.1,      19.1,       0.0);
13313           ( 408035.6, 3740363.0,      19.1,      19.1,       0.0);          ( 408037.7,
                3740330.1,      19.2,      19.2,       0.0);
13314           ( 408108.7, 3740314.5,      19.0,      19.0,       0.0);          ( 408036.1,
                3740271.2,      19.2,      19.2,       0.0);
13315           ( 408036.9, 3740242.4,      19.2,      19.2,       0.0);          ( 408101.0,
                3740277.0,      19.0,      19.0,       0.0);
13316           ( 408103.9, 3740244.0,      19.0,      19.0,       0.0);          ( 408101.6,
                3740214.5,      19.0,      19.0,       0.0);
13317           ( 408100.5, 3740178.1,      19.0,      19.0,       0.0);          ( 408102.1,
                3740150.6,      19.0,      19.0,       0.0);
13318           ( 408102.9, 3740094.4,      18.6,      18.6,       0.0);          ( 408036.9,
                3740194.4,      19.1,      19.1,       0.0);
13319           ( 408038.2, 3740166.4,      19.0,      19.0,       0.0);          ( 408037.5,
                3740106.0,      19.0,      19.0,       0.0);
13320           ( 408037.5, 3740075.7,      19.0,      19.0,       0.0);          ( 408050.6,
                3740016.8,      18.6,      18.6,       0.0);
13321           ( 408116.3, 3740034.5,      18.1,      18.1,       0.0);          ( 408099.2,
                3739975.9,      18.1,      18.1,       0.0);
13322           ( 408050.9, 3739972.5,      18.1,      18.1,       0.0);          ( 408031.6,
                3739915.5,      17.5,      17.5,       0.0);
13323           ( 408098.7, 3739906.5,      17.4,      17.4,       0.0);          ( 408032.2,
                3739895.7,      17.3,      17.3,       0.0);
13324           ( 408029.8, 3739877.8,      17.1,      17.1,       0.0);          ( 408033.0,
                3739858.0,      17.0,      17.0,       0.0);
13325           ( 408034.5, 3739829.2,      17.0,      17.0,       0.0);          ( 408118.5,
                3739870.1,      17.0,      17.0,       0.0);
13326           ( 408107.4, 3739824.5,      17.0,      17.0,       0.0);          ( 408099.2,
                3739716.3,      16.3,      16.3,       0.0);
13327           ( 408106.8, 3739752.9,      16.7,      16.7,       0.0);          ( 408100.8,
                3739693.8,      16.1,      16.1,       0.0);
13328           ( 408038.2, 3739768.8,      16.9,      16.9,       0.0);          ( 408033.0,
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     3739817.3,      17.0,      17.0,       0.0);
13329    ( 408036.1, 3739727.9,      16.5,      16.5,       0.0);         ( 408035.9,
     3739675.6,      16.0,      16.0,       0.0);
13330 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        01/22/25
13331  *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      12:35:34
13332
13333  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13334
13335                                              *** DISCRETE CARTESIAN RECEPTORS ***
13336                                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
13337                                                          (METERS)
13338
13339    ( 408038.0, 3739639.5,      16.0,      16.0,       0.0);         ( 408037.7,
     3739589.6,      16.0,      16.0,       0.0);
13340    ( 408032.2, 3739560.8,      16.0,      16.0,       0.0);         ( 408102.4,
     3739661.1,      16.0,      16.0,       0.0);
13341    ( 408104.5, 3739623.9,      16.0,      16.0,       0.0);         ( 408119.5,
     3739600.2,      16.0,      16.0,       0.0);
13342    ( 408111.3, 3739580.4,      16.0,      16.0,       0.0);         ( 408109.8,
     3739556.6,      16.0,      16.0,       0.0);
13343    ( 408095.8, 3739518.4,      16.0,      16.0,       0.0);         ( 408049.1,
     3739521.3,      16.0,      16.0,       0.0);
13344    ( 408030.3, 3739469.3,      15.7,      15.7,       0.0);         ( 408051.4,
     3739431.8,      15.3,      15.3,       0.0);
13345    ( 408048.8, 3739413.1,      15.1,      15.1,       0.0);         ( 408120.0,
     3739487.2,      15.9,      15.9,       0.0);
13346    ( 408143.3, 3739399.1,      15.0,      15.0,       0.0);         ( 408113.7,
     3739342.9,      15.0,      15.0,       0.0);
13347    ( 408036.1, 3739355.3,      15.0,      15.0,       0.0);         ( 408044.3,
     3739318.9,      15.0,      15.0,       0.0);
13348    ( 408094.7, 3739318.3,      15.0,      15.0,       0.0);         ( 408030.6,
     3739231.0,      15.0,      15.0,       0.0);
13349    ( 408044.8, 3739253.9,      15.0,      15.0,       0.0);         ( 408042.5,
     3739166.9,      15.0,      15.0,       0.0);
13350    ( 408100.5, 3739231.5,      15.0,      15.0,       0.0);         ( 408095.2,
     3739266.6,      15.0,      15.0,       0.0);
13351    ( 408153.3, 3739163.2,      15.0,      15.0,       0.0);         ( 408102.4,
     3739115.7,      15.0,      15.0,       0.0);
13352    ( 408031.1, 3739101.4,      15.0,      15.0,       0.0);         ( 408024.7,
     3738983.5,      15.0,      15.0,       0.0);
13353    ( 408020.6, 3738926.4,      15.0,      15.0,       0.0);         ( 408110.6,
     3738949.7,      15.0,      15.0,       0.0);
13354    ( 408105.0, 3738895.1,      15.0,      15.0,       0.0);         ( 408020.2,
     3738908.3,      15.0,      15.0,       0.0);
13355    ( 408109.3, 3738857.2,      15.0,      15.0,       0.0);         ( 408042.5,
     3738847.7,      15.0,      15.0,       0.0);
13356    ( 408045.0, 3738755.0,      15.0,      15.0,       0.0);         ( 408109.3,
     3738720.3,      15.0,      15.0,       0.0);
13357    ( 408050.9, 3738693.4,      15.0,      15.0,       0.0);         ( 408054.4,
     3738592.6,      15.0,      15.0,       0.0);
13358    ( 408101.3, 3738540.1,      15.0,      15.0,       0.0);         ( 408053.6,
     3738503.3,      15.0,      15.0,       0.0);
13359    ( 408053.4, 3738429.2,      15.0,      15.0,       0.0);         ( 408118.2,
     3738418.1,      15.0,      15.0,       0.0);
13360    ( 408052.5, 3738369.7,      15.0,      15.0,       0.0);         ( 408134.3,
     3738381.3,      15.0,      15.0,       0.0);
13361    ( 408136.0, 3738350.6,      15.0,      15.0,       0.0);         ( 408044.5,
     3738264.6,      15.0,      15.0,       0.0);
13362    ( 408117.3, 3738288.2,      15.0,      15.0,       0.0);         ( 408119.0,
     3738242.1,      15.0,      15.0,       0.0);
13363    ( 408043.7, 3738177.3,      15.0,      15.0,       0.0);         ( 408038.7,
     3738205.1,      15.0,      15.0,       0.0);
```

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13364       ( 408105.8, 3738177.3,      15.0,      15.0,       0.0);         ( 408100.9,
            3738142.2,      15.0,      15.0,       0.0);
13365       ( 408046.2, 3738135.9,      15.0,      15.0,       0.0);         ( 408045.0,
            3738101.6,      15.0,      15.0,       0.0);
13366       ( 408047.1, 3738076.0,      15.0,      15.0,       0.0);         ( 408045.2,
            3738042.3,      15.0,      15.0,       0.0);
13367       ( 408102.6, 3738105.0,      15.0,      15.0,       0.0);         ( 408103.0,
            3738048.6,      15.0,      15.0,       0.0);
13368       ( 408044.8, 3738009.1,      15.0,      15.0,       0.0);         ( 408044.7,
            3737975.6,      15.0,      15.0,       0.0);
13369       ( 408043.7, 3737948.9,      15.0,      15.0,       0.0);         ( 408103.0,
            3737978.7,      15.0,      15.0,       0.0);
13370       ( 408103.3, 3737940.5,      15.0,      15.0,       0.0);         ( 408048.4,
            3737902.4,      15.0,      15.0,       0.0);
13371       ( 408048.4, 3737871.6,      15.0,      15.0,       0.0);         ( 408047.4,
            3737836.5,      15.0,      15.0,       0.0);
13372       ( 408047.4, 3737814.3,      15.0,      15.0,       0.0);         ( 408098.3,
            3737909.0,      15.0,      15.0,       0.0);
13373       ( 408099.1, 3737881.1,      15.0,      15.0,       0.0);         ( 408099.1,
            3737861.8,      15.0,      15.0,       0.0);
13374       ( 408099.6, 3737832.2,      15.0,      15.0,       0.0);         ( 408097.8,
            3737796.1,      15.0,      15.0,       0.0);
13375       ( 408099.1, 3737765.7,      15.0,      15.0,       0.0);         ( 408043.9,
            3737693.9,      15.0,      15.0,       0.0);
13376       ( 408098.0, 3737736.4,      15.0,      15.0,       0.0);         ( 408113.3,
            3737692.4,      15.0,      15.0,       0.0);
13377       ( 408042.6, 3737678.4,      15.0,      15.0,       0.0);         ( 408043.9,
            3737600.0,      15.0,      15.0,       0.0);
13378       ( 408110.4, 3737585.2,      15.0,      15.0,       0.0);         ( 408045.0,
            3737547.5,      15.1,      15.1,       0.0);
13379       ( 408102.5, 3737553.3,      15.0,      15.0,       0.0);         ( 408048.7,
            3737498.9,      15.4,      15.4,       0.0);
13380       ( 408103.3, 3737456.2,      15.0,      15.0,       0.0);         ( 408133.9,
            3737465.7,      15.0,      15.0,       0.0);
13381       ( 408119.1, 3737401.3,      15.0,      15.0,       0.0);         ( 408016.5,
            3737427.7,      16.0,      16.0,       0.0);
13382       ( 407212.9, 3740410.1,      18.0,      18.0,
            0.0);
13383  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
13384   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
13385
                                  PAGE 362
13386   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13387
13388                        * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE
                           PERFORMED *
13389                        LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
                             FASTAREA/FASTALL
13390
13391
13392                              SOURCE          - - RECEPTOR LOCATION - -         DISTANCE
13393                                ID            XR (METERS)   YR (METERS)         (METERS)
13394                           - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                              -
13395
13396                            L0000013            407263.5     3740425.1             0.75
13397                            L0000033            407244.5     3740705.8            -1.19
13398  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
13399   *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        12:35:34
13400
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

1 1 1

```
13441    12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
         0.96  322.   10.1  283.8    2.0
13442    12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
         0.52   13.   10.1  283.1    2.0
13443    12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
         0.75   73.   10.1  282.0    2.0
13444    12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
         0.91   98.   10.1  281.4    2.0
13445    12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
         0.00    0.   10.1  280.9    2.0
13446    12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
         0.55   80.   10.1  280.4    2.0
13447    12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
         0.69  201.   10.1  280.4    2.0
13448    12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
         0.52   72.   10.1  280.9    2.0
13449    12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
         0.00    0.   10.1  285.9    2.0
13450    12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
         0.79  268.   10.1  289.9    2.0
13451    12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
         0.70  273.   10.1  294.2    2.0
13452    12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
         0.74  230.   10.1  297.5    2.0
13453    12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
         1.20  227.   10.1  300.4    2.0
13454    12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
         1.47  233.   10.1  300.9    2.0
13455    12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
         1.20  233.   10.1  302.0    2.0
13456    12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
         1.91  229.   10.1  298.1    2.0
13457    12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
         1.37  212.   10.1  294.2    2.0
13458    12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
         0.91  190.   10.1  292.0    2.0
13459    12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
         0.70  302.   10.1  289.2    2.0
13460    12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
         0.87  338.   10.1  288.1    2.0
13461    12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
         1.11  304.   10.1  287.0    2.0
13462    12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
         0.75   76.   10.1  285.4    2.0
13463    12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
         0.62  306.   10.1  284.9    2.0
13464    12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
         0.82  318.   10.1  283.8    2.0
13465
13466
13467    First hour of profile data
13468    YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
13469    12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
13470
13471    F indicates top of profile (=1) or below (=0)
13472 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
         Const CO\16113-02 Const ***        01/22/25
13473    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
13474
                                    PAGE 365
13475    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13476
13477                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES
                                    FOR SOURCE GROUP: ALL      ***
```

INCLUDING SOURCE(S): VOL1 , L0000001 , L0000002 , L0000003 , L0000004 ,
L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,
L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 ,
L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
407197.41	3740354.49	0.01909	407183.18	3740347.13	0.01726
407241.68	3740347.31	0.02576	407108.00	3740378.65	0.00247
407224.06	3740354.48	0.02370	407152.04	3740351.83	0.00724
407136.97	3740351.17	0.00535	407159.65	3740296.70	0.01589
407297.73	3740355.14	0.00816	407311.17	3740228.02	0.00308
407298.05	3740416.88	0.00451	407263.48	3740425.06	0.00497
407263.74	3740448.28	0.00372	407253.45	3740517.68	0.00172
407327.60	3740465.69	0.00236	407319.95	3740498.68	0.00191
407304.91	3740552.25	0.00134	407237.88	3740641.18	0.00067
407278.52	3740698.17	0.00060	407244.48	3740705.83	0.00053
407239.73	3740783.14	0.00031	407288.55	3740769.42	0.00044
407312.56	3740721.66	0.00056	407365.60	3740769.16	0.00047
407462.18	3740703.72	0.00048	407432.10	3740769.95	0.00046
407470.10	3740781.30	0.00040	407542.40	3740786.31	0.00035
407549.79	3740722.71	0.00043	407600.19	3740718.49	0.00037
407625.79	3740721.40	0.00036	407594.92	3740777.07	0.00033
407632.65	3740776.55	0.00031	407648.48	3740721.13	0.00033
407695.98	3740777.60	0.00027	407734.24	3740777.34	0.00025
407687.54	3740721.13	0.00030	407708.65	3740721.92	0.00029
407747.18	3740719.28	0.00025	407826.87	3740725.09	0.00025
407833.99	3740775.23	0.00021	407890.20	3740776.02	0.00019
408036.65	3740709.78	0.00018	407940.07	3740773.12	0.00019
408001.03	3740769.95	0.00019	408098.93	3740786.05	0.00011
408037.45	3740766.78	0.00020	408143.26	3740705.83	0.00009

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13513           408047.47    3740684.98        0.00019                        408047.74
                3740646.45         0.00019
13514           408114.76    3740578.37        0.00012                        408044.04
                3740580.22         0.00017
13515           408003.40    3740456.19        0.00010                        408103.42
                3740460.94         0.00015
13516           408116.08    3740373.86        0.00012                        408040.35
                3740381.52         0.00014
13517           408035.60    3740363.04        0.00013                        408037.71
                3740330.06         0.00014
13518           408108.69    3740314.49        0.00013                        408036.13
                3740271.21         0.00013
13519           408036.92    3740242.45        0.00013                        408101.04
                3740277.02         0.00015
13520           408103.94    3740244.03        0.00014                        408101.57
                3740214.48         0.00015
13521           408100.51    3740178.06        0.00016                        408102.10
                3740150.62         0.00015
13522           408102.89    3740094.41        0.00015                        408036.92
                3740194.42         0.00013
13523           408038.24    3740166.45        0.00013                        408037.45
                3740106.02         0.00012
13524           408037.45    3740075.68        0.00012                        408050.64
                3740016.83         0.00016
13525           408116.35    3740034.51        0.00012                        408099.19
                3739975.93         0.00016
13526           408050.90    3739972.50        0.00016                        408031.64
                3739915.50         0.00011
13527           408098.67    3739906.53        0.00015                        408032.17
                3739895.71         0.00011
13528           408029.79    3739877.76        0.00010                        408032.96
                3739857.97         0.00011
13529   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
        Const CO\16113-02 Const ***        01/22/25
13530    *** AERMET - VERSION  16216 ***
         ***                                                                    ***
         12:35:34
13531
                                    PAGE 366
13532    *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13533
13534                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES
                                    FOR SOURCE GROUP: ALL      ***
13535                                   INCLUDING SOURCE(S):     VOL1        , L0000001    ,
                                        L0000002    , L0000003    , L0000004    ,
13536                    L0000005    , L0000006    , L0000007    , L0000008    , L0000009    ,
                         L0000010    , L0000011    , L0000012    ,
13537                    L0000013    , L0000014    , L0000015    , L0000016    , L0000017    ,
                         L0000018    , L0000019    , L0000020    ,
13538                    L0000021    , L0000022    , L0000023    , L0000024    , L0000025    ,
                         L0000026    , L0000027    ,  . . .      ,
13539
13540                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
13541
13542                                      ** CONC OF DPM      IN
                                           MICROGRAMS/M**3                          **
13543
13544          X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)   Y-COORD
               (M)        CONC
13545    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
13546           408034.54    3739829.21        0.00011                        408118.46
                3739870.11         0.00010
13547           408107.37    3739824.46        0.00012                        408099.19
                3739716.27         0.00014
13548           408106.85    3739752.95        0.00012                        408100.78
```

	3739693.84	0.00014		
13549	408038.24	3739768.78	0.00012	408032.96
	3739817.34	0.00011		
13550	408036.13	3739727.88	0.00011	408035.86
	3739675.63	0.00011		
13551	408037.97	3739639.48	0.00011	408037.71
	3739589.61	0.00011		
13552	408032.17	3739560.84	0.00009	408102.36
	3739661.12	0.00013		
13553	408104.47	3739623.91	0.00012	408119.51
	3739600.16	0.00009		
13554	408111.33	3739580.37	0.00011	408109.75
	3739556.62	0.00011		
13555	408095.76	3739518.36	0.00015	408049.06
	3739521.26	0.00014		
13556	408030.32	3739469.28	0.00008	408051.43
	3739431.80	0.00014		
13557	408048.79	3739413.07	0.00013	408120.04
	3739487.22	0.00009		
13558	408143.26	3739399.08	0.00007	408113.71
	3739342.88	0.00010		
13559	408036.13	3739355.28	0.00009	408044.31
	3739318.86	0.00011		
13560	408094.71	3739318.34	0.00017	408030.58
	3739230.99	0.00007		
13561	408044.83	3739253.95	0.00010	408042.46
	3739166.87	0.00009		
13562	408100.51	3739231.52	0.00014	408095.24
	3739266.61	0.00017		
13563	408153.29	3739163.17	0.00006	408102.36
	3739115.67	0.00013		
13564	408031.11	3739101.42	0.00007	408024.67
	3738983.53	0.00006		
13565	408020.63	3738926.41	0.00006	408110.61
	3738949.66	0.00010		
13566	408105.05	3738895.07	0.00011	408020.24
	3738908.31	0.00006		
13567	408109.28	3738857.21	0.00010	408042.54
	3738847.68	0.00010		
13568	408045.02	3738755.01	0.00010	408109.28
	3738720.31	0.00010		
13569	408050.93	3738693.43	0.00013	408054.37
	3738592.56	0.00015		
13570	408101.27	3738540.13	0.00012	408053.60
	3738503.33	0.00014		
13571	408053.41	3738429.16	0.00014	408118.24
	3738418.10	0.00008		
13572	408052.46	3738369.67	0.00013	408134.26
	3738381.30	0.00006		
13573	408135.97	3738350.60	0.00006	408044.45
	3738264.61	0.00010		
13574	408117.29	3738288.25	0.00008	408119.00
	3738242.11	0.00008		
13575	408043.69	3738177.28	0.00010	408038.73
	3738205.12	0.00008		
13576	408105.85	3738177.28	0.00010	408100.89
	3738142.20	0.00012		
13577	408046.17	3738135.91	0.00010	408045.02
	3738101.59	0.00010		
13578	408047.12	3738076.04	0.00011	408045.21
	3738042.29	0.00010		
13579	408102.61	3738105.02	0.00011	408102.99
	3738048.58	0.00011		
13580	408044.83	3738009.11	0.00010	408044.72
	3737975.56	0.00010		
13581	408043.67	3737948.90	0.00010	408103.05

```
            3737978.72        0.00010
13582       408103.31    3737940.46        0.00010                      408048.42
            3737902.45        0.00012
13583       408048.42    3737871.57        0.00012                      408047.36
            3737836.47        0.00012
13584       408047.36    3737814.30        0.00011                      408098.30
            3737909.05        0.00012
13585       408099.09    3737881.07        0.00011                      408099.09
            3737861.81        0.00011
13586  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
13587   *** AERMET - VERSION  16216 ***
        ***                                                                  ***
        12:35:34
13588
                                  PAGE 367
13589   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13590
13591                             *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP: ALL      ***
13592                                 INCLUDING SOURCE(S):     VOL1        , L0000001    ,
                                      L0000002    , L0000003    , L0000004    ,
13593                 L0000005    , L0000006    , L0000007    , L0000008    , L0000009    ,
                      L0000010    , L0000011    , L0000012    ,
13594                 L0000013    , L0000014    , L0000015    , L0000016    , L0000017    ,
                      L0000018    , L0000019    , L0000020    ,
13595                 L0000021    , L0000022    , L0000023    , L0000024    , L0000025    ,
                      L0000026    , L0000027    ,  . . .      ,
13596
13597                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
13598
13599                                       ** CONC OF DPM      IN
                                            MICROGRAMS/M**3                          **
13600
13601         X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)   Y-COORD
              (M)        CONC
13602    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         - - - - - - - - - - - - - - - - - - -
13603           408099.62    3737832.25        0.00011                      408097.77
                3737796.09        0.00013
13604           408099.09    3737765.74        0.00012                      408043.93
                3737693.95        0.00009
13605           408098.03    3737736.44        0.00013                      408113.34
                3737692.37        0.00008
13606           408042.61    3737678.38        0.00009                      408043.93
                3737600.00        0.00009
13607           408110.44    3737585.22        0.00009                      408044.98
                3737547.48        0.00010
13608           408102.52    3737553.28        0.00011                      408048.68
                3737498.91        0.00011
13609           408103.31    3737456.16        0.00010                      408133.93
                3737465.66        0.00005
13610           408119.15    3737401.26        0.00007                      408016.48
                3737427.66        0.00004
13611           407212.89    3740410.08
                0.00587

13612  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        01/22/25
13613   *** AERMET - VERSION  16216 ***
        ***                                                                  ***
        12:35:34
13614
                                  PAGE 368
13615   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
13616
```

13617 *** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***
13618
13619
13620 ** CONC OF DPM IN MICROGRAMS/M**3 **
13621
13622
13623 GROUP ID NETWORK AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
13624 - - -

```
13664
13665
13666        ********   WARNING MESSAGES   ********
13667     ME W186    4927       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
          used           0.50
13668     ME W187    4927       MEOPEN: ADJ_U* Option for Stable Low Winds used in
          AERMET
13669
13670        ***********************************
13671        *** AERMOD Finishes Successfully ***
13672        ***********************************
13673
13674
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 3010232 Orange_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.2532938118     5.000    21.791     1.400
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "16113-02 Const CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "16113-02 CONST CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "16113-02 CONST CO.AD\08H1GALL.PLT" 32
   SUMMFILE "16113-02 Const CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 3010232 Orange_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.2532938118     5.000    21.791     1.400
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "16113-02 Const CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "16113-02 CONST CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "16113-02 CONST CO.AD\08H1GALL.PLT" 32
   SUMMFILE "16113-02 Const 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      82       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
 used           0.50
 ME W187      82       MEOPEN: ADJ_U* Option for Stable Low Winds used in
 AERMET

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

FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 13:32:54

                              PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
```

```
- - - -
```

```
186   **Output Print File:
      aermod.out
187
188   **Detailed Error/Message File:   16113-02 Const
      CO.err
189   **File for Summary of Results:   16113-02 Const
      CO.sum
190   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
191   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:32:54
192
                                  PAGE   2
193   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
194
195
196                                              *** VOLUME SOURCE DATA ***
197
198                NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
                   INIT.   URBAN  EMISSION RATE   AIRCRAFT
199     SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
        SZ     SOURCE  SCALAR VARY
200       ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
          (METERS)             BY
201   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - -
202
203    VOL1             0   0.25329E+00  407216.8 3740298.7    18.4     5.00    21.79
       1.40     YES   HRDOW            NO
204   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
205    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:32:54
206
                                  PAGE   3
207    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
208
209
210                                           *** SOURCE IDs DEFINING SOURCE GROUPS ***
211
212    SRCGROUP ID                                          SOURCE IDs
213    -----------                                          ----------
214
215
216     ALL        VOL1        ,
217   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
218    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:32:54
219
                                  PAGE   4
220    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
221
222
223                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***
224
225     URBAN ID   URBAN POP                                 SOURCE IDs
226     --------   ---------                                 ----------
227
228
229                 3010232.   VOL1        ,
230   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
```

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

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

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

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

(407197.4, 3740354.5, 18.0, 18.0, 2.0); (407183.2, 3740347.1, 18.2, 18.2, 2.0);
(407241.7, 3740347.3, 18.0, 18.0, 2.0); (407108.0, 3740378.6, 18.1, 18.1, 2.0);
(407224.1, 3740354.5, 18.0, 18.0, 2.0); (407152.0, 3740351.8, 18.5, 18.5, 2.0);
(407137.0, 3740351.2, 18.7, 18.7, 2.0); (407159.6, 3740296.7, 18.8, 18.8, 2.0);
(407297.7, 3740355.1, 18.2, 18.2, 2.0); (407311.2, 3740228.0, 19.0, 19.0, 2.0);
(407298.0, 3740416.9, 18.0, 18.0, 2.0); (407263.5, 3740425.1, 18.0, 18.0, 2.0);
(407263.7, 3740448.3, 17.8, 17.8, 2.0); (407253.5, 3740517.7, 17.1, 17.1, 2.0);
(407327.6, 3740465.7, 17.9, 17.9, 2.0); (407320.0, 3740498.7, 17.6, 17.6, 2.0);

```
269         ( 407304.9, 3740552.2,      17.2,      17.2,       2.0);         ( 407237.9,
            3740641.2,      17.0,      17.0,       2.0);
270         ( 407278.5, 3740698.2,      17.0,      17.0,       2.0);         ( 407244.5,
            3740705.8,      17.0,      17.0,       2.0);
271         ( 407239.7, 3740783.1,      17.0,      17.0,       2.0);         ( 407288.5,
            3740769.4,      17.0,      17.0,       2.0);
272         ( 407312.6, 3740721.7,      17.1,      17.1,       2.0);         ( 407365.6,
            3740769.2,      17.7,      17.7,       2.0);
273         ( 407462.2, 3740703.7,      18.3,      18.3,       2.0);         ( 407432.1,
            3740769.9,      18.0,      18.0,       2.0);
274         ( 407470.1, 3740781.3,      18.4,      18.4,       2.0);         ( 407542.4,
            3740786.3,      19.0,      19.0,       2.0);
275         ( 407549.8, 3740722.7,      19.0,      19.0,       2.0);         ( 407600.2,
            3740718.5,      19.1,      19.1,       2.0);
276         ( 407625.8, 3740721.4,      19.4,      19.4,       2.0);         ( 407594.9,
            3740777.1,      19.0,      19.0,       2.0);
277         ( 407632.6, 3740776.5,      19.5,      19.5,       2.0);         ( 407648.5,
            3740721.1,      19.7,      19.7,       2.0);
278         ( 407696.0, 3740777.6,      20.3,      20.3,       2.0);         ( 407734.2,
            3740777.3,      20.7,      20.7,       2.0);
279         ( 407687.5, 3740721.1,      20.0,      20.0,       2.0);         ( 407708.6,
            3740721.9,      20.1,      20.1,       2.0);
280         ( 407747.2, 3740719.3,      20.2,      20.2,       2.0);         ( 407826.9,
            3740725.1,      20.0,      20.0,       2.0);
281         ( 407834.0, 3740775.2,      20.0,      20.0,       2.0);         ( 407890.2,
            3740776.0,      20.0,      20.0,       2.0);
282         ( 408036.6, 3740709.8,      19.2,      19.2,       2.0);         ( 407940.1,
            3740773.1,      20.0,      20.0,       2.0);
283         ( 408001.0, 3740769.9,      19.7,      19.7,       2.0);         ( 408098.9,
            3740786.0,      19.0,      19.0,       2.0);
284         ( 408037.5, 3740766.8,      19.2,      19.2,       2.0);         ( 408143.3,
            3740705.8,      19.0,      19.0,       2.0);
285         ( 408047.5, 3740685.0,      19.1,      19.1,       2.0);         ( 408047.7,
            3740646.4,      19.0,      19.0,       2.0);
286         ( 408114.8, 3740578.4,      19.0,      19.0,       2.0);         ( 408044.0,
            3740580.2,      19.0,      19.0,       2.0);
287         ( 408003.4, 3740456.2,      19.0,      19.0,       2.0);         ( 408103.4,
            3740460.9,      19.0,      19.0,       2.0);
288         ( 408116.1, 3740373.9,      19.0,      19.0,       2.0);         ( 408040.3,
            3740381.5,      19.1,      19.1,       2.0);
289         ( 408035.6, 3740363.0,      19.1,      19.1,       2.0);         ( 408037.7,
            3740330.1,      19.2,      19.2,       2.0);
290         ( 408108.7, 3740314.5,      19.0,      19.0,       2.0);         ( 408036.1,
            3740271.2,      19.2,      19.2,       2.0);
291         ( 408036.9, 3740242.4,      19.2,      19.2,       2.0);         ( 408101.0,
            3740277.0,      19.0,      19.0,       2.0);
292         ( 408103.9, 3740244.0,      19.0,      19.0,       2.0);         ( 408101.6,
            3740214.5,      19.0,      19.0,       2.0);
293         ( 408100.5, 3740178.1,      19.0,      19.0,       2.0);         ( 408102.1,
            3740150.6,      19.0,      19.0,       2.0);
294         ( 408102.9, 3740094.4,      18.6,      18.6,       2.0);         ( 408036.9,
            3740194.4,      19.1,      19.1,       2.0);
295         ( 408038.2, 3740166.4,      19.0,      19.0,       2.0);         ( 408037.5,
            3740106.0,      19.0,      19.0,       2.0);
296         ( 408037.5, 3740075.7,      19.0,      19.0,       2.0);         ( 408050.6,
            3740016.8,      18.6,      18.6,       2.0);
297         ( 408116.3, 3740034.5,      18.1,      18.1,       2.0);         ( 408099.2,
            3739975.9,      18.1,      18.1,       2.0);
298         ( 408050.9, 3739972.5,      18.1,      18.1,       2.0);         ( 408031.6,
            3739915.5,      17.5,      17.5,       2.0);
299         ( 408098.7, 3739906.5,      17.4,      17.4,       2.0);         ( 408032.2,
            3739895.7,      17.3,      17.3,       2.0);
300         ( 408029.8, 3739877.8,      17.1,      17.1,       2.0);         ( 408033.0,
            3739858.0,      17.0,      17.0,       2.0);
301         ( 408034.5, 3739829.2,      17.0,      17.0,       2.0);         ( 408118.5,
            3739870.1,      17.0,      17.0,       2.0);
```

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302       ( 408107.4, 3739824.5,      17.0,      17.0,       2.0);         ( 408099.2,
          3739716.3,      16.3,      16.3,       2.0);
303       ( 408106.8, 3739752.9,      16.7,      16.7,       2.0);         ( 408100.8,
          3739693.8,      16.1,      16.1,       2.0);
304       ( 408038.2, 3739768.8,      16.9,      16.9,       2.0);         ( 408033.0,
          3739817.3,      17.0,      17.0,       2.0);
305       ( 408036.1, 3739727.9,      16.5,      16.5,       2.0);         ( 408035.9,
          3739675.6,      16.0,      16.0,       2.0);
306   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
307    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:32:54
308
                                  PAGE   7
309    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
310
311                                              *** DISCRETE CARTESIAN RECEPTORS ***
312                                             (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
313                                                        (METERS)
314
315       ( 408038.0, 3739639.5,      16.0,      16.0,       2.0);         ( 408037.7,
          3739589.6,      16.0,      16.0,       2.0);
316       ( 408032.2, 3739560.8,      16.0,      16.0,       2.0);         ( 408102.4,
          3739661.1,      16.0,      16.0,       2.0);
317       ( 408104.5, 3739623.9,      16.0,      16.0,       2.0);         ( 408119.5,
          3739600.2,      16.0,      16.0,       2.0);
318       ( 408111.3, 3739580.4,      16.0,      16.0,       2.0);         ( 408109.8,
          3739556.6,      16.0,      16.0,       2.0);
319       ( 408095.8, 3739518.4,      16.0,      16.0,       2.0);         ( 408049.1,
          3739521.3,      16.0,      16.0,       2.0);
320       ( 408030.3, 3739469.3,      15.7,      15.7,       2.0);         ( 408051.4,
          3739431.8,      15.3,      15.3,       2.0);
321       ( 408048.8, 3739413.1,      15.1,      15.1,       2.0);         ( 408120.0,
          3739487.2,      15.9,      15.9,       2.0);
322       ( 408143.3, 3739399.1,      15.0,      15.0,       2.0);         ( 408113.7,
          3739342.9,      15.0,      15.0,       2.0);
323       ( 408036.1, 3739355.3,      15.0,      15.0,       2.0);         ( 408044.3,
          3739318.9,      15.0,      15.0,       2.0);
324       ( 408094.7, 3739318.3,      15.0,      15.0,       2.0);         ( 408030.6,
          3739231.0,      15.0,      15.0,       2.0);
325       ( 408044.8, 3739253.9,      15.0,      15.0,       2.0);         ( 408042.5,
          3739166.9,      15.0,      15.0,       2.0);
326       ( 408100.5, 3739231.5,      15.0,      15.0,       2.0);         ( 408095.2,
          3739266.6,      15.0,      15.0,       2.0);
327       ( 408153.3, 3739163.2,      15.0,      15.0,       2.0);         ( 408102.4,
          3739115.7,      15.0,      15.0,       2.0);
328       ( 408031.1, 3739101.4,      15.0,      15.0,       2.0);         ( 408024.7,
          3738983.5,      15.0,      15.0,       2.0);
329       ( 408020.6, 3738926.4,      15.0,      15.0,       2.0);         ( 408110.6,
          3738949.7,      15.0,      15.0,       2.0);
330       ( 408105.0, 3738895.1,      15.0,      15.0,       2.0);         ( 408020.2,
          3738908.3,      15.0,      15.0,       2.0);
331       ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
          3738847.7,      15.0,      15.0,       2.0);
332       ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
          3738720.3,      15.0,      15.0,       2.0);
333       ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
          3738592.6,      15.0,      15.0,       2.0);
334       ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
          3738503.3,      15.0,      15.0,       2.0);
335       ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
          3738418.1,      15.0,      15.0,       2.0);
336       ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
          3738381.3,      15.0,      15.0,       2.0);
337       ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
```

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      3738264.6,      15.0,      15.0,       2.0);
338   ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
      3738242.1,      15.0,      15.0,       2.0);
339   ( 408043.7, 3738177.3,      15.0,      15.0,       2.0);         ( 408038.7,
      3738205.1,      15.0,      15.0,       2.0);
340   ( 408105.8, 3738177.3,      15.0,      15.0,       2.0);         ( 408100.9,
      3738142.2,      15.0,      15.0,       2.0);
341   ( 408046.2, 3738135.9,      15.0,      15.0,       2.0);         ( 408045.0,
      3738101.6,      15.0,      15.0,       2.0);
342   ( 408047.1, 3738076.0,      15.0,      15.0,       2.0);         ( 408045.2,
      3738042.3,      15.0,      15.0,       2.0);
343   ( 408102.6, 3738105.0,      15.0,      15.0,       2.0);         ( 408103.0,
      3738048.6,      15.0,      15.0,       2.0);
344   ( 408044.8, 3738009.1,      15.0,      15.0,       2.0);         ( 408044.7,
      3737975.6,      15.0,      15.0,       2.0);
345   ( 408043.7, 3737948.9,      15.0,      15.0,       2.0);         ( 408103.0,
      3737978.7,      15.0,      15.0,       2.0);
346   ( 408103.3, 3737940.5,      15.0,      15.0,       2.0);         ( 408048.4,
      3737902.4,      15.0,      15.0,       2.0);
347   ( 408048.4, 3737871.6,      15.0,      15.0,       2.0);         ( 408047.4,
      3737836.5,      15.0,      15.0,       2.0);
348   ( 408047.4, 3737814.3,      15.0,      15.0,       2.0);         ( 408098.3,
      3737909.0,      15.0,      15.0,       2.0);
349   ( 408099.1, 3737881.1,      15.0,      15.0,       2.0);         ( 408099.1,
      3737861.8,      15.0,      15.0,       2.0);
350   ( 408099.6, 3737832.2,      15.0,      15.0,       2.0);         ( 408097.8,
      3737796.1,      15.0,      15.0,       2.0);
351   ( 408099.1, 3737765.7,      15.0,      15.0,       2.0);         ( 408043.9,
      3737693.9,      15.0,      15.0,       2.0);
352   ( 408098.0, 3737736.4,      15.0,      15.0,       2.0);         ( 408113.3,
      3737692.4,      15.0,      15.0,       2.0);
353   ( 408042.6, 3737678.4,      15.0,      15.0,       2.0);         ( 408043.9,
      3737600.0,      15.0,      15.0,       2.0);
354   ( 408110.4, 3737585.2,      15.0,      15.0,       2.0);         ( 408045.0,
      3737547.5,      15.1,      15.1,       2.0);
355   ( 408102.5, 3737553.3,      15.0,      15.0,       2.0);         ( 408048.7,
      3737498.9,      15.4,      15.4,       2.0);
356   ( 408103.3, 3737456.2,      15.0,      15.0,       2.0);         ( 408133.9,
      3737465.7,      15.0,      15.0,       2.0);
357   ( 408119.1, 3737401.3,      15.0,      15.0,       2.0);         ( 408016.5,
      3737427.7,      16.0,      16.0,       2.0);
358   FE *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
359    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:32:54
360
                                PAGE   8
361    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
362
363                                          *** METEOROLOGICAL DAYS SELECTED FOR
                                             PROCESSING ***
364                                                        (1=YES; 0=NO)
365
366              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
367              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
368              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
369              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
370              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
371              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
```

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372             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
373             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
374
375                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                   IS INCLUDED IN THE DATA FILE.
376
377
378
379                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                     CATEGORIES ***
380                                                        (METERS/SEC)
381
382                                                   1.54,   3.09,   5.14,   8.23,  10.80,
383  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
384   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:32:54
385
                                   PAGE   9
386   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
387
388                                   *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                      ***
389
390      Surface file:
         ..\KFUL_V9_ADJU\KFUL_v9.SFC
         Met Version:  16216
391      Profile file:
         ..\KFUL_V9_ADJU\KFUL_v9.PFL
392      Surface format:
         FREE

393      Profile format:
         FREE

394      Surface station no.:     3166                  Upper air station no.:     3190
395                     Name: UNKNOWN                                  Name:
                        UNKNOWN
396                     Year:   2012                                   Year:   2012
397
398    First 24 hours of scalar data
399    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
400  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - -
401    12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
       0.96  322.   10.1  283.8    2.0
402    12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
       0.52   13.   10.1  283.1    2.0
403    12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
       0.75   73.   10.1  282.0    2.0
404    12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
       0.91   98.   10.1  281.4    2.0
405    12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
       0.00    0.   10.1  280.9    2.0
406    12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
       0.55   80.   10.1  280.4    2.0
407    12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
       0.69  201.   10.1  280.4    2.0
408    12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
       0.52   72.   10.1  280.9    2.0
409    12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
       0.00    0.   10.1  285.9    2.0
410    12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
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      0.79  268.   10.1  289.9    2.0
411   12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
      0.70  273.   10.1  294.2    2.0
412   12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
      0.74  230.   10.1  297.5    2.0
413   12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
      1.20  227.   10.1  300.4    2.0
414   12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
      1.47  233.   10.1  300.9    2.0
415   12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
      1.20  233.   10.1  302.0    2.0
416   12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
      1.91  229.   10.1  298.1    2.0
417   12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
      1.37  212.   10.1  294.2    2.0
418   12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
      0.91  190.   10.1  292.0    2.0
419   12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.70  302.   10.1  289.2    2.0
420   12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
      0.87  338.   10.1  288.1    2.0
421   12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
      1.11  304.   10.1  287.0    2.0
422   12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   76.   10.1  285.4    2.0
423   12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
      0.62  306.   10.1  284.9    2.0
424   12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
      0.82  318.   10.1  283.8    2.0
425
426
427   First hour of profile data
428   YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
429   12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
430
431   F indicates top of profile (=1) or below (=0)
432   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
433    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:32:54
434
                                  PAGE  10
435   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
436
437                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
438                                   INCLUDING SOURCE(S):     VOL1        ,
439
440                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
441
442                                         ** CONC OF CO       IN
                                            MICROGRAMS/M**3                          **
443
444        X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
           Y-COORD (M)        CONC     (YYMMDDHH)
445   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
446          407197.41   3740354.49      124.18031  (14021809)               407183.18
             3740347.13      122.11473  (13032208)
447          407241.68   3740347.31      128.31790  (14120315)               407108.00
             3740378.65       40.24005  (13032208)
448          407224.06   3740354.48      118.56776  (12112915)               407152.04
             3740351.83       85.12500  (13032208)
449          407136.97   3740351.17       68.74087  (13032208)               407159.65
             3740296.70      122.38159  (12100908)
```

450	407297.73	3740355.14	50.74825	(12121715)	407311.17
	3740228.02	34.93942	(13120911)		
451	407298.05	3740416.88	28.42540	(15122115)	407263.48
	3740425.06	32.70976	(12113015)		
452	407263.74	3740448.28	24.22386	(12113015)	407253.45
	3740517.68	12.74046	(12112915)		
453	407327.60	3740465.69	16.06794	(15122115)	407319.95
	3740498.68	14.21576	(12113015)		
454	407304.91	3740552.25	9.72490	(12113015)	407237.88
	3740641.18	6.01660	(16091208)		
455	407278.52	3740698.17	4.46019	(16091308)	407244.48
	3740705.83	4.31651	(16091208)		
456	407239.73	3740783.14	3.15855	(16091208)	407288.55
	3740769.42	3.31356	(16091308)		
457	407312.56	3740721.66	3.82877	(12113014)	407365.60
	3740769.16	2.92699	(13111915)		
458	407462.18	3740703.72	3.50905	(12112815)	407432.10
	3740769.95	3.25384	(12113015)		
459	407470.10	3740781.30	2.88726	(12113015)	407542.40
	3740786.31	2.35457	(13112015)		
460	407549.79	3740722.71	2.62407	(13112015)	407600.19
	3740718.49	2.42668	(16011815)		
461	407625.79	3740721.40	2.25268	(15122215)	407594.92
	3740777.07	2.08481	(16011815)		
462	407632.65	3740776.55	2.00150	(16011815)	407648.48
	3740721.13	2.25777	(15122215)		
463	407695.98	3740777.60	1.80169	(15122215)	407734.24
	3740777.34	1.75715	(15122215)		
464	407687.54	3740721.13	2.14108	(15122215)	407708.65
	3740721.92	2.02673	(15122215)		
465	407747.18	3740719.28	1.76513	(15122215)	407826.87
	3740725.09	1.34768	(12020208)		
466	407833.99	3740775.23	1.30029	(15122215)	407890.20
	3740776.02	1.13344	(12020208)		
467	408036.65	3740709.78	1.07549	(12121715)	407940.07
	3740773.12	1.04801	(12020208)		
468	408001.03	3740769.95	0.98710	(12041108)	408098.93
	3740786.05	0.86789	(12121715)		
469	408037.45	3740766.78	0.95245	(12121715)	408143.26
	3740705.83	0.87692	(12121715)		
470	408047.47	3740684.98	1.07335	(12121715)	408047.74
	3740646.45	1.05624	(12121715)		
471	408114.76	3740578.37	0.91116	(12020208)	408044.04
	3740580.22	1.03044	(12020208)		
472	408003.40	3740456.19	1.35941	(14032608)	408103.42
	3740460.94	1.12363	(14032608)		
473	408116.08	3740373.86	1.15772	(14032608)	408040.35
	3740381.52	1.38113	(14032608)		
474	408035.60	3740363.04	1.37275	(14032608)	408037.71
	3740330.06	1.26902	(14032608)		
475	408108.69	3740314.49	1.01505	(14032608)	408036.13
	3740271.21	1.26595	(16123015)		
476	408036.92	3740242.45	1.31706	(16123015)	408101.04
	3740277.02	1.06838	(16123015)		
477	408103.94	3740244.03	1.12510	(16123015)	408101.57
	3740214.48	1.13807	(16123015)		
478	408100.51	3740178.06	1.08301	(16123015)	408102.10
	3740150.62	0.99534	(16123015)		
479	408102.89	3740094.41	0.96408	(12020208)	408036.92
	3740194.42	1.27510	(16123015)		
480	408038.24	3740166.45	1.17862	(16123015)	408037.45
	3740106.02	1.09441	(12020208)		
481	408037.45	3740075.68	1.07841	(12020208)	408050.64
	3740016.83	1.01809	(12020208)		
482	408116.35	3740034.51	0.91607	(12020208)	408099.19
	3739975.93	0.91277	(12020208)		

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          408050.90   3739972.50        0.98895  (12020208)                408031.64
          3739915.50        0.98012  (12020208)
          408098.67   3739906.53        0.87270  (12020208)                408032.17
          3739895.71        0.96382  (12020208)
          408029.79   3739877.76        0.95331  (12020208)                408032.96
          3739857.97        0.93268  (12020208)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 13:32:54

                                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       ,

                                                *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
          408034.54   3739829.21        0.90737  (12020208)                408118.46
          3739870.11        0.82471  (12020208)
          408107.37   3739824.46        0.81023  (12020208)                408099.19
          3739716.27        0.74926  (12020208)
          408106.85   3739752.95        0.76522  (12020208)                408100.78
          3739693.84        0.73313  (12020208)
          408038.24   3739768.78        0.85428  (12020208)                408032.96
          3739817.34        0.90001  (12020208)
          408036.13   3739727.88        0.82440  (12020208)                408035.86
          3739675.63        0.78384  (12020208)
          408037.97   3739639.48        0.75428  (12020208)                408037.71
          3739589.61        0.71776  (12020208)
          408032.17   3739560.84        0.70157  (12020208)                408102.36
          3739661.12        0.71069  (12020208)
          408104.47   3739623.91        0.68547  (12020208)                408119.51
          3739600.16        0.65918  (12020208)
          408111.33   3739580.37        0.65360  (12020208)                408109.75
          3739556.62        0.64066  (12020208)
          408095.76   3739518.36        0.62766  (12020208)                408049.06
          3739521.26        0.66164  (12020208)
          408030.32   3739469.28        0.63995  (12020208)                408051.43
          3739431.80        0.60338  (12020208)
          408048.79   3739413.07        0.59363  (12020208)                408120.04
          3739487.22        0.59444  (12020208)
          408143.26   3739399.08        0.53622  (12020208)                408113.71
          3739342.88        0.52305  (12020208)
          408036.13   3739355.28        0.56657  (12020208)                408044.31
          3739318.86        0.54243  (12020208)
          408094.71   3739318.34        0.51957  (12020208)                408030.58
          3739230.99        0.50256  (12020208)
          408044.83   3739253.95        0.50848  (12020208)                408042.46
          3739166.87        0.46798  (12020208)
          408100.51   3739231.52        0.47671  (12020208)                408095.24
          3739266.61        0.49463  (12020208)
          408153.29   3739163.17        0.43094  (12020208)                408102.36
          3739115.67        0.42808  (12020208)
          408031.11   3739101.42        0.44290  (12020208)                408024.67
          3738983.53        0.39807  (12020208)
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519          408020.63   3738926.41        0.37866  (12020208)                 408110.61
             3738949.66         0.36783  (12020208)
520          408105.05   3738895.07        0.35214  (12020208)                 408020.24
             3738908.31         0.37260  (12020208)
521          408109.28   3738857.21        0.34032  (12020208)                 408042.54
             3738847.68         0.34917  (12020208)
522          408045.02   3738755.01        0.32223  (12020208)                 408109.28
             3738720.31         0.30423  (12020208)
523          408050.93   3738693.43        0.30541  (12020208)                 408054.37
             3738592.56         0.28128  (12020208)
524          408101.27   3738540.13        0.27641  (16022908)                 408053.60
             3738503.33         0.26595  (16022908)
525          408053.41   3738429.16        0.25230  (16022908)                 408118.24
             3738418.10         0.26069  (16022908)
526          408052.46   3738369.67        0.24566  (12110708)                 408134.26
             3738381.30         0.25702  (16022908)
527          408135.97   3738350.60        0.25262  (16022908)                 408044.45
             3738264.61         0.24468  (12110708)
528          408117.29   3738288.25        0.23937  (16022908)                 408119.00
             3738242.11         0.23295  (12110708)
529          408043.69   3738177.28        0.24139  (12110708)                 408038.73
             3738205.12         0.24304  (12110708)
530          408105.85   3738177.28        0.23445  (12110708)                 408100.89
             3738142.20         0.23434  (12110708)
531          408046.17   3738135.91        0.23926  (12110708)                 408045.02
             3738101.59         0.23757  (12110708)
532          408047.12   3738076.04        0.23608  (12110708)                 408045.21
             3738042.29         0.23421  (12110708)
533          408102.61   3738105.02        0.23312  (12110708)                 408102.99
             3738048.58         0.23121  (12110708)
534          408044.83   3738009.11        0.23220  (12110708)                 408044.72
             3737975.56         0.23006  (12110708)
535          408043.67   3737948.90        0.22830  (12110708)                 408103.05
             3737978.72         0.22835  (12110708)
536          408103.31   3737940.46        0.22656  (12110708)                 408048.42
             3737902.45         0.22517  (12110708)
537          408048.42   3737871.57        0.22301  (12110708)                 408047.36
             3737836.47         0.22046  (12110708)
538          408047.36   3737814.30        0.21883  (12110708)                 408098.30
             3737909.05         0.22516  (12110708)
539          408099.09   3737881.07        0.22363  (12110708)                 408099.09
             3737861.81         0.22256  (12110708)
540  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
541   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:32:54
542
                                PAGE  12
543   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
544
545                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
546                                   INCLUDING SOURCE(S):     VOL1        ,
547
548                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
549
550                                        ** CONC OF CO       IN
                                           MICROGRAMS/M**3                          **
551
552          X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
             Y-COORD (M)        CONC     (YYMMDDHH)
553   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
554          408099.62   3737832.25        0.22086  (12110708)                 408097.77
             3737796.09         0.21869  (12110708)
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          408099.09   3737765.74        0.21682  (12110708)                408043.93
          3737693.95        0.20941  (12110708)
          408098.03   3737736.44        0.21494  (12110708)                408113.34
          3737692.37        0.21243  (12110708)
          408042.61   3737678.38        0.20808  (12110708)                408043.93
          3737600.00        0.20191  (12110708)
          408110.44   3737585.22        0.20528  (12110708)                408044.98
          3737547.48        0.19778  (12110708)
          408102.52   3737553.28        0.20265  (12110708)                408048.68
          3737498.91        0.19430  (12110708)
          408103.31   3737456.16        0.19573  (12110708)                408133.93
          3737465.66        0.19837  (12110708)
          408119.15   3737401.26        0.19296  (12110708)                408016.48
          3737427.66        0.18483  (12110708)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 13:32:54

                                PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

                                             *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - -
          407197.41   3740354.49       61.64588  (13111516)                407183.18
          3740347.13       53.20006  (16122316)
          407241.68   3740347.31       70.75887  (13092016)                407108.00
          3740378.65       12.40875b (13121916)
          407224.06   3740354.48       63.19084  (15061216)                407152.04
          3740351.83       27.46779b (13121916)
          407136.97   3740351.17       22.52632b (13121916)                407159.65
          3740296.70       60.98596  (14121616)
          407297.73   3740355.14       27.70597  (14111216)                407311.17
          3740228.02       15.05505  (15121416)
          407298.05   3740416.88       15.93591  (12042316)                407263.48
          3740425.06       16.78509  (12052416)
          407263.74   3740448.28       12.57996  (12052416)                407253.45
          3740517.68        6.69979m (12052516)
          407327.60   3740465.69        8.93027  (12042316)                407319.95
          3740498.68        7.17651  (12042316)
          407304.91   3740552.25        4.83609  (12052416)                407237.88
          3740641.18        2.88627m (12052516)
          407278.52   3740698.17        2.36350m (12052516)                407244.48
          3740705.83        2.12600m (12052516)
          407239.73   3740783.14        1.48108m (12052516)                407288.55
          3740769.42        1.76349m (12052516)
          407312.56   3740721.66        2.08026m (12052516)                407365.60
          3740769.16        1.49690m (12052516)
          407462.18   3740703.72        1.85549  (12042316)                407432.10
          3740769.95        1.49658  (16050516)
          407470.10   3740781.30        1.38410  (12042316)                407542.40
          3740786.31        1.21458  (12042316)
          407549.79   3740722.71        1.29664  (12042316)                407600.19
          3740718.49        1.33579  (15122216)
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591          407625.79   3740721.40        1.29634  (15122216)                407594.92
             3740777.07        1.00811  (12042316)
592          407632.65   3740776.55        1.04202  (15122216)                407648.48
             3740721.13        1.25319  (15122216)
593          407695.98   3740777.60        1.00528  (15122216)                407734.24
             3740777.34        0.93356  (15122216)
594          407687.54   3740721.13        1.13642  (15122216)                407708.65
             3740721.92        1.05911  (15122216)
595          407747.18   3740719.28        0.90791  (15122216)                407826.87
             3740725.09        0.62096  (15122216)
596          407833.99   3740775.23        0.65952  (15122216)                407890.20
             3740776.02        0.51146  (15122216)
597          408036.65   3740709.78        0.23131  (12110916)                407940.07
             3740773.12        0.39509  (15122216)
598          408001.03   3740769.95        0.28346  (15122216)                408098.93
             3740786.05        0.18346  (12121716)
599          408037.45   3740766.78        0.23114  (15122216)                408143.26
             3740705.83        0.22250  (12110916)
600          408047.47   3740684.98        0.25767  (12110916)                408047.74
             3740646.45        0.29999  (12110916)
601          408114.76   3740578.37        0.32962  (12110916)                408044.04
             3740580.22        0.36873  (12110916)
602          408003.40   3740456.19        0.47167  (12110916)                408103.42
             3740460.94        0.37109  (12110916)
603          408116.08   3740373.86        0.32402  (12110916)                408040.35
             3740381.52        0.39994  (12110916)
604          408035.60   3740363.04        0.38974  (12110916)                408037.71
             3740330.06        0.36240  (14032616)
605          408108.69   3740314.49        0.30250  (15121116)                408036.13
             3740271.21        0.34580  (15121116)
606          408036.92   3740242.45        0.32949  (15121116)                408101.04
             3740277.02        0.29951  (15121116)
607          408103.94   3740244.03        0.28457  (15121116)                408101.57
             3740214.48        0.27054  (12122616)
608          408100.51   3740178.06        0.26188  (13011016)                408102.10
             3740150.62        0.26298  (13011016)
609          408102.89   3740094.41        0.30865  (15122516)                408036.92
             3740194.42        0.30487  (12122616)
610          408038.24   3740166.45        0.30569  (13011016)                408037.45
             3740106.02        0.36688  (15122516)
611          408037.45   3740075.68        0.39871  (15122516)                408050.64
             3740016.83        0.42135  (15122516)
612          408116.35   3740034.51        0.34351  (15122516)                408099.19
             3739975.93        0.38218  (15122516)
613          408050.90   3739972.50        0.42739  (15122516)                408031.64
             3739915.50        0.42066  (15122516)
614          408098.67   3739906.53        0.37170  (15122516)                408032.17
             3739895.71        0.40517  (15122516)
615          408029.79   3739877.76        0.39034  (15122516)                408032.96
             3739857.97        0.36991  (15122516)
616  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
617   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:32:54
618
                                PAGE  14
619   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
620
621                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
622                                   INCLUDING SOURCE(S):     VOL1        ,
623
624                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
625
626                                         ** CONC OF CO       IN
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
408034.54	3739829.21	0.35442	(15121416)	408118.46	3739870.11	0.34280	(15122516)
408107.37	3739824.46	0.31706	(15122516)	408099.19	3739716.27	0.30469	(15121416)
408106.85	3739752.95	0.30367	(15121416)	408100.78	3739693.84	0.29872	(15121416)
408038.24	3739768.78	0.35144	(15121416)	408032.96	3739817.34	0.35762	(15121416)
408036.13	3739727.88	0.34108	(15121416)	408035.86	3739675.63	0.31520	(15121416)
408037.97	3739639.48	0.29173	(15121416)	408037.71	3739589.61	0.25626	(15121416)
408032.17	3739560.84	0.23429	(15121416)	408102.36	3739661.12	0.28728	(15121416)
408104.47	3739623.91	0.27058	(15121416)	408119.51	3739600.16	0.25624	(15121416)
408111.33	3739580.37	0.24724	(15121416)	408109.75	3739556.62	0.23415	(15121416)
408095.76	3739518.36	0.21090	(15121416)	408049.06	3739521.26	0.20750	(15121416)
408030.32	3739469.28	0.16721	(15121416)	408051.43	3739431.80	0.14842	(15121416)
408048.79	3739413.07	0.13657	(15121416)	408120.04	3739487.22	0.19419	(15121416)
408143.26	3739399.08	0.14882	(15121416)	408113.71	3739342.88	0.11514	(15121416)
408036.13	3739355.28	0.10219	(15121416)	408044.31	3739318.86	0.09610	(14011416)
408094.71	3739318.34	0.09967	(15121416)	408030.58	3739230.99	0.08784	(12120416)
408044.83	3739253.95	0.08990	(14011416)	408042.46	3739166.87	0.08166	(12120416)
408100.51	3739231.52	0.08736	(14011416)	408095.24	3739266.61	0.09023	(14011416)
408153.29	3739163.17	0.08152	(14011416)	408102.36	3739115.67	0.07751	(14011416)
408031.11	3739101.42	0.07647	(16012616)	408024.67	3738983.53	0.07015	(15012116)
408020.63	3738926.41	0.06758	(15012116)	408110.61	3738949.66	0.06595	(16012616)
408105.05	3738895.07	0.06403	(13102516)	408020.24	3738908.31	0.06667	(15012116)
408109.28	3738857.21	0.06289	(13102516)	408042.54	3738847.68	0.06391	(13102516)
408045.02	3738755.01	0.06055	(13102516)	408109.28	3738720.31	0.05894	(13102516)
408050.93	3738693.43	0.05834	(13102516)	408054.37	3738592.56	0.05480	(13102516)
408101.27	3738540.13	0.05334	(13102516)	408053.60	3738503.33	0.05178	(13102516)
408053.41	3738429.16	0.04938	(13102516)	408118.24	3738418.10	0.04978	(13102516)
408052.46	3738369.67	0.04751	(13102516)	408134.26	3738381.30	0.04886	(13102516)
408135.97	3738350.60	0.04802	(13102516)	408044.45	3738264.61	0.04427	(13102516)
408117.29	3738288.25	0.04609	(13102516)	408119.00	3738242.11	0.04486	(13102516)
408043.69	3738177.28	0.04184	(13102516)	408038.73	3738205.12	0.04250	(13102516)

```
660          408105.85   3738177.28        0.04295  (13102516)                408100.89
             3738142.20        0.04197  (13102516)
661          408046.17   3738135.91        0.04081  (13102516)                408045.02
             3738101.59        0.03991  (13102516)
662          408047.12   3738076.04        0.03932  (13102516)                408045.21
             3738042.29        0.03846  (13102516)
663          408102.61   3738105.02        0.04107  (13102516)                408102.99
             3738048.58        0.03971  (13102516)
664          408044.83   3738009.11        0.03767  (13102516)                408044.72
             3737975.56        0.03690  (13102516)
665          408043.67   3737948.90        0.03628  (13102516)                408103.05
             3737978.72        0.03809  (13102516)
666          408103.31   3737940.46        0.03724  (13102516)                408048.42
             3737902.45        0.03537  (13102516)
667          408048.42   3737871.57        0.03472  (13102516)                408047.36
             3737836.47        0.03399  (13102516)
668          408047.36   3737814.30        0.03354  (13102516)                408098.30
             3737909.05        0.03647  (13102516)
669          408099.09   3737881.07        0.03589  (13102516)                408099.09
             3737861.81        0.03549  (13102516)
670  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
671   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:32:54
672
                                PAGE  15
673   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
674
675                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
676                                   INCLUDING SOURCE(S):     VOL1        ,
677
678                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
679
680                                       ** CONC OF CO       IN
                                          MICROGRAMS/M**3                          **
681
682          X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
             Y-COORD (M)        CONC     (YYMMDDHH)
683   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
684          408099.62   3737832.25        0.03490  (13102516)                408097.77
             3737796.09        0.03414  (13102516)
685          408099.09   3737765.74        0.03358  (13102516)                408043.93
             3737693.95        0.03122  (13102516)
686          408098.03   3737736.44        0.03301  (13102516)                408113.34
             3737692.37        0.03247  (13102516)
687          408042.61   3737678.38        0.03092  (13102516)                408043.93
             3737600.00        0.02961  (13102516)
688          408110.44   3737585.22        0.03056  (13102516)                408044.98
             3737547.48        0.02879  (13102516)
689          408102.52   3737553.28        0.02991  (13102516)                408048.68
             3737498.91        0.02812  (13102516)
690          408103.31   3737456.16        0.02841  (13102516)                408133.93
             3737465.66        0.02906  (13102516)
691          408119.15   3737401.26        0.02787  (13102516)                408016.48
             3737427.66        0.02783  (14020716)
692  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
693   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:32:54
694
                                PAGE  16
695   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

696
697 *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***
698
699
700 ** CONC OF CO IN MICROGRAMS/M**3 **
701
702
DATE
NETWORK
703 GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
704 - - -

```
738
739    *** Message Summary : AERMOD Model Execution ***
740
741     --------- Summary of Total Messages --------
742
743    A Total of            0 Fatal Error Message(s)
744    A Total of            2 Warning Message(s)
745    A Total of         2285 Informational Message(s)
746
747    A Total of        43848 Hours Were Processed
748
749    A Total of         1588 Calm Hours Identified
750
751    A Total of          697 Missing Hours Identified (  1.59 Percent)
752
753
754       ******** FATAL ERROR MESSAGES ********
755                  ***  NONE  ***
756
757
758       ********   WARNING MESSAGES   ********
759    ME W186      82       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
       used           0.50
760    ME W187      82       MEOPEN: ADJ_U* Option for Stable Low Winds used in
       AERMET
761
762       ***********************************
763       *** AERMOD Finishes Successfully ***
764       ***********************************
765
766
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const NOx\16113-02 Const NOx.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 3010232 Orange_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const NOx.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.281110058     5.000    21.791     1.400
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "16113-02 Const NOx.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "16113-02 CONST NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "16113-02 Const NOx.sum"
OU FINISHED
**
****************************************
** Project Parameters
****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const NOx\16113-02 Const NOx.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 3010232 Orange_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const NOx.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.281110058     5.000    21.791     1.400
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "16113-02 Const NOx.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "16113-02 CONST NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "16113-02 Const 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      82       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
 used           0.50
 ME W187      82       MEOPEN: ADJ_U* Option for Stable Low Winds used in
 AERMET

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

FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 13:36:24

                              PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
```

```
126
127   ** Model Options Selected:
128        * Model Uses Regulatory DEFAULT Options
129        * Model Is Setup For Calculation of Average CONCentration Values.
130        * NO GAS DEPOSITION Data Provided.
131        * NO PARTICLE DEPOSITION Data Provided.
132        * Model Uses NO DRY DEPLETION. DDPLETE  =  F
133        * Model Uses NO WET DEPLETION. WETDPLT  =  F
134        * Stack-tip Downwash.
135        * Model Accounts for ELEVated Terrain Effects.
136        * Use Calms Processing Routine.
137        * Use Missing Data Processing Routine.
138        * No Exponential Decay.
139        * Model Uses URBAN Dispersion Algorithm for the SBL for     1 Source(s),
140          for Total of    1 Urban Area(s):
141     Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
142        * Urban Roughness Length of 1.0 Meter Used.
143        * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
144        * CCVR_Sub - Meteorological data includes CCVR substitutions
145        * TEMP_Sub - Meteorological data includes TEMP substitutions
146        * Model Accepts FLAGPOLE Receptor . Heights.
147        * The User Specified a Pollutant Type of: NOX
148
149   **Model Calculates  1 Short Term Average(s) of:   1-HR
150
151   **This Run Includes:      1 Source(s);       1 Source Group(s); and     176 Receptor(s)
152
153                  with:      0 POINT(s), including
154                             0 POINTCAP(s) and      0 POINTHOR(s)
155                   and:      1 VOLUME source(s)
156                   and:      0 AREA type source(s)
157                   and:      0 LINE source(s)
158                   and:      0 RLINE/RLINEXT source(s)
159                   and:      0 OPENPIT source(s)
160                   and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
161                   and:      0 SWPOINT source(s)
162
163
164   **Model Set To Continue RUNning After the Setup Testing.
165
166   **The AERMET Input Meteorological Data Version Date:  16216
167
168   **Output Options Selected:
169            Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
               Keyword)
170            Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
171            Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
172
173   **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
174                                                                   m for Missing Hours
175                                                                   b for Both Calm and
                                                                      Missing Hours
176
177   **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    29.00 ;  Decay Coef.
      =    0.000     ;  Rot. Angle =     0.0
178                     Emission Units = GRAMS/SEC                                ;  Emission
                        Rate Unit Factor =   0.10000E+07
179                     Output Units   = MICROGRAMS/M**3
180
181   **Approximate Storage Requirements of Model =      3.5 MB of RAM.
182
183   **Input Runstream File:
      aermod.inp

184   **Output Print File:
      aermod.out
```

```
185
186    **Detailed Error/Message File:   16113-02 Const
       NOx.err
187    **File for Summary of Results:   16113-02 Const
       NOx.sum
188    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
189    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:36:24
190
                                  PAGE   2
191    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
192
193
194                                                 *** VOLUME SOURCE DATA ***
195
196                 NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
                    INIT.   URBAN  EMISSION RATE   AIRCRAFT
197      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
         SZ     SOURCE  SCALAR VARY
198        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
           (METERS)             BY
199    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - -
200
201    VOL1             0   0.28111E+00  407216.8 3740298.7    18.4     5.00    21.79
       1.40     YES   HRDOW            NO
202    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
203    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:36:24
204
                                  PAGE   3
205    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
206
207
208                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***
209
210    SRCGROUP ID                                          SOURCE IDs
211    -----------                                          ----------
212
213
214      ALL        VOL1        ,
215    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
216    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:36:24
217
                                  PAGE   4
218    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
219
220
221                                         *** SOURCE IDs DEFINED AS URBAN SOURCES ***
222
223     URBAN ID   URBAN POP                               SOURCE IDs
224     --------   ---------                               ----------
225
226
227                 3010232.   VOL1        ,
228    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
229    *** AERMET - VERSION  16216 ***
```

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

SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

(407197.4, 3740354.5, 18.0, 18.0, 2.0); (407183.2, 3740347.1, 18.2, 18.2, 2.0);
(407241.7, 3740347.3, 18.0, 18.0, 2.0); (407108.0, 3740378.6, 18.1, 18.1, 2.0);
(407224.1, 3740354.5, 18.0, 18.0, 2.0); (407152.0, 3740351.8, 18.5, 18.5, 2.0);
(407137.0, 3740351.2, 18.7, 18.7, 2.0); (407159.6, 3740296.7, 18.8, 18.8, 2.0);
(407297.7, 3740355.1, 18.2, 18.2, 2.0); (407311.2, 3740228.0, 19.0, 19.0, 2.0);
(407298.0, 3740416.9, 18.0, 18.0, 2.0); (407263.5, 3740425.1, 18.0, 18.0, 2.0);
(407263.7, 3740448.3, 17.8, 17.8, 2.0); (407253.5, 3740517.7, 17.1, 17.1, 2.0);
(407327.6, 3740465.7, 17.9, 17.9, 2.0); (407320.0, 3740498.7, 17.6, 17.6, 2.0);
(407304.9, 3740552.2, 17.2, 17.2, 2.0); (407237.9, 3740641.2, 17.0, 17.0, 2.0);

```
268         ( 407278.5, 3740698.2,      17.0,      17.0,       2.0);         ( 407244.5,
            3740705.8,      17.0,      17.0,       2.0);
269         ( 407239.7, 3740783.1,      17.0,      17.0,       2.0);         ( 407288.5,
            3740769.4,      17.0,      17.0,       2.0);
270         ( 407312.6, 3740721.7,      17.1,      17.1,       2.0);         ( 407365.6,
            3740769.2,      17.7,      17.7,       2.0);
271         ( 407462.2, 3740703.7,      18.3,      18.3,       2.0);         ( 407432.1,
            3740769.9,      18.0,      18.0,       2.0);
272         ( 407470.1, 3740781.3,      18.4,      18.4,       2.0);         ( 407542.4,
            3740786.3,      19.0,      19.0,       2.0);
273         ( 407549.8, 3740722.7,      19.0,      19.0,       2.0);         ( 407600.2,
            3740718.5,      19.1,      19.1,       2.0);
274         ( 407625.8, 3740721.4,      19.4,      19.4,       2.0);         ( 407594.9,
            3740777.1,      19.0,      19.0,       2.0);
275         ( 407632.6, 3740776.5,      19.5,      19.5,       2.0);         ( 407648.5,
            3740721.1,      19.7,      19.7,       2.0);
276         ( 407696.0, 3740777.6,      20.3,      20.3,       2.0);         ( 407734.2,
            3740777.3,      20.7,      20.7,       2.0);
277         ( 407687.5, 3740721.1,      20.0,      20.0,       2.0);         ( 407708.6,
            3740721.9,      20.1,      20.1,       2.0);
278         ( 407747.2, 3740719.3,      20.2,      20.2,       2.0);         ( 407826.9,
            3740725.1,      20.0,      20.0,       2.0);
279         ( 407834.0, 3740775.2,      20.0,      20.0,       2.0);         ( 407890.2,
            3740776.0,      20.0,      20.0,       2.0);
280         ( 408036.6, 3740709.8,      19.2,      19.2,       2.0);         ( 407940.1,
            3740773.1,      20.0,      20.0,       2.0);
281         ( 408001.0, 3740769.9,      19.7,      19.7,       2.0);         ( 408098.9,
            3740786.0,      19.0,      19.0,       2.0);
282         ( 408037.5, 3740766.8,      19.2,      19.2,       2.0);         ( 408143.3,
            3740705.8,      19.0,      19.0,       2.0);
283         ( 408047.5, 3740685.0,      19.1,      19.1,       2.0);         ( 408047.7,
            3740646.4,      19.0,      19.0,       2.0);
284         ( 408114.8, 3740578.4,      19.0,      19.0,       2.0);         ( 408044.0,
            3740580.2,      19.0,      19.0,       2.0);
285         ( 408003.4, 3740456.2,      19.0,      19.0,       2.0);         ( 408103.4,
            3740460.9,      19.0,      19.0,       2.0);
286         ( 408116.1, 3740373.9,      19.0,      19.0,       2.0);         ( 408040.3,
            3740381.5,      19.1,      19.1,       2.0);
287         ( 408035.6, 3740363.0,      19.1,      19.1,       2.0);         ( 408037.7,
            3740330.1,      19.2,      19.2,       2.0);
288         ( 408108.7, 3740314.5,      19.0,      19.0,       2.0);         ( 408036.1,
            3740271.2,      19.2,      19.2,       2.0);
289         ( 408036.9, 3740242.4,      19.2,      19.2,       2.0);         ( 408101.0,
            3740277.0,      19.0,      19.0,       2.0);
290         ( 408103.9, 3740244.0,      19.0,      19.0,       2.0);         ( 408101.6,
            3740214.5,      19.0,      19.0,       2.0);
291         ( 408100.5, 3740178.1,      19.0,      19.0,       2.0);         ( 408102.1,
            3740150.6,      19.0,      19.0,       2.0);
292         ( 408102.9, 3740094.4,      18.6,      18.6,       2.0);         ( 408036.9,
            3740194.4,      19.1,      19.1,       2.0);
293         ( 408038.2, 3740166.4,      19.0,      19.0,       2.0);         ( 408037.5,
            3740106.0,      19.0,      19.0,       2.0);
294         ( 408037.5, 3740075.7,      19.0,      19.0,       2.0);         ( 408050.6,
            3740016.8,      18.6,      18.6,       2.0);
295         ( 408116.3, 3740034.5,      18.1,      18.1,       2.0);         ( 408099.2,
            3739975.9,      18.1,      18.1,       2.0);
296         ( 408050.9, 3739972.5,      18.1,      18.1,       2.0);         ( 408031.6,
            3739915.5,      17.5,      17.5,       2.0);
297         ( 408098.7, 3739906.5,      17.4,      17.4,       2.0);         ( 408032.2,
            3739895.7,      17.3,      17.3,       2.0);
298         ( 408029.8, 3739877.8,      17.1,      17.1,       2.0);         ( 408033.0,
            3739858.0,      17.0,      17.0,       2.0);
299         ( 408034.5, 3739829.2,      17.0,      17.0,       2.0);         ( 408118.5,
            3739870.1,      17.0,      17.0,       2.0);
300         ( 408107.4, 3739824.5,      17.0,      17.0,       2.0);         ( 408099.2,
            3739716.3,      16.3,      16.3,       2.0);
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301       ( 408106.8, 3739752.9,      16.7,      16.7,       2.0);         ( 408100.8,
          3739693.8,      16.1,      16.1,       2.0);
302       ( 408038.2, 3739768.8,      16.9,      16.9,       2.0);         ( 408033.0,
          3739817.3,      17.0,      17.0,       2.0);
303       ( 408036.1, 3739727.9,      16.5,      16.5,       2.0);         ( 408035.9,
          3739675.6,      16.0,      16.0,       2.0);
304    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
305     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        13:36:24
306
                                    PAGE   7
307     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
308
309                                                *** DISCRETE CARTESIAN RECEPTORS ***
310                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
311                                                          (METERS)
312
313       ( 408038.0, 3739639.5,      16.0,      16.0,       2.0);         ( 408037.7,
          3739589.6,      16.0,      16.0,       2.0);
314       ( 408032.2, 3739560.8,      16.0,      16.0,       2.0);         ( 408102.4,
          3739661.1,      16.0,      16.0,       2.0);
315       ( 408104.5, 3739623.9,      16.0,      16.0,       2.0);         ( 408119.5,
          3739600.2,      16.0,      16.0,       2.0);
316       ( 408111.3, 3739580.4,      16.0,      16.0,       2.0);         ( 408109.8,
          3739556.6,      16.0,      16.0,       2.0);
317       ( 408095.8, 3739518.4,      16.0,      16.0,       2.0);         ( 408049.1,
          3739521.3,      16.0,      16.0,       2.0);
318       ( 408030.3, 3739469.3,      15.7,      15.7,       2.0);         ( 408051.4,
          3739431.8,      15.3,      15.3,       2.0);
319       ( 408048.8, 3739413.1,      15.1,      15.1,       2.0);         ( 408120.0,
          3739487.2,      15.9,      15.9,       2.0);
320       ( 408143.3, 3739399.1,      15.0,      15.0,       2.0);         ( 408113.7,
          3739342.9,      15.0,      15.0,       2.0);
321       ( 408036.1, 3739355.3,      15.0,      15.0,       2.0);         ( 408044.3,
          3739318.9,      15.0,      15.0,       2.0);
322       ( 408094.7, 3739318.3,      15.0,      15.0,       2.0);         ( 408030.6,
          3739231.0,      15.0,      15.0,       2.0);
323       ( 408044.8, 3739253.9,      15.0,      15.0,       2.0);         ( 408042.5,
          3739166.9,      15.0,      15.0,       2.0);
324       ( 408100.5, 3739231.5,      15.0,      15.0,       2.0);         ( 408095.2,
          3739266.6,      15.0,      15.0,       2.0);
325       ( 408153.3, 3739163.2,      15.0,      15.0,       2.0);         ( 408102.4,
          3739115.7,      15.0,      15.0,       2.0);
326       ( 408031.1, 3739101.4,      15.0,      15.0,       2.0);         ( 408024.7,
          3738983.5,      15.0,      15.0,       2.0);
327       ( 408020.6, 3738926.4,      15.0,      15.0,       2.0);         ( 408110.6,
          3738949.7,      15.0,      15.0,       2.0);
328       ( 408105.0, 3738895.1,      15.0,      15.0,       2.0);         ( 408020.2,
          3738908.3,      15.0,      15.0,       2.0);
329       ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
          3738847.7,      15.0,      15.0,       2.0);
330       ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
          3738720.3,      15.0,      15.0,       2.0);
331       ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
          3738592.6,      15.0,      15.0,       2.0);
332       ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
          3738503.3,      15.0,      15.0,       2.0);
333       ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
          3738418.1,      15.0,      15.0,       2.0);
334       ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
          3738381.3,      15.0,      15.0,       2.0);
335       ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
          3738264.6,      15.0,      15.0,       2.0);
336       ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
```

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      3738242.1,      15.0,      15.0,       2.0);
337   (  408043.7, 3738177.3,      15.0,      15.0,       2.0);         (  408038.7,
      3738205.1,      15.0,      15.0,       2.0);
338   (  408105.8, 3738177.3,      15.0,      15.0,       2.0);         (  408100.9,
      3738142.2,      15.0,      15.0,       2.0);
339   (  408046.2, 3738135.9,      15.0,      15.0,       2.0);         (  408045.0,
      3738101.6,      15.0,      15.0,       2.0);
340   (  408047.1, 3738076.0,      15.0,      15.0,       2.0);         (  408045.2,
      3738042.3,      15.0,      15.0,       2.0);
341   (  408102.6, 3738105.0,      15.0,      15.0,       2.0);         (  408103.0,
      3738048.6,      15.0,      15.0,       2.0);
342   (  408044.8, 3738009.1,      15.0,      15.0,       2.0);         (  408044.7,
      3737975.6,      15.0,      15.0,       2.0);
343   (  408043.7, 3737948.9,      15.0,      15.0,       2.0);         (  408103.0,
      3737978.7,      15.0,      15.0,       2.0);
344   (  408103.3, 3737940.5,      15.0,      15.0,       2.0);         (  408048.4,
      3737902.4,      15.0,      15.0,       2.0);
345   (  408048.4, 3737871.6,      15.0,      15.0,       2.0);         (  408047.4,
      3737836.5,      15.0,      15.0,       2.0);
346   (  408047.4, 3737814.3,      15.0,      15.0,       2.0);         (  408098.3,
      3737909.0,      15.0,      15.0,       2.0);
347   (  408099.1, 3737881.1,      15.0,      15.0,       2.0);         (  408099.1,
      3737861.8,      15.0,      15.0,       2.0);
348   (  408099.6, 3737832.2,      15.0,      15.0,       2.0);         (  408097.8,
      3737796.1,      15.0,      15.0,       2.0);
349   (  408099.1, 3737765.7,      15.0,      15.0,       2.0);         (  408043.9,
      3737693.9,      15.0,      15.0,       2.0);
350   (  408098.0, 3737736.4,      15.0,      15.0,       2.0);         (  408113.3,
      3737692.4,      15.0,      15.0,       2.0);
351   (  408042.6, 3737678.4,      15.0,      15.0,       2.0);         (  408043.9,
      3737600.0,      15.0,      15.0,       2.0);
352   (  408110.4, 3737585.2,      15.0,      15.0,       2.0);         (  408045.0,
      3737547.5,      15.1,      15.1,       2.0);
353   (  408102.5, 3737553.3,      15.0,      15.0,       2.0);         (  408048.7,
      3737498.9,      15.4,      15.4,       2.0);
354   (  408103.3, 3737456.2,      15.0,      15.0,       2.0);         (  408133.9,
      3737465.7,      15.0,      15.0,       2.0);
355   (  408119.1, 3737401.3,      15.0,      15.0,       2.0);         (  408016.5,
      3737427.7,      16.0,      16.0,       2.0);
356   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
357    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:36:24
358
                                  PAGE   8
359    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
360
361                                          *** METEOROLOGICAL DAYS SELECTED FOR
                                             PROCESSING ***
362                                                        (1=YES; 0=NO)
363
364              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
365              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
366              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
367              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
368              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
369              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
370              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
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371              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
372
373                  NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                     IS INCLUDED IN THE DATA FILE.
374
375
376
377                                     *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                        CATEGORIES ***
378                                                          (METERS/SEC)
379
380                                                    1.54,   3.09,   5.14,   8.23,  10.80,
381  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
382   *** AERMET - VERSION  16216 ***
      ***                                                                      ***
      13:36:24
383
                                    PAGE   9
384   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
385
386                                     *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                        ***
387
388      Surface file:
         ..\KFUL_V9_ADJU\KFUL_v9.SFC
         Met Version:  16216
389      Profile file:
         ..\KFUL_V9_ADJU\KFUL_v9.PFL
390      Surface format:
         FREE

391      Profile format:
         FREE

392      Surface station no.:     3166                  Upper air station no.:     3190
393                     Name: UNKNOWN                                    Name:
                        UNKNOWN
394                     Year:   2012                                     Year:   2012
395
396   First 24 hours of scalar data
397   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
398 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - -
399   12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
      0.96  322.   10.1  283.8    2.0
400   12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
      0.52   13.   10.1  283.1    2.0
401   12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   73.   10.1  282.0    2.0
402   12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
      0.91   98.   10.1  281.4    2.0
403   12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
      0.00    0.   10.1  280.9    2.0
404   12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
      0.55   80.   10.1  280.4    2.0
405   12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.69  201.   10.1  280.4    2.0
406   12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
      0.52   72.   10.1  280.9    2.0
407   12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
      0.00    0.   10.1  285.9    2.0
408   12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
      0.79  268.   10.1  289.9    2.0
409   12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
```

```
      0.70  273.   10.1  294.2    2.0
410   12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
      0.74  230.   10.1  297.5    2.0
411   12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
      1.20  227.   10.1  300.4    2.0
412   12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
      1.47  233.   10.1  300.9    2.0
413   12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
      1.20  233.   10.1  302.0    2.0
414   12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
      1.91  229.   10.1  298.1    2.0
415   12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
      1.37  212.   10.1  294.2    2.0
416   12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
      0.91  190.   10.1  292.0    2.0
417   12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.70  302.   10.1  289.2    2.0
418   12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
      0.87  338.   10.1  288.1    2.0
419   12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
      1.11  304.   10.1  287.0    2.0
420   12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   76.   10.1  285.4    2.0
421   12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
      0.62  306.   10.1  284.9    2.0
422   12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
      0.82  318.   10.1  283.8    2.0
423
424
425   First hour of profile data
426   YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
427   12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
428
429   F indicates top of profile (=1) or below (=0)
430   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
431    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:36:24
432
                                  PAGE  10
433   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
434
435                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
436                                   INCLUDING SOURCE(S):     VOL1        ,
437
438                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
439
440                                         ** CONC OF NOX      IN
                                            MICROGRAMS/M**3                          **
441
442        X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
           Y-COORD (M)        CONC     (YYMMDDHH)
443   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
444          407197.41   3740354.49      137.81755  (14021809)               407183.18
             3740347.13      135.52514  (13032208)
445          407241.68   3740347.31      142.40953  (14120315)               407108.00
             3740378.65       44.65913  (13032208)
446          407224.06   3740354.48      131.58864  (12112915)               407152.04
             3740351.83       94.47326  (13032208)
447          407136.97   3740351.17       76.28986  (13032208)               407159.65
             3740296.70      135.82130  (12100908)
448          407297.73   3740355.14       56.32133  (12121715)               407311.17
             3740228.02       38.77640  (13120911)
```

449	407298.05	3740416.88	31.54702	(15122115)	407263.48
	3740425.06	36.30188	(12113015)		
450	407263.74	3740448.28	26.88408	(12113015)	407253.45
	3740517.68	14.13960	(12112915)		
451	407327.60	3740465.69	17.83249	(15122115)	407319.95
	3740498.68	15.77691	(12113015)		
452	407304.91	3740552.25	10.79287	(12113015)	407237.88
	3740641.18	6.67734	(16091208)		
453	407278.52	3740698.17	4.95000	(16091308)	407244.48
	3740705.83	4.79054	(16091208)		
454	407239.73	3740783.14	3.50542	(16091208)	407288.55
	3740769.42	3.67745	(16091308)		
455	407312.56	3740721.66	4.24924	(12113014)	407365.60
	3740769.16	3.24843	(13111915)		
456	407462.18	3740703.72	3.89441	(12112815)	407432.10
	3740769.95	3.61117	(12113015)		
457	407470.10	3740781.30	3.20433	(12113015)	407542.40
	3740786.31	2.61315	(13112015)		
458	407549.79	3740722.71	2.91224	(13112015)	407600.19
	3740718.49	2.69317	(16011815)		
459	407625.79	3740721.40	2.50007	(15122215)	407594.92
	3740777.07	2.31376	(16011815)		
460	407632.65	3740776.55	2.22130	(16011815)	407648.48
	3740721.13	2.50571	(15122215)		
461	407695.98	3740777.60	1.99955	(15122215)	407734.24
	3740777.34	1.95012	(15122215)		
462	407687.54	3740721.13	2.37621	(15122215)	407708.65
	3740721.92	2.24930	(15122215)		
463	407747.18	3740719.28	1.95897	(15122215)	407826.87
	3740725.09	1.49568	(12020208)		
464	407833.99	3740775.23	1.44309	(15122215)	407890.20
	3740776.02	1.25791	(12020208)		
465	408036.65	3740709.78	1.19359	(12121715)	407940.07
	3740773.12	1.16310	(12020208)		
466	408001.03	3740769.95	1.09550	(12041108)	408098.93
	3740786.05	0.96320	(12121715)		
467	408037.45	3740766.78	1.05705	(12121715)	408143.26
	3740705.83	0.97323	(12121715)		
468	408047.47	3740684.98	1.19122	(12121715)	408047.74
	3740646.45	1.17223	(12121715)		
469	408114.76	3740578.37	1.01122	(12020208)	408044.04
	3740580.22	1.14360	(12020208)		
470	408003.40	3740456.19	1.50870	(14032608)	408103.42
	3740460.94	1.24702	(14032608)		
471	408116.08	3740373.86	1.28486	(14032608)	408040.35
	3740381.52	1.53281	(14032608)		
472	408035.60	3740363.04	1.52351	(14032608)	408037.71
	3740330.06	1.40838	(14032608)		
473	408108.69	3740314.49	1.12652	(14032608)	408036.13
	3740271.21	1.40497	(16123015)		
474	408036.92	3740242.45	1.46170	(16123015)	408101.04
	3740277.02	1.18571	(16123015)		
475	408103.94	3740244.03	1.24866	(16123015)	408101.57
	3740214.48	1.26305	(16123015)		
476	408100.51	3740178.06	1.20194	(16123015)	408102.10
	3740150.62	1.10465	(16123015)		
477	408102.89	3740094.41	1.06995	(12020208)	408036.92
	3740194.42	1.41513	(16123015)		
478	408038.24	3740166.45	1.30805	(16123015)	408037.45
	3740106.02	1.21459	(12020208)		
479	408037.45	3740075.68	1.19684	(12020208)	408050.64
	3740016.83	1.12990	(12020208)		
480	408116.35	3740034.51	1.01667	(12020208)	408099.19
	3739975.93	1.01301	(12020208)		
481	408050.90	3739972.50	1.09756	(12020208)	408031.64
	3739915.50	1.08775	(12020208)		

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          408098.67   3739906.53        0.96854  (12020208)                408032.17
          3739895.71        1.06967  (12020208)
          408029.79   3739877.76        1.05801  (12020208)                408032.96
          3739857.97        1.03510  (12020208)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 13:36:24

                                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        ,

                                              *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - - - -
          408034.54   3739829.21        1.00702  (12020208)                408118.46
          3739870.11        0.91527  (12020208)
          408107.37   3739824.46        0.89920  (12020208)                408099.19
          3739716.27        0.83154  (12020208)
          408106.85   3739752.95        0.84925  (12020208)                408100.78
          3739693.84        0.81364  (12020208)
          408038.24   3739768.78        0.94810  (12020208)                408032.96
          3739817.34        0.99885  (12020208)
          408036.13   3739727.88        0.91494  (12020208)                408035.86
          3739675.63        0.86992  (12020208)
          408037.97   3739639.48        0.83712  (12020208)                408037.71
          3739589.61        0.79659  (12020208)
          408032.17   3739560.84        0.77861  (12020208)                408102.36
          3739661.12        0.78873  (12020208)
          408104.47   3739623.91        0.76075  (12020208)                408119.51
          3739600.16        0.73157  (12020208)
          408111.33   3739580.37        0.72537  (12020208)                408109.75
          3739556.62        0.71101  (12020208)
          408095.76   3739518.36        0.69659  (12020208)                408049.06
          3739521.26        0.73430  (12020208)
          408030.32   3739469.28        0.71023  (12020208)                408051.43
          3739431.80        0.66964  (12020208)
          408048.79   3739413.07        0.65883  (12020208)                408120.04
          3739487.22        0.65972  (12020208)
          408143.26   3739399.08        0.59511  (12020208)                408113.71
          3739342.88        0.58049  (12020208)
          408036.13   3739355.28        0.62878  (12020208)                408044.31
          3739318.86        0.60199  (12020208)
          408094.71   3739318.34        0.57663  (12020208)                408030.58
          3739230.99        0.55775  (12020208)
          408044.83   3739253.95        0.56432  (12020208)                408042.46
          3739166.87        0.51938  (12020208)
          408100.51   3739231.52        0.52906  (12020208)                408095.24
          3739266.61        0.54895  (12020208)
          408153.29   3739163.17        0.47826  (12020208)                408102.36
          3739115.67        0.47509  (12020208)
          408031.11   3739101.42        0.49154  (12020208)                408024.67
          3738983.53        0.44179  (12020208)
          408020.63   3738926.41        0.42024  (12020208)                408110.61
          3738949.66        0.40822  (12020208)
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518          408105.05   3738895.07        0.39081  (12020208)                408020.24
             3738908.31        0.41352  (12020208)
519          408109.28   3738857.21        0.37769  (12020208)                408042.54
             3738847.68        0.38752  (12020208)
520          408045.02   3738755.01        0.35761  (12020208)                408109.28
             3738720.31        0.33764  (12020208)
521          408050.93   3738693.43        0.33895  (12020208)                408054.37
             3738592.56        0.31216  (12020208)
522          408101.27   3738540.13        0.30676  (16022908)                408053.60
             3738503.33        0.29516  (16022908)
523          408053.41   3738429.16        0.28001  (16022908)                408118.24
             3738418.10        0.28932  (16022908)
524          408052.46   3738369.67        0.27264  (12110708)                408134.26
             3738381.30        0.28525  (16022908)
525          408135.97   3738350.60        0.28036  (16022908)                408044.45
             3738264.61        0.27155  (12110708)
526          408117.29   3738288.25        0.26566  (16022908)                408119.00
             3738242.11        0.25854  (12110708)
527          408043.69   3738177.28        0.26790  (12110708)                408038.73
             3738205.12        0.26973  (12110708)
528          408105.85   3738177.28        0.26020  (12110708)                408100.89
             3738142.20        0.26008  (12110708)
529          408046.17   3738135.91        0.26553  (12110708)                408045.02
             3738101.59        0.26366  (12110708)
530          408047.12   3738076.04        0.26200  (12110708)                408045.21
             3738042.29        0.25993  (12110708)
531          408102.61   3738105.02        0.25873  (12110708)                408102.99
             3738048.58        0.25660  (12110708)
532          408044.83   3738009.11        0.25770  (12110708)                408044.72
             3737975.56        0.25533  (12110708)
533          408043.67   3737948.90        0.25337  (12110708)                408103.05
             3737978.72        0.25343  (12110708)
534          408103.31   3737940.46        0.25144  (12110708)                408048.42
             3737902.45        0.24990  (12110708)
535          408048.42   3737871.57        0.24750  (12110708)                408047.36
             3737836.47        0.24467  (12110708)
536          408047.36   3737814.30        0.24286  (12110708)                408098.30
             3737909.05        0.24989  (12110708)
537          408099.09   3737881.07        0.24819  (12110708)                408099.09
             3737861.81        0.24700  (12110708)
538  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
539   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:36:24
540
                                PAGE  12
541   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
542
543                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
544                                   INCLUDING SOURCE(S):     VOL1       ,
545
546                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
547
548                                         ** CONC OF NOX      IN
                                            MICROGRAMS/M**3                          **
549
550          X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
             Y-COORD (M)        CONC     (YYMMDDHH)
551   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - - - -
552          408099.62   3737832.25        0.24511  (12110708)                408097.77
             3737796.09        0.24271  (12110708)
553          408099.09   3737765.74        0.24063  (12110708)                408043.93
             3737693.95        0.23240  (12110708)
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554          408098.03   3737736.44        0.23854  (12110708)                 408113.34
             3737692.37         0.23575  (12110708)
555          408042.61   3737678.38        0.23093  (12110708)                 408043.93
             3737600.00         0.22408  (12110708)
556          408110.44   3737585.22        0.22782  (12110708)                 408044.98
             3737547.48         0.21950  (12110708)
557          408102.52   3737553.28        0.22490  (12110708)                 408048.68
             3737498.91         0.21564  (12110708)
558          408103.31   3737456.16        0.21722  (12110708)                 408133.93
             3737465.66         0.22016  (12110708)
559          408119.15   3737401.26        0.21416  (12110708)                 408016.48
             3737427.66         0.20513  (12110708)
560  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
561   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:36:24
562
                                PAGE  13
563   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
564
565                                              *** THE SUMMARY OF HIGHEST  1-HR RESULTS
                                                 ***
566
567
568                                   ** CONC OF NOX      IN
                                      MICROGRAMS/M**3                          **
569
570
                                                        DATE

                                                          NETWORK
571  GROUP ID                              AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR,
     YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
572  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - - - - - - - -
573
574  ALL      HIGH   1ST HIGH VALUE IS     142.40953  ON 14120315: AT (  407241.68,
     3740347.31,    18.00,    18.00,    2.00)  DC
575
576
577   *** RECEPTOR TYPES:  GC = GRIDCART
578                        GP = GRIDPOLR
579                        DC = DISCCART
580                        DP = DISCPOLR
581  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
582   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:36:24
583
                                PAGE  14
584   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
585
586   *** Message Summary : AERMOD Model Execution ***
587
588    --------- Summary of Total Messages --------
589
590   A Total of            0 Fatal Error Message(s)
591   A Total of            2 Warning Message(s)
592   A Total of         2285 Informational Message(s)
593
594   A Total of        43848 Hours Were Processed
595
596   A Total of         1588 Calm Hours Identified
597
```

```
598    A Total of          697 Missing Hours Identified (  1.59 Percent)
599
600
601       ******** FATAL ERROR MESSAGES ********
602                  ***  NONE  ***
603
604
605       ********   WARNING MESSAGES   ********
606    ME W186      82       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
       used           0.50
607    ME W187      82       MEOPEN: ADJ_U* Option for Stable Low Winds used in
       AERMET
608
609       ***********************************
610       *** AERMOD Finishes Successfully ***
611       ***********************************
612
613
```

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\Mitigated\16113-02 Const PM10\16113-02
Const PM10.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const PM10.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
   LOCATION PAREA1       AREAPOLY   407169.533  3740344.784       18.380
** Source Parameters **
   SRCPARAM VOL1         0.0014648631     5.000    21.791     1.400
   SRCPARAM PAREA1       3.5911E-06     0.000         4     1.000
   AREAVERT PAREA1       407169.533 3740344.784 407264.002 3740346.085
   AREAVERT PAREA1       407263.482 3740251.877 407169.533 3740251.877
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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 PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
```

```
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Const PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "16113-02 CONST PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "16113-02 Const PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\Mitigated\16113-02 Const PM10\16113-02
Const PM10.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const PM10.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
   LOCATION PAREA1       AREAPOLY   407169.533  3740344.784       18.380
** Source Parameters **
   SRCPARAM VOL1         0.0014648631     5.000    21.791     1.400
   SRCPARAM PAREA1       3.5911E-06     0.000         4     1.000
   AREAVERT PAREA1       407169.533 3740344.784 407264.002 3740346.085
   AREAVERT PAREA1       407263.482 3740251.877 407169.533 3740251.877
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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 PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
```

```
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Const PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "16113-02 CONST PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "16113-02 Const 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     101       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
```

```
      used           0.50
132   ME W187     101       MEOPEN: ADJ_U* Option for Stable Low Winds used in
      AERMET
133
134   **********************************
135   *** SETUP Finishes Successfully ***
136   **********************************
137
138   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
139   *** AERMET - VERSION  16216 ***
      ***                                                                  ***
      14:38:28
140
                                PAGE   1
141   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
142
143                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
144   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - -
145
146   ** Model Options Selected:
147        * Model Uses Regulatory DEFAULT Options
148        * Model Is Setup For Calculation of Average CONCentration Values.
149        * NO GAS DEPOSITION Data Provided.
150        * NO PARTICLE DEPOSITION Data Provided.
151        * Model Uses NO DRY DEPLETION. DDPLETE  =  F
152        * Model Uses NO WET DEPLETION. WETDPLT  =  F
153        * Stack-tip Downwash.
154        * Model Accounts for ELEVated Terrain Effects.
155        * Use Calms Processing Routine.
156        * Use Missing Data Processing Routine.
157        * No Exponential Decay.
158        * Model Uses URBAN Dispersion Algorithm for the SBL for     2 Source(s),
159          for Total of    1 Urban Area(s):
160     Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
161        * Urban Roughness Length of 1.0 Meter Used.
162        * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
163        * CCVR_Sub - Meteorological data includes CCVR substitutions
164        * TEMP_Sub - Meteorological data includes TEMP substitutions
165        * Model Accepts FLAGPOLE Receptor . Heights.
166        * The User Specified a Pollutant Type of: PM_10
167
168   **Model Calculates  1 Short Term Average(s) of:  24-HR
169
170   **This Run Includes:      2 Source(s);       1 Source Group(s); and     176 Receptor(s)
171
172                  with:      0 POINT(s), including
173                             0 POINTCAP(s) and      0 POINTHOR(s)
174                   and:      1 VOLUME source(s)
175                   and:      1 AREA type source(s)
176                   and:      0 LINE source(s)
177                   and:      0 RLINE/RLINEXT source(s)
178                   and:      0 OPENPIT source(s)
179                   and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
180                   and:      0 SWPOINT source(s)
181
182
183   **Model Set To Continue RUNning After the Setup Testing.
184
185   **The AERMET Input Meteorological Data Version Date:  16216
186
187   **Output Options Selected:
188            Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
               Keyword)
189            Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
```

```
190            Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
191
192    **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
193                                                                    m for Missing Hours
194                                                                    b for Both Calm and
                                                                       Missing Hours
195
196    **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    29.00 ;  Decay Coef.
       =    0.000     ;  Rot. Angle =     0.0
197                     Emission Units = GRAMS/SEC                          ;  Emission
                        Rate Unit Factor =   0.10000E+07
198                     Output Units   = MICROGRAMS/M**3
199
200    **Approximate Storage Requirements of Model =      3.5 MB of RAM.
201
202    **Input Runstream File:
       aermod.inp

203    **Output Print File:
       aermod.out

204
205    **Detailed Error/Message File:   16113-02 Const
       PM10.err
206    **File for Summary of Results:   16113-02 Const
       PM10.sum
207    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
208    *** AERMET - VERSION  16216 ***
       ***                                                                  ***
       14:38:28
209
                                  PAGE   2
210    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
211
212
213                                                *** VOLUME SOURCE DATA ***
214
215                 NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
                    INIT.   URBAN  EMISSION RATE   AIRCRAFT
216       SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
          SZ     SOURCE  SCALAR VARY
217         ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
            (METERS)              BY
218    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - -
219
220    VOL1             0   0.14649E-02  407216.8 3740298.7    18.4     5.00    21.79
       1.40     YES   HRDOW            NO
221    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
222    *** AERMET - VERSION  16216 ***
       ***                                                                  ***
       14:38:28
223
                                  PAGE   3
224    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
225
226
227                                              *** AREAPOLY SOURCE DATA ***
228
229                 NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER
                    INIT.   URBAN  EMISSION RATE    AIRCRAFT
230       SOURCE     PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.
          SZ     SOURCE  SCALAR VARY
231         ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
```

```
      (METERS)              BY
232   - - -
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
277    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
278   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
279                                          DAY OF WEEK = SUNDAY
280    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
281    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
282   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
283  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
284    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:38:28
285
                                PAGE   7
286    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
287
288                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                       WEEK (HRDOW) *
289
290    SOURCE ID = PAREA1       ; SOURCE TYPE = AREAPOLY :
291     HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
292    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
293                                          DAY OF WEEK = WEEKDAY
294    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .1000E+01
295    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .0000E+00
296   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
297                                          DAY OF WEEK = SATURDAY
298    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
299    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
300   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
301                                          DAY OF WEEK = SUNDAY
302    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
303    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
304   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
305  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
306    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:38:28
307
                                PAGE   8
308    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
309
310                                        *** DISCRETE CARTESIAN RECEPTORS ***
311                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
312                                                   (METERS)
313
314        ( 407197.4, 3740354.5,      18.0,      18.0,       2.0);         ( 407183.2,
           3740347.1,      18.2,      18.2,       2.0);
315        ( 407241.7, 3740347.3,      18.0,      18.0,       2.0);         ( 407108.0,
```

```
        3740378.6,      18.1,      18.1,      2.0);
316     ( 407224.1, 3740354.5,      18.0,      18.0,      2.0);      ( 407152.0,
        3740351.8,      18.5,      18.5,      2.0);
317     ( 407137.0, 3740351.2,      18.7,      18.7,      2.0);      ( 407159.6,
        3740296.7,      18.8,      18.8,      2.0);
318     ( 407297.7, 3740355.1,      18.2,      18.2,      2.0);      ( 407311.2,
        3740228.0,      19.0,      19.0,      2.0);
319     ( 407298.0, 3740416.9,      18.0,      18.0,      2.0);      ( 407263.5,
        3740425.1,      18.0,      18.0,      2.0);
320     ( 407263.7, 3740448.3,      17.8,      17.8,      2.0);      ( 407253.5,
        3740517.7,      17.1,      17.1,      2.0);
321     ( 407327.6, 3740465.7,      17.9,      17.9,      2.0);      ( 407320.0,
        3740498.7,      17.6,      17.6,      2.0);
322     ( 407304.9, 3740552.2,      17.2,      17.2,      2.0);      ( 407237.9,
        3740641.2,      17.0,      17.0,      2.0);
323     ( 407278.5, 3740698.2,      17.0,      17.0,      2.0);      ( 407244.5,
        3740705.8,      17.0,      17.0,      2.0);
324     ( 407239.7, 3740783.1,      17.0,      17.0,      2.0);      ( 407288.5,
        3740769.4,      17.0,      17.0,      2.0);
325     ( 407312.6, 3740721.7,      17.1,      17.1,      2.0);      ( 407365.6,
        3740769.2,      17.7,      17.7,      2.0);
326     ( 407462.2, 3740703.7,      18.3,      18.3,      2.0);      ( 407432.1,
        3740769.9,      18.0,      18.0,      2.0);
327     ( 407470.1, 3740781.3,      18.4,      18.4,      2.0);      ( 407542.4,
        3740786.3,      19.0,      19.0,      2.0);
328     ( 407549.8, 3740722.7,      19.0,      19.0,      2.0);      ( 407600.2,
        3740718.5,      19.1,      19.1,      2.0);
329     ( 407625.8, 3740721.4,      19.4,      19.4,      2.0);      ( 407594.9,
        3740777.1,      19.0,      19.0,      2.0);
330     ( 407632.6, 3740776.5,      19.5,      19.5,      2.0);      ( 407648.5,
        3740721.1,      19.7,      19.7,      2.0);
331     ( 407696.0, 3740777.6,      20.3,      20.3,      2.0);      ( 407734.2,
        3740777.3,      20.7,      20.7,      2.0);
332     ( 407687.5, 3740721.1,      20.0,      20.0,      2.0);      ( 407708.6,
        3740721.9,      20.1,      20.1,      2.0);
333     ( 407747.2, 3740719.3,      20.2,      20.2,      2.0);      ( 407826.9,
        3740725.1,      20.0,      20.0,      2.0);
334     ( 407834.0, 3740775.2,      20.0,      20.0,      2.0);      ( 407890.2,
        3740776.0,      20.0,      20.0,      2.0);
335     ( 408036.6, 3740709.8,      19.2,      19.2,      2.0);      ( 407940.1,
        3740773.1,      20.0,      20.0,      2.0);
336     ( 408001.0, 3740769.9,      19.7,      19.7,      2.0);      ( 408098.9,
        3740786.0,      19.0,      19.0,      2.0);
337     ( 408037.5, 3740766.8,      19.2,      19.2,      2.0);      ( 408143.3,
        3740705.8,      19.0,      19.0,      2.0);
338     ( 408047.5, 3740685.0,      19.1,      19.1,      2.0);      ( 408047.7,
        3740646.4,      19.0,      19.0,      2.0);
339     ( 408114.8, 3740578.4,      19.0,      19.0,      2.0);      ( 408044.0,
        3740580.2,      19.0,      19.0,      2.0);
340     ( 408003.4, 3740456.2,      19.0,      19.0,      2.0);      ( 408103.4,
        3740460.9,      19.0,      19.0,      2.0);
341     ( 408116.1, 3740373.9,      19.0,      19.0,      2.0);      ( 408040.3,
        3740381.5,      19.1,      19.1,      2.0);
342     ( 408035.6, 3740363.0,      19.1,      19.1,      2.0);      ( 408037.7,
        3740330.1,      19.2,      19.2,      2.0);
343     ( 408108.7, 3740314.5,      19.0,      19.0,      2.0);      ( 408036.1,
        3740271.2,      19.2,      19.2,      2.0);
344     ( 408036.9, 3740242.4,      19.2,      19.2,      2.0);      ( 408101.0,
        3740277.0,      19.0,      19.0,      2.0);
345     ( 408103.9, 3740244.0,      19.0,      19.0,      2.0);      ( 408101.6,
        3740214.5,      19.0,      19.0,      2.0);
346     ( 408100.5, 3740178.1,      19.0,      19.0,      2.0);      ( 408102.1,
        3740150.6,      19.0,      19.0,      2.0);
347     ( 408102.9, 3740094.4,      18.6,      18.6,      2.0);      ( 408036.9,
        3740194.4,      19.1,      19.1,      2.0);
348     ( 408038.2, 3740166.4,      19.0,      19.0,      2.0);      ( 408037.5,
```

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      3740106.0,      19.0,      19.0,       2.0);
349   (  408037.5, 3740075.7,      19.0,      19.0,       2.0);         (  408050.6,
      3740016.8,      18.6,      18.6,       2.0);
350   (  408116.3, 3740034.5,      18.1,      18.1,       2.0);         (  408099.2,
      3739975.9,      18.1,      18.1,       2.0);
351   (  408050.9, 3739972.5,      18.1,      18.1,       2.0);         (  408031.6,
      3739915.5,      17.5,      17.5,       2.0);
352   (  408098.7, 3739906.5,      17.4,      17.4,       2.0);         (  408032.2,
      3739895.7,      17.3,      17.3,       2.0);
353   (  408029.8, 3739877.8,      17.1,      17.1,       2.0);         (  408033.0,
      3739858.0,      17.0,      17.0,       2.0);
354   (  408034.5, 3739829.2,      17.0,      17.0,       2.0);         (  408118.5,
      3739870.1,      17.0,      17.0,       2.0);
355   (  408107.4, 3739824.5,      17.0,      17.0,       2.0);         (  408099.2,
      3739716.3,      16.3,      16.3,       2.0);
356   (  408106.8, 3739752.9,      16.7,      16.7,       2.0);         (  408100.8,
      3739693.8,      16.1,      16.1,       2.0);
357   (  408038.2, 3739768.8,      16.9,      16.9,       2.0);         (  408033.0,
      3739817.3,      17.0,      17.0,       2.0);
358   (  408036.1, 3739727.9,      16.5,      16.5,       2.0);         (  408035.9,
      3739675.6,      16.0,      16.0,       2.0);
359   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
360    *** AERMET - VERSION  16216 ***
       ***                                                                        ***
       14:38:28
361
                                  PAGE   9
362    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
363
364                                                *** DISCRETE CARTESIAN RECEPTORS ***
365                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
366                                                          (METERS)
367
368   (  408038.0, 3739639.5,      16.0,      16.0,       2.0);         (  408037.7,
      3739589.6,      16.0,      16.0,       2.0);
369   (  408032.2, 3739560.8,      16.0,      16.0,       2.0);         (  408102.4,
      3739661.1,      16.0,      16.0,       2.0);
370   (  408104.5, 3739623.9,      16.0,      16.0,       2.0);         (  408119.5,
      3739600.2,      16.0,      16.0,       2.0);
371   (  408111.3, 3739580.4,      16.0,      16.0,       2.0);         (  408109.8,
      3739556.6,      16.0,      16.0,       2.0);
372   (  408095.8, 3739518.4,      16.0,      16.0,       2.0);         (  408049.1,
      3739521.3,      16.0,      16.0,       2.0);
373   (  408030.3, 3739469.3,      15.7,      15.7,       2.0);         (  408051.4,
      3739431.8,      15.3,      15.3,       2.0);
374   (  408048.8, 3739413.1,      15.1,      15.1,       2.0);         (  408120.0,
      3739487.2,      15.9,      15.9,       2.0);
375   (  408143.3, 3739399.1,      15.0,      15.0,       2.0);         (  408113.7,
      3739342.9,      15.0,      15.0,       2.0);
376   (  408036.1, 3739355.3,      15.0,      15.0,       2.0);         (  408044.3,
      3739318.9,      15.0,      15.0,       2.0);
377   (  408094.7, 3739318.3,      15.0,      15.0,       2.0);         (  408030.6,
      3739231.0,      15.0,      15.0,       2.0);
378   (  408044.8, 3739253.9,      15.0,      15.0,       2.0);         (  408042.5,
      3739166.9,      15.0,      15.0,       2.0);
379   (  408100.5, 3739231.5,      15.0,      15.0,       2.0);         (  408095.2,
      3739266.6,      15.0,      15.0,       2.0);
380   (  408153.3, 3739163.2,      15.0,      15.0,       2.0);         (  408102.4,
      3739115.7,      15.0,      15.0,       2.0);
381   (  408031.1, 3739101.4,      15.0,      15.0,       2.0);         (  408024.7,
      3738983.5,      15.0,      15.0,       2.0);
382   (  408020.6, 3738926.4,      15.0,      15.0,       2.0);         (  408110.6,
      3738949.7,      15.0,      15.0,       2.0);
383   (  408105.0, 3738895.1,      15.0,      15.0,       2.0);         (  408020.2,
      3738908.3,      15.0,      15.0,       2.0);
```

```
384        ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
           3738847.7,      15.0,      15.0,       2.0);
385        ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
           3738720.3,      15.0,      15.0,       2.0);
386        ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
           3738592.6,      15.0,      15.0,       2.0);
387        ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
           3738503.3,      15.0,      15.0,       2.0);
388        ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
           3738418.1,      15.0,      15.0,       2.0);
389        ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
           3738381.3,      15.0,      15.0,       2.0);
390        ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
           3738264.6,      15.0,      15.0,       2.0);
391        ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
           3738242.1,      15.0,      15.0,       2.0);
392        ( 408043.7, 3738177.3,      15.0,      15.0,       2.0);         ( 408038.7,
           3738205.1,      15.0,      15.0,       2.0);
393        ( 408105.8, 3738177.3,      15.0,      15.0,       2.0);         ( 408100.9,
           3738142.2,      15.0,      15.0,       2.0);
394        ( 408046.2, 3738135.9,      15.0,      15.0,       2.0);         ( 408045.0,
           3738101.6,      15.0,      15.0,       2.0);
395        ( 408047.1, 3738076.0,      15.0,      15.0,       2.0);         ( 408045.2,
           3738042.3,      15.0,      15.0,       2.0);
396        ( 408102.6, 3738105.0,      15.0,      15.0,       2.0);         ( 408103.0,
           3738048.6,      15.0,      15.0,       2.0);
397        ( 408044.8, 3738009.1,      15.0,      15.0,       2.0);         ( 408044.7,
           3737975.6,      15.0,      15.0,       2.0);
398        ( 408043.7, 3737948.9,      15.0,      15.0,       2.0);         ( 408103.0,
           3737978.7,      15.0,      15.0,       2.0);
399        ( 408103.3, 3737940.5,      15.0,      15.0,       2.0);         ( 408048.4,
           3737902.4,      15.0,      15.0,       2.0);
400        ( 408048.4, 3737871.6,      15.0,      15.0,       2.0);         ( 408047.4,
           3737836.5,      15.0,      15.0,       2.0);
401        ( 408047.4, 3737814.3,      15.0,      15.0,       2.0);         ( 408098.3,
           3737909.0,      15.0,      15.0,       2.0);
402        ( 408099.1, 3737881.1,      15.0,      15.0,       2.0);         ( 408099.1,
           3737861.8,      15.0,      15.0,       2.0);
403        ( 408099.6, 3737832.2,      15.0,      15.0,       2.0);         ( 408097.8,
           3737796.1,      15.0,      15.0,       2.0);
404        ( 408099.1, 3737765.7,      15.0,      15.0,       2.0);         ( 408043.9,
           3737693.9,      15.0,      15.0,       2.0);
405        ( 408098.0, 3737736.4,      15.0,      15.0,       2.0);         ( 408113.3,
           3737692.4,      15.0,      15.0,       2.0);
406        ( 408042.6, 3737678.4,      15.0,      15.0,       2.0);         ( 408043.9,
           3737600.0,      15.0,      15.0,       2.0);
407        ( 408110.4, 3737585.2,      15.0,      15.0,       2.0);         ( 408045.0,
           3737547.5,      15.1,      15.1,       2.0);
408        ( 408102.5, 3737553.3,      15.0,      15.0,       2.0);         ( 408048.7,
           3737498.9,      15.4,      15.4,       2.0);
409        ( 408103.3, 3737456.2,      15.0,      15.0,       2.0);         ( 408133.9,
           3737465.7,      15.0,      15.0,       2.0);
410        ( 408119.1, 3737401.3,      15.0,      15.0,       2.0);         ( 408016.5,
           3737427.7,      16.0,      16.0,       2.0);
411    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
412     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        14:38:28
413
                                    PAGE  10
414     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
415
416                                              *** METEOROLOGICAL DAYS SELECTED FOR
                                                 PROCESSING ***
417                                                          (1=YES; 0=NO)
```

```
418
419             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
420             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
421             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
422             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
423             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
424             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
425             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
426             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
427
428                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                    IS INCLUDED IN THE DATA FILE.
429
430
431
432                                     *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                        CATEGORIES ***
433                                                          (METERS/SEC)
434
435                                                    1.54,   3.09,   5.14,   8.23,  10.80,
436  *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
437   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:38:28
438
                                  PAGE  11
439   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
440
441                                     *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                        ***
442
443       Surface file:
          ..\KFUL_V9_ADJU\KFUL_v9.SFC
          Met Version:  16216
444       Profile file:
          ..\KFUL_V9_ADJU\KFUL_v9.PFL
445       Surface format:
          FREE

446       Profile format:
          FREE

447       Surface station no.:     3166                  Upper air station no.:     3190
448                       Name: UNKNOWN                                 Name:
                          UNKNOWN
449                       Year:   2012                                  Year:   2012
450
451    First 24 hours of scalar data
452    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
453  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - - - -
454    12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
       0.96  322.   10.1  283.8    2.0
455    12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
       0.52   13.   10.1  283.1    2.0
456    12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
       0.75   73.   10.1  282.0    2.0
```

```
457   12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
      0.91   98.   10.1  281.4    2.0
458   12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
      0.00    0.   10.1  280.9    2.0
459   12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
      0.55   80.   10.1  280.4    2.0
460   12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.69  201.   10.1  280.4    2.0
461   12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
      0.52   72.   10.1  280.9    2.0
462   12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
      0.00    0.   10.1  285.9    2.0
463   12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
      0.79  268.   10.1  289.9    2.0
464   12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
      0.70  273.   10.1  294.2    2.0
465   12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
      0.74  230.   10.1  297.5    2.0
466   12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
      1.20  227.   10.1  300.4    2.0
467   12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
      1.47  233.   10.1  300.9    2.0
468   12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
      1.20  233.   10.1  302.0    2.0
469   12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
      1.91  229.   10.1  298.1    2.0
470   12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
      1.37  212.   10.1  294.2    2.0
471   12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
      0.91  190.   10.1  292.0    2.0
472   12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.70  302.   10.1  289.2    2.0
473   12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
      0.87  338.   10.1  288.1    2.0
474   12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
      1.11  304.   10.1  287.0    2.0
475   12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   76.   10.1  285.4    2.0
476   12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
      0.62  306.   10.1  284.9    2.0
477   12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
      0.82  318.   10.1  283.8    2.0
478
479
480   First hour of profile data
481   YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
482   12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
483
484   F indicates top of profile (=1) or below (=0)
485   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
486   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:38:28
487
                                PAGE  12
488   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
489
490                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
491                                   INCLUDING SOURCE(S):     VOL1        , PAREA1      ,
492
493                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
494
495                                         ** CONC OF PM_10    IN
                                            MICROGRAMS/M**3                          **
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
407197.41	3740354.49	7.60182c	(13020524)	407183.18	3740347.13	9.30691c	(13020524)
407241.68	3740347.31	10.19611c	(13020524)	407108.00	3740378.65	1.06099c	(12122824)
407224.06	3740354.48	7.92804c	(13020524)	407152.04	3740351.83	2.77533c	(12122824)
407136.97	3740351.17	2.22373c	(12122824)	407159.65	3740296.70	7.31008c	(14120524)
407297.73	3740355.14	2.49061c	(14013124)	407311.17	3740228.02	2.08268c	(14011524)
407298.05	3740416.88	1.31806	(12021324)	407263.48	3740425.06	1.47511	(12021324)
407263.74	3740448.28	1.08285	(12021324)	407253.45	3740517.68	0.52871	(15042124)
407327.60	3740465.69	0.75851	(12021324)	407319.95	3740498.68	0.65416	(12021324)
407304.91	3740552.25	0.42627	(12021324)	407237.88	3740641.18	0.22989	(15042124)
407278.52	3740698.17	0.19215m	(12052524)	407244.48	3740705.83	0.17234c	(13020624)
407239.73	3740783.14	0.13324c	(13020624)	407288.55	3740769.42	0.14549m	(12052524)
407312.56	3740721.66	0.18695c	(13020524)	407365.60	3740769.16	0.16527	(14120824)
407462.18	3740703.72	0.18874	(12021324)	407432.10	3740769.95	0.15508	(12021324)
407470.10	3740781.30	0.14994	(12021324)	407542.40	3740786.31	0.12368	(12021324)
407549.79	3740722.71	0.11439	(12021324)	407600.19	3740718.49	0.09541	(15122224)
407625.79	3740721.40	0.09523	(15122224)	407594.92	3740777.07	0.08926	(12021324)
407632.65	3740776.55	0.07071	(15122224)	407648.48	3740721.13	0.09265	(15122224)
407695.98	3740777.60	0.07406	(15122224)	407734.24	3740777.34	0.06975c	(14013124)
407687.54	3740721.13	0.08936c	(14013124)	407708.65	3740721.92	0.09232c	(14013124)
407747.18	3740719.28	0.09619c	(14013124)	407826.87	3740725.09	0.08917c	(14013124)
407833.99	3740775.23	0.07920c	(14013124)	407890.20	3740776.02	0.07591c	(14013124)
408036.65	3740709.78	0.04625c	(14013124)	407940.07	3740773.12	0.07005c	(14013124)
408001.03	3740769.95	0.06032c	(14013124)	408098.93	3740786.05	0.04632c	(14013124)
408037.45	3740766.78	0.05394c	(14013124)	408143.26	3740705.83	0.04544m	(15010524)
408047.47	3740684.98	0.04859m	(15010524)	408047.74	3740646.45	0.05619m	(15010524)
408114.76	3740578.37	0.05333m	(15010524)	408044.04	3740580.22	0.06133m	(15010524)
408003.40	3740456.19	0.04683	(13020824)	408103.42	3740460.94	0.04070	(13020824)
408116.08	3740373.86	0.05924	(14120424)	408040.35	3740381.52	0.06398	(14120424)
408035.60	3740363.04	0.06825	(14120424)	408037.71	3740330.06	0.07783	(15012824)
408108.69	3740314.49	0.07243	(15012824)	408036.13	3740271.21	0.08303	(15012824)
408036.92	3740242.45	0.07858	(15012824)	408101.04			

```
          3740277.02        0.07528  (15012824)
530       408103.94   3740244.03        0.07159  (15012824)                 408101.57
          3740214.48        0.07112  (15011924)
531       408100.51   3740178.06        0.07404  (15011924)                 408102.10
          3740150.62        0.07428  (12021724)
532       408102.89   3740094.41        0.07603  (12021724)                 408036.92
          3740194.42        0.08173  (15011924)
533       408038.24   3740166.45        0.08122  (12021724)                 408037.45
          3740106.02        0.08382  (12021724)
534       408037.45   3740075.68        0.07841  (12021724)                 408050.64
          3740016.83        0.08456  (13020424)
535       408116.35   3740034.51        0.07020  (13020424)                 408099.19
          3739975.93        0.07959  (13020424)
536       408050.90   3739972.50        0.08472  (13020424)                 408031.64
          3739915.50        0.07785  (16012124)
537       408098.67   3739906.53        0.07123  (13020424)                 408032.17
          3739895.71        0.07596  (16012124)
538       408029.79   3739877.76        0.07331  (16012124)                 408032.96
          3739857.97        0.07305c (13122324)
539  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
540   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:38:28
541
                                PAGE  13
542   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
543
544                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
545                                   INCLUDING SOURCE(S):     VOL1        , PAREA1      ,
546
547                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
548
549                                         ** CONC OF PM_10    IN
                                            MICROGRAMS/M**3                          **
550
551         X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
            Y-COORD (M)        CONC     (YYMMDDHH)
552   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
553       408034.54   3739829.21        0.07739c (13122324)                 408118.46
          3739870.11        0.06764  (16012124)
554       408107.37   3739824.46        0.06250  (16012124)                 408099.19
          3739716.27        0.07380c (13122324)
555       408106.85   3739752.95        0.07134c (13122324)                 408100.78
          3739693.84        0.07321c (13122324)
556       408038.24   3739768.78        0.08168c (13122324)                 408032.96
          3739817.34        0.07927c (13122324)
557       408036.13   3739727.88        0.08091c (13122324)                 408035.86
          3739675.63        0.08061m (13010324)
558       408037.97   3739639.48        0.08336b (12020824)                 408037.71
          3739589.61        0.08575b (12020824)
559       408032.17   3739560.84        0.08517b (12020824)                 408102.36
          3739661.12        0.07099c (13122324)
560       408104.47   3739623.91        0.07206m (13010324)                 408119.51
          3739600.16        0.07098m (13010324)
561       408111.33   3739580.37        0.07377b (12020824)                 408109.75
          3739556.62        0.07572b (12020824)
562       408095.76   3739518.36        0.07768b (12020824)                 408049.06
          3739521.26        0.08064b (12020824)
563       408030.32   3739469.28        0.07190b (12020824)                 408051.43
          3739431.80        0.06631b (12020824)
564       408048.79   3739413.07        0.06224b (12020824)                 408120.04
          3739487.22        0.07448b (12020824)
565       408143.26   3739399.08        0.06623b (12020824)                 408113.71
```

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          3739342.88        0.05570b (12020824)
566       408036.13   3739355.28        0.04832b (12020824)                408044.31
          3739318.86        0.04690c (13020124)
567       408094.71   3739318.34        0.04905b (12020824)                408030.58
          3739230.99        0.04571  (12012524)
568       408044.83   3739253.95        0.04536  (12012524)                408042.46
          3739166.87        0.04363  (16121224)
569       408100.51   3739231.52        0.04219c (13020124)                408095.24
          3739266.61        0.04346c (13020124)
570       408153.29   3739163.17        0.03882c (13020124)                408102.36
          3739115.67        0.04006  (12012524)
571       408031.11   3739101.42        0.04452c (12011824)                408024.67
          3738983.53        0.04482c (12011824)
572       408020.63   3738926.41        0.04335c (12011824)                408110.61
          3738949.66        0.03973c (12011824)
573       408105.05   3738895.07        0.04015c (12011824)                408020.24
          3738908.31        0.04269c (12011824)
574       408109.28   3738857.21        0.03961c (12011824)                408042.54
          3738847.68        0.04040c (12011824)
575       408045.02   3738755.01        0.03636c (12011824)                408109.28
          3738720.31        0.03626c (12011824)
576       408050.93   3738693.43        0.03478c (14010324)                408054.37
          3738592.56        0.03233c (14010324)
577       408101.27   3738540.13        0.03104c (14010324)                408053.60
          3738503.33        0.02942c (14010324)
578       408053.41   3738429.16        0.02876c (14011024)                408118.24
          3738418.10        0.02808c (14010324)
579       408052.46   3738369.67        0.02844c (14011024)                408134.26
          3738381.30        0.02732c (14010324)
580       408135.97   3738350.60        0.02651c (14010324)                408044.45
          3738264.61        0.02735c (14011024)
581       408117.29   3738288.25        0.02596c (14011024)                408119.00
          3738242.11        0.02574c (14011024)
582       408043.69   3738177.28        0.02589c (14011024)                408038.73
          3738205.12        0.02638c (14011024)
583       408105.85   3738177.28        0.02552c (14011024)                408100.89
          3738142.20        0.02519c (14011024)
584       408046.17   3738135.91        0.02562c (16121324)                408045.02
          3738101.59        0.02567c (16121324)
585       408047.12   3738076.04        0.02557c (16121324)                408045.21
          3738042.29        0.02554c (16121324)
586       408102.61   3738105.02        0.02471c (14011024)                408102.99
          3738048.58        0.02391c (14011024)
587       408044.83   3738009.11        0.02543c (16121324)                408044.72
          3737975.56        0.02526c (16121324)
588       408043.67   3737948.90        0.02511c (16121324)                408103.05
          3737978.72        0.02349c (16121324)
589       408103.31   3737940.46        0.02349c (16121324)                408048.42
          3737902.45        0.02469c (16121324)
590       408048.42   3737871.57        0.02443c (16121324)                408047.36
          3737836.47        0.02412c (16121324)
591       408047.36   3737814.30        0.02390c (16121324)                408098.30
          3737909.05        0.02360c (16121324)
592       408099.09   3737881.07        0.02351c (16121324)                408099.09
          3737861.81        0.02345c (16121324)
593   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
594    *** AERMET - VERSION  16216 ***
       ***                                                                  ***
       14:38:28
595
                                  PAGE  14
596    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
597
598                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                   FOR SOURCE GROUP:  ALL      ***
```

```
                                    INCLUDING SOURCE(S):     VOL1        , PAREA1      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10    IN
                                              MICROGRAMS/M**3                          **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
      Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
        408099.62   3737832.25        0.02332c (16121324)               408097.77
        3737796.09        0.02317c (16121324)
        408099.09   3737765.74        0.02296c (16121324)               408043.93
        3737693.95        0.02253c (16121324)
        408098.03   3737736.44        0.02277c (16121324)               408113.34
        3737692.37        0.02228c (16121324)
        408042.61   3737678.38        0.02233c (16121324)               408043.93
        3737600.00        0.02131c (16121324)
        408110.44   3737585.22        0.02143c (16121324)               408044.98
        3737547.48        0.02061c (16121324)
        408102.52   3737553.28        0.02112c (16121324)               408048.68
        3737498.91        0.01999c (16121324)
        408103.31   3737456.16        0.02007c (16121324)               408133.93
        3737465.66        0.02030c (16121324)
        408119.15   3737401.26        0.01957c (16121324)               408016.48
        3737427.66        0.01832c (16121324)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                              ***
 14:38:28

                              PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST 24-HR RESULTS
                                                ***


                                    ** CONC OF PM_10    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      10.19611c ON 13020524: AT (  407241.68,
3740347.31,    18.00,    18.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                              ***
 14:38:28
```

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

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

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of         2285 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1588 Calm Hours Identified

A Total of          697 Missing Hours Identified (  1.59 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186     101       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
used           0.50
ME W187     101       MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

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

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const PM25\16113-02 Const PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
   LOCATION PAREA1       AREAPOLY   407169.533  3740344.784       18.380
** Source Parameters **
   SRCPARAM VOL1         0.0106016838     5.000    21.791     1.400
   SRCPARAM PAREA1       1.6178E-06     0.000         4     1.000
   AREAVERT PAREA1       407169.533 3740344.784 407264.002 3740346.085
   AREAVERT PAREA1       407263.482 3740251.877 407169.533 3740251.877
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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 PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
```

```
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Const PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "16113-02 CONST PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "16113-02 Const PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const PM25\16113-02 Const PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Const PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
   LOCATION PAREA1       AREAPOLY   407169.533  3740344.784       18.380
** Source Parameters **
   SRCPARAM VOL1         0.0106016838     5.000    21.791     1.400
   SRCPARAM PAREA1       1.6178E-06     0.000         4     1.000
   AREAVERT PAREA1       407169.533 3740344.784 407264.002 3740346.085
   AREAVERT PAREA1       407263.482 3740251.877 407169.533 3740251.877
   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 1.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 0.0 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 PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
```

```
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Const PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "16113-02 CONST PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "16113-02 Const 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     101       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
 used           0.50
```

```
 ME W187     101       MEOPEN: ADJ_U* Option for Stable Low Winds used in
 AERMET

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

FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 13:54:25

                              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     2 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: PM_2.5

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:      2 Source(s);       1 Source Group(s); and     176 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:      1 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
          Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
```

```
191
192   **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
193                                                                   m for Missing Hours
194                                                                   b for Both Calm and
                                                                      Missing Hours
195
196   **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    29.00 ;  Decay Coef.
      =    0.000     ;  Rot. Angle =     0.0
197                    Emission Units = GRAMS/SEC                          ;  Emission
                       Rate Unit Factor =   0.10000E+07
198                    Output Units   = MICROGRAMS/M**3
199
200   **Approximate Storage Requirements of Model =      3.5 MB of RAM.
201
202   **Input Runstream File:
      aermod.inp

203   **Output Print File:
      aermod.out

204
205   **Detailed Error/Message File:   16113-02 Const
      PM25.err
206   **File for Summary of Results:   16113-02 Const
      PM25.sum
207   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
208    *** AERMET - VERSION  16216 ***
       ***                                                                  ***
       13:54:25
209
                                  PAGE   2
210   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
211
212
213                                                  *** VOLUME SOURCE DATA ***
214
215                 NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
                    INIT.   URBAN  EMISSION RATE   AIRCRAFT
216     SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
        SZ     SOURCE  SCALAR VARY
217       ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
          (METERS)              BY
218   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - -
219
220    VOL1             0   0.10602E-01  407216.8 3740298.7    18.4     5.00    21.79
       1.40     YES   HRDOW            NO
221   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
222    *** AERMET - VERSION  16216 ***
       ***                                                                  ***
       13:54:25
223
                                  PAGE   3
224   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
225
226
227                                                *** AREAPOLY SOURCE DATA ***
228
229                 NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER
                    INIT.   URBAN  EMISSION RATE    AIRCRAFT
230     SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.
        SZ     SOURCE  SCALAR VARY
231       ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
          (METERS)              BY
```

```
232   - - -
```

```
277       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
278      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
279                                              DAY OF WEEK = SUNDAY
280       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
281       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
282      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
283  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
284   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:54:25
285
                                  PAGE   7
286   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
287
288                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
                        WEEK (HRDOW) *
289
290   SOURCE ID = PAREA1       ; SOURCE TYPE = AREAPOLY :
291    HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
       SCALAR   HOUR   SCALAR   HOUR   SCALAR
292   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - - - - - -
293                                              DAY OF WEEK = WEEKDAY
294       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .1000E+01
295       9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
          .1000E+01   15  .1000E+01   16  .0000E+00
296      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
297                                              DAY OF WEEK = SATURDAY
298       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
299       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
300      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
301                                              DAY OF WEEK = SUNDAY
302       1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
          .0000E+00    7  .0000E+00    8  .0000E+00
303       9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
          .0000E+00   15  .0000E+00   16  .0000E+00
304      17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
          .0000E+00   23  .0000E+00   24  .0000E+00
305  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
306   *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:54:25
307
                                  PAGE   8
308   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
309
310                                        *** DISCRETE CARTESIAN RECEPTORS ***
311                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
312                                                   (METERS)
313
314       ( 407197.4, 3740354.5,      18.0,      18.0,       2.0);         ( 407183.2,
          3740347.1,      18.2,      18.2,       2.0);
315       ( 407241.7, 3740347.3,      18.0,      18.0,       2.0);         ( 407108.0,
          3740378.6,      18.1,      18.1,       2.0);
```

```
316         ( 407224.1, 3740354.5,      18.0,      18.0,       2.0);         ( 407152.0,
            3740351.8,      18.5,      18.5,       2.0);
317         ( 407137.0, 3740351.2,      18.7,      18.7,       2.0);         ( 407159.6,
            3740296.7,      18.8,      18.8,       2.0);
318         ( 407297.7, 3740355.1,      18.2,      18.2,       2.0);         ( 407311.2,
            3740228.0,      19.0,      19.0,       2.0);
319         ( 407298.0, 3740416.9,      18.0,      18.0,       2.0);         ( 407263.5,
            3740425.1,      18.0,      18.0,       2.0);
320         ( 407263.7, 3740448.3,      17.8,      17.8,       2.0);         ( 407253.5,
            3740517.7,      17.1,      17.1,       2.0);
321         ( 407327.6, 3740465.7,      17.9,      17.9,       2.0);         ( 407320.0,
            3740498.7,      17.6,      17.6,       2.0);
322         ( 407304.9, 3740552.2,      17.2,      17.2,       2.0);         ( 407237.9,
            3740641.2,      17.0,      17.0,       2.0);
323         ( 407278.5, 3740698.2,      17.0,      17.0,       2.0);         ( 407244.5,
            3740705.8,      17.0,      17.0,       2.0);
324         ( 407239.7, 3740783.1,      17.0,      17.0,       2.0);         ( 407288.5,
            3740769.4,      17.0,      17.0,       2.0);
325         ( 407312.6, 3740721.7,      17.1,      17.1,       2.0);         ( 407365.6,
            3740769.2,      17.7,      17.7,       2.0);
326         ( 407462.2, 3740703.7,      18.3,      18.3,       2.0);         ( 407432.1,
            3740769.9,      18.0,      18.0,       2.0);
327         ( 407470.1, 3740781.3,      18.4,      18.4,       2.0);         ( 407542.4,
            3740786.3,      19.0,      19.0,       2.0);
328         ( 407549.8, 3740722.7,      19.0,      19.0,       2.0);         ( 407600.2,
            3740718.5,      19.1,      19.1,       2.0);
329         ( 407625.8, 3740721.4,      19.4,      19.4,       2.0);         ( 407594.9,
            3740777.1,      19.0,      19.0,       2.0);
330         ( 407632.6, 3740776.5,      19.5,      19.5,       2.0);         ( 407648.5,
            3740721.1,      19.7,      19.7,       2.0);
331         ( 407696.0, 3740777.6,      20.3,      20.3,       2.0);         ( 407734.2,
            3740777.3,      20.7,      20.7,       2.0);
332         ( 407687.5, 3740721.1,      20.0,      20.0,       2.0);         ( 407708.6,
            3740721.9,      20.1,      20.1,       2.0);
333         ( 407747.2, 3740719.3,      20.2,      20.2,       2.0);         ( 407826.9,
            3740725.1,      20.0,      20.0,       2.0);
334         ( 407834.0, 3740775.2,      20.0,      20.0,       2.0);         ( 407890.2,
            3740776.0,      20.0,      20.0,       2.0);
335         ( 408036.6, 3740709.8,      19.2,      19.2,       2.0);         ( 407940.1,
            3740773.1,      20.0,      20.0,       2.0);
336         ( 408001.0, 3740769.9,      19.7,      19.7,       2.0);         ( 408098.9,
            3740786.0,      19.0,      19.0,       2.0);
337         ( 408037.5, 3740766.8,      19.2,      19.2,       2.0);         ( 408143.3,
            3740705.8,      19.0,      19.0,       2.0);
338         ( 408047.5, 3740685.0,      19.1,      19.1,       2.0);         ( 408047.7,
            3740646.4,      19.0,      19.0,       2.0);
339         ( 408114.8, 3740578.4,      19.0,      19.0,       2.0);         ( 408044.0,
            3740580.2,      19.0,      19.0,       2.0);
340         ( 408003.4, 3740456.2,      19.0,      19.0,       2.0);         ( 408103.4,
            3740460.9,      19.0,      19.0,       2.0);
341         ( 408116.1, 3740373.9,      19.0,      19.0,       2.0);         ( 408040.3,
            3740381.5,      19.1,      19.1,       2.0);
342         ( 408035.6, 3740363.0,      19.1,      19.1,       2.0);         ( 408037.7,
            3740330.1,      19.2,      19.2,       2.0);
343         ( 408108.7, 3740314.5,      19.0,      19.0,       2.0);         ( 408036.1,
            3740271.2,      19.2,      19.2,       2.0);
344         ( 408036.9, 3740242.4,      19.2,      19.2,       2.0);         ( 408101.0,
            3740277.0,      19.0,      19.0,       2.0);
345         ( 408103.9, 3740244.0,      19.0,      19.0,       2.0);         ( 408101.6,
            3740214.5,      19.0,      19.0,       2.0);
346         ( 408100.5, 3740178.1,      19.0,      19.0,       2.0);         ( 408102.1,
            3740150.6,      19.0,      19.0,       2.0);
347         ( 408102.9, 3740094.4,      18.6,      18.6,       2.0);         ( 408036.9,
            3740194.4,      19.1,      19.1,       2.0);
348         ( 408038.2, 3740166.4,      19.0,      19.0,       2.0);         ( 408037.5,
            3740106.0,      19.0,      19.0,       2.0);
```

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349       ( 408037.5, 3740075.7,      19.0,      19.0,       2.0);         ( 408050.6,
          3740016.8,      18.6,      18.6,       2.0);
350       ( 408116.3, 3740034.5,      18.1,      18.1,       2.0);         ( 408099.2,
          3739975.9,      18.1,      18.1,       2.0);
351       ( 408050.9, 3739972.5,      18.1,      18.1,       2.0);         ( 408031.6,
          3739915.5,      17.5,      17.5,       2.0);
352       ( 408098.7, 3739906.5,      17.4,      17.4,       2.0);         ( 408032.2,
          3739895.7,      17.3,      17.3,       2.0);
353       ( 408029.8, 3739877.8,      17.1,      17.1,       2.0);         ( 408033.0,
          3739858.0,      17.0,      17.0,       2.0);
354       ( 408034.5, 3739829.2,      17.0,      17.0,       2.0);         ( 408118.5,
          3739870.1,      17.0,      17.0,       2.0);
355       ( 408107.4, 3739824.5,      17.0,      17.0,       2.0);         ( 408099.2,
          3739716.3,      16.3,      16.3,       2.0);
356       ( 408106.8, 3739752.9,      16.7,      16.7,       2.0);         ( 408100.8,
          3739693.8,      16.1,      16.1,       2.0);
357       ( 408038.2, 3739768.8,      16.9,      16.9,       2.0);         ( 408033.0,
          3739817.3,      17.0,      17.0,       2.0);
358       ( 408036.1, 3739727.9,      16.5,      16.5,       2.0);         ( 408035.9,
          3739675.6,      16.0,      16.0,       2.0);
359   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
360    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:54:25
361
                                    PAGE   9
362    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
363
364                                                *** DISCRETE CARTESIAN RECEPTORS ***
365                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
366                                                          (METERS)
367
368       ( 408038.0, 3739639.5,      16.0,      16.0,       2.0);         ( 408037.7,
          3739589.6,      16.0,      16.0,       2.0);
369       ( 408032.2, 3739560.8,      16.0,      16.0,       2.0);         ( 408102.4,
          3739661.1,      16.0,      16.0,       2.0);
370       ( 408104.5, 3739623.9,      16.0,      16.0,       2.0);         ( 408119.5,
          3739600.2,      16.0,      16.0,       2.0);
371       ( 408111.3, 3739580.4,      16.0,      16.0,       2.0);         ( 408109.8,
          3739556.6,      16.0,      16.0,       2.0);
372       ( 408095.8, 3739518.4,      16.0,      16.0,       2.0);         ( 408049.1,
          3739521.3,      16.0,      16.0,       2.0);
373       ( 408030.3, 3739469.3,      15.7,      15.7,       2.0);         ( 408051.4,
          3739431.8,      15.3,      15.3,       2.0);
374       ( 408048.8, 3739413.1,      15.1,      15.1,       2.0);         ( 408120.0,
          3739487.2,      15.9,      15.9,       2.0);
375       ( 408143.3, 3739399.1,      15.0,      15.0,       2.0);         ( 408113.7,
          3739342.9,      15.0,      15.0,       2.0);
376       ( 408036.1, 3739355.3,      15.0,      15.0,       2.0);         ( 408044.3,
          3739318.9,      15.0,      15.0,       2.0);
377       ( 408094.7, 3739318.3,      15.0,      15.0,       2.0);         ( 408030.6,
          3739231.0,      15.0,      15.0,       2.0);
378       ( 408044.8, 3739253.9,      15.0,      15.0,       2.0);         ( 408042.5,
          3739166.9,      15.0,      15.0,       2.0);
379       ( 408100.5, 3739231.5,      15.0,      15.0,       2.0);         ( 408095.2,
          3739266.6,      15.0,      15.0,       2.0);
380       ( 408153.3, 3739163.2,      15.0,      15.0,       2.0);         ( 408102.4,
          3739115.7,      15.0,      15.0,       2.0);
381       ( 408031.1, 3739101.4,      15.0,      15.0,       2.0);         ( 408024.7,
          3738983.5,      15.0,      15.0,       2.0);
382       ( 408020.6, 3738926.4,      15.0,      15.0,       2.0);         ( 408110.6,
          3738949.7,      15.0,      15.0,       2.0);
383       ( 408105.0, 3738895.1,      15.0,      15.0,       2.0);         ( 408020.2,
          3738908.3,      15.0,      15.0,       2.0);
384       ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
```

```
     3738847.7,      15.0,      15.0,       2.0);
385  ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
     3738720.3,      15.0,      15.0,       2.0);
386  ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
     3738592.6,      15.0,      15.0,       2.0);
387  ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
     3738503.3,      15.0,      15.0,       2.0);
388  ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
     3738418.1,      15.0,      15.0,       2.0);
389  ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
     3738381.3,      15.0,      15.0,       2.0);
390  ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
     3738264.6,      15.0,      15.0,       2.0);
391  ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
     3738242.1,      15.0,      15.0,       2.0);
392  ( 408043.7, 3738177.3,      15.0,      15.0,       2.0);         ( 408038.7,
     3738205.1,      15.0,      15.0,       2.0);
393  ( 408105.8, 3738177.3,      15.0,      15.0,       2.0);         ( 408100.9,
     3738142.2,      15.0,      15.0,       2.0);
394  ( 408046.2, 3738135.9,      15.0,      15.0,       2.0);         ( 408045.0,
     3738101.6,      15.0,      15.0,       2.0);
395  ( 408047.1, 3738076.0,      15.0,      15.0,       2.0);         ( 408045.2,
     3738042.3,      15.0,      15.0,       2.0);
396  ( 408102.6, 3738105.0,      15.0,      15.0,       2.0);         ( 408103.0,
     3738048.6,      15.0,      15.0,       2.0);
397  ( 408044.8, 3738009.1,      15.0,      15.0,       2.0);         ( 408044.7,
     3737975.6,      15.0,      15.0,       2.0);
398  ( 408043.7, 3737948.9,      15.0,      15.0,       2.0);         ( 408103.0,
     3737978.7,      15.0,      15.0,       2.0);
399  ( 408103.3, 3737940.5,      15.0,      15.0,       2.0);         ( 408048.4,
     3737902.4,      15.0,      15.0,       2.0);
400  ( 408048.4, 3737871.6,      15.0,      15.0,       2.0);         ( 408047.4,
     3737836.5,      15.0,      15.0,       2.0);
401  ( 408047.4, 3737814.3,      15.0,      15.0,       2.0);         ( 408098.3,
     3737909.0,      15.0,      15.0,       2.0);
402  ( 408099.1, 3737881.1,      15.0,      15.0,       2.0);         ( 408099.1,
     3737861.8,      15.0,      15.0,       2.0);
403  ( 408099.6, 3737832.2,      15.0,      15.0,       2.0);         ( 408097.8,
     3737796.1,      15.0,      15.0,       2.0);
404  ( 408099.1, 3737765.7,      15.0,      15.0,       2.0);         ( 408043.9,
     3737693.9,      15.0,      15.0,       2.0);
405  ( 408098.0, 3737736.4,      15.0,      15.0,       2.0);         ( 408113.3,
     3737692.4,      15.0,      15.0,       2.0);
406  ( 408042.6, 3737678.4,      15.0,      15.0,       2.0);         ( 408043.9,
     3737600.0,      15.0,      15.0,       2.0);
407  ( 408110.4, 3737585.2,      15.0,      15.0,       2.0);         ( 408045.0,
     3737547.5,      15.1,      15.1,       2.0);
408  ( 408102.5, 3737553.3,      15.0,      15.0,       2.0);         ( 408048.7,
     3737498.9,      15.4,      15.4,       2.0);
409  ( 408103.3, 3737456.2,      15.0,      15.0,       2.0);         ( 408133.9,
     3737465.7,      15.0,      15.0,       2.0);
410  ( 408119.1, 3737401.3,      15.0,      15.0,       2.0);         ( 408016.5,
     3737427.7,      16.0,      16.0,       2.0);
411  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
412   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:54:25
413
                                  PAGE  10
414   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
415
416                                          *** METEOROLOGICAL DAYS SELECTED FOR
                                             PROCESSING ***
417                                                        (1=YES; 0=NO)
418
```

```
419             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
420             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
421             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
422             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
423             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
424             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
425             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
426             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
427
428                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                    IS INCLUDED IN THE DATA FILE.
429
430
431
432                                     *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                        CATEGORIES ***
433                                                     (METERS/SEC)
434
435                                                  1.54,   3.09,   5.14,   8.23,  10.80,
436 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        09/12/24
437  *** AERMET - VERSION  16216 ***
     ***                                                                    ***
     13:54:25
438
                                  PAGE  11
439  *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
440
441                                     *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                        ***
442
443      Surface file:
         ..\KFUL_V9_ADJU\KFUL_v9.SFC
         Met Version:  16216
444      Profile file:
         ..\KFUL_V9_ADJU\KFUL_v9.PFL
445      Surface format:
         FREE

446      Profile format:
         FREE

447      Surface station no.:     3166                  Upper air station no.:     3190
448                     Name: UNKNOWN                                  Name:
                        UNKNOWN
449                     Year:   2012                                   Year:   2012
450
451   First 24 hours of scalar data
452   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
453  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - - - - - -
454   12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
      0.96  322.   10.1  283.8    2.0
455   12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
      0.52   13.   10.1  283.1    2.0
456   12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   73.   10.1  282.0    2.0
457   12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
```

```
      0.91   98.   10.1  281.4    2.0
458   12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
      0.00    0.   10.1  280.9    2.0
459   12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
      0.55   80.   10.1  280.4    2.0
460   12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.69  201.   10.1  280.4    2.0
461   12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
      0.52   72.   10.1  280.9    2.0
462   12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
      0.00    0.   10.1  285.9    2.0
463   12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
      0.79  268.   10.1  289.9    2.0
464   12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
      0.70  273.   10.1  294.2    2.0
465   12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
      0.74  230.   10.1  297.5    2.0
466   12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
      1.20  227.   10.1  300.4    2.0
467   12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
      1.47  233.   10.1  300.9    2.0
468   12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
      1.20  233.   10.1  302.0    2.0
469   12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
      1.91  229.   10.1  298.1    2.0
470   12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
      1.37  212.   10.1  294.2    2.0
471   12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
      0.91  190.   10.1  292.0    2.0
472   12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.70  302.   10.1  289.2    2.0
473   12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
      0.87  338.   10.1  288.1    2.0
474   12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
      1.11  304.   10.1  287.0    2.0
475   12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   76.   10.1  285.4    2.0
476   12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
      0.62  306.   10.1  284.9    2.0
477   12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
      0.82  318.   10.1  283.8    2.0
478
479
480   First hour of profile data
481   YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
482   12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
483
484   F indicates top of profile (=1) or below (=0)
485   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
486    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       13:54:25
487
                                  PAGE  12
488    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
489
490                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
491                                   INCLUDING SOURCE(S):     VOL1        , PAREA1      ,
492
493                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
494
495                                         ** CONC OF PM_2.5   IN
                                            MICROGRAMS/M**3                          **
496
```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
407197.41	3740354.49	4.06180c	(13020524)	407183.18	3740347.13	4.82981c	(13020524)
407241.68	3740347.31	5.21265c	(13020524)	407108.00	3740378.65	0.56742c	(12122824)
407224.06	3740354.48	4.21982c	(13020524)	407152.04	3740351.83	1.49682	(15021724)
407136.97	3740351.17	1.18772c	(12122824)	407159.65	3740296.70	3.86230c	(14120524)
407297.73	3740355.14	1.37943	(12050324)	407311.17	3740228.02	1.13635c	(14011524)
407298.05	3740416.88	0.81070	(12042324)	407263.48	3740425.06	0.88055c	(12070424)
407263.74	3740448.28	0.65097	(12052424)	407253.45	3740517.68	0.32619m	(12052524)
407327.60	3740465.69	0.45271	(12042324)	407319.95	3740498.68	0.36979	(12021324)
407304.91	3740552.25	0.26175	(12052424)	407237.88	3740641.18	0.14206	(15042124)
407278.52	3740698.17	0.12176m	(12052524)	407244.48	3740705.83	0.10348m	(12052524)
407239.73	3740783.14	0.07049	(15042124)	407288.55	3740769.42	0.09189m	(12052524)
407312.56	3740721.66	0.10562m	(12052524)	407365.60	3740769.16	0.08016	(14120824)
407462.18	3740703.72	0.10360	(12021324)	407432.10	3740769.95	0.08399	(12021324)
407470.10	3740781.30	0.08105	(12021324)	407542.40	3740786.31	0.06841	(12021324)
407549.79	3740722.71	0.06612	(12021324)	407600.19	3740718.49	0.06247	(15122224)
407625.79	3740721.40	0.06176	(15122224)	407594.92	3740777.07	0.05182	(12021324)
407632.65	3740776.55	0.04716	(15122224)	407648.48	3740721.13	0.05995	(15122224)
407695.98	3740777.60	0.04801	(15122224)	407734.24	3740777.34	0.04402	(15122224)
407687.54	3740721.13	0.05299	(15122224)	407708.65	3740721.92	0.04802	(15122224)
407747.18	3740719.28	0.04865c	(14013124)	407826.87	3740725.09	0.04489c	(14013124)
407833.99	3740775.23	0.03978c	(14013124)	407890.20	3740776.02	0.03806c	(14013124)
408036.65	3740709.78	0.02433c	(14013124)	407940.07	3740773.12	0.03522c	(14013124)
408001.03	3740769.95	0.03059c	(14013124)	408098.93	3740786.05	0.02381c	(14013124)
408037.45	3740766.78	0.02757c	(14013124)	408143.26	3740705.83	0.02165m	(15010524)
408047.47	3740684.98	0.02327m	(15010524)	408047.74	3740646.45	0.02679m	(15010524)
408114.76	3740578.37	0.02558m	(15010524)	408044.04	3740580.22	0.02933m	(15010524)
408003.40	3740456.19	0.02738	(14032624)	408103.42	3740460.94	0.02269	(14032624)
408116.08	3740373.86	0.02829	(14120424)	408040.35	3740381.52	0.03070	(14120424)
408035.60	3740363.04	0.03268	(14120424)	408037.71	3740330.06	0.03688	(15012824)
408108.69	3740314.49	0.03421	(15012824)	408036.13	3740271.21	0.03923	(15012824)
408036.92	3740242.45	0.03722	(15012824)	408101.04	3740277.02	0.03552	(15012824)

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          408103.94   3740244.03        0.03384  (15012824)                408101.57
          3740214.48        0.03383  (15011924)
          408100.51   3740178.06        0.03514  (15011924)                408102.10
          3740150.62        0.03519  (12021724)
          408102.89   3740094.41        0.03594  (12021724)                408036.92
          3740194.42        0.03884  (15011924)
          408038.24   3740166.45        0.03856  (12021724)                408037.45
          3740106.02        0.03967  (12021724)
          408037.45   3740075.68        0.03721  (12021724)                408050.64
          3740016.83        0.04018  (13020424)
          408116.35   3740034.51        0.03353  (13020424)                408099.19
          3739975.93        0.03774  (13020424)
          408050.90   3739972.50        0.04018  (13020424)                408031.64
          3739915.50        0.03710  (16012124)
          408098.67   3739906.53        0.03387  (13020424)                408032.17
          3739895.71        0.03621  (16012124)
          408029.79   3739877.76        0.03538c (13122324)                408032.96
          3739857.97        0.03667c (13122324)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 13:54:25

                                PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     VOL1        , PAREA1      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_2.5   IN
                                             MICROGRAMS/M**3                          **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
      Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          408034.54   3739829.21        0.03847c (13122324)                408118.46
          3739870.11        0.03219  (16012124)
          408107.37   3739824.46        0.03134c (13122324)                408099.19
          3739716.27        0.03603c (13122324)
          408106.85   3739752.95        0.03508c (13122324)                408100.78
          3739693.84        0.03565c (13122324)
          408038.24   3739768.78        0.04003c (13122324)                408032.96
          3739817.34        0.03925c (13122324)
          408036.13   3739727.88        0.03944c (13122324)                408035.86
          3739675.63        0.03791m (13010324)
          408037.97   3739639.48        0.03975b (12020824)                408037.71
          3739589.61        0.04071b (12020824)
          408032.17   3739560.84        0.04038b (12020824)                408102.36
          3739661.12        0.03448c (13122324)
          408104.47   3739623.91        0.03386m (13010324)                408119.51
          3739600.16        0.03344b (12020824)
          408111.33   3739580.37        0.03516b (12020824)                408109.75
          3739556.62        0.03599b (12020824)
          408095.76   3739518.36        0.03681b (12020824)                408049.06
          3739521.26        0.03822b (12020824)
          408030.32   3739469.28        0.03419b (12020824)                408051.43
          3739431.80        0.03156b (12020824)
          408048.79   3739413.07        0.02969b (12020824)                408120.04
          3739487.22        0.03527b (12020824)
          408143.26   3739399.08        0.03137b (12020824)                408113.71
          3739342.88        0.02655b (12020824)
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566          408036.13   3739355.28        0.02331b (12020824)                 408044.31
             3739318.86        0.02225c (13020124)
567          408094.71   3739318.34        0.02353b (12020824)                 408030.58
             3739230.99        0.02208  (12012524)
568          408044.83   3739253.95        0.02200  (12012524)                 408042.46
             3739166.87        0.02098  (16121224)
569          408100.51   3739231.52        0.02008  (12012524)                 408095.24
             3739266.61        0.02061c (13020124)
570          408153.29   3739163.17        0.01842  (12012524)                 408102.36
             3739115.67        0.01927  (12012524)
571          408031.11   3739101.42        0.02119c (12011824)                 408024.67
             3738983.53        0.02120c (12011824)
572          408020.63   3738926.41        0.02048c (12011824)                 408110.61
             3738949.66        0.01885c (12011824)
573          408105.05   3738895.07        0.01900c (12011824)                 408020.24
             3738908.31        0.02017c (12011824)
574          408109.28   3738857.21        0.01872c (12011824)                 408042.54
             3738847.68        0.01909c (12011824)
575          408045.02   3738755.01        0.01720c (12011824)                 408109.28
             3738720.31        0.01712c (12011824)
576          408050.93   3738693.43        0.01660c (14010324)                 408054.37
             3738592.56        0.01543c (14010324)
577          408101.27   3738540.13        0.01481c (14010324)                 408053.60
             3738503.33        0.01407c (14010324)
578          408053.41   3738429.16        0.01366c (14011024)                 408118.24
             3738418.10        0.01341c (14010324)
579          408052.46   3738369.67        0.01349c (14011024)                 408134.26
             3738381.30        0.01305c (14010324)
580          408135.97   3738350.60        0.01267c (14010324)                 408044.45
             3738264.61        0.01296c (14011024)
581          408117.29   3738288.25        0.01233c (14011024)                 408119.00
             3738242.11        0.01221c (14011024)
582          408043.69   3738177.28        0.01227c (16121324)                 408038.73
             3738205.12        0.01250c (14011024)
583          408105.85   3738177.28        0.01209c (14011024)                 408100.89
             3738142.20        0.01193c (14011024)
584          408046.17   3738135.91        0.01225c (16121324)                 408045.02
             3738101.59        0.01225c (16121324)
585          408047.12   3738076.04        0.01220c (16121324)                 408045.21
             3738042.29        0.01218c (16121324)
586          408102.61   3738105.02        0.01171c (14011024)                 408102.99
             3738048.58        0.01133c (14011024)
587          408044.83   3738009.11        0.01211c (16121324)                 408044.72
             3737975.56        0.01203c (16121324)
588          408043.67   3737948.90        0.01195c (16121324)                 408103.05
             3737978.72        0.01122c (16121324)
589          408103.31   3737940.46        0.01121c (16121324)                 408048.42
             3737902.45        0.01174c (16121324)
590          408048.42   3737871.57        0.01162c (16121324)                 408047.36
             3737836.47        0.01147c (16121324)
591          408047.36   3737814.30        0.01136c (16121324)                 408098.30
             3737909.05        0.01126c (16121324)
592          408099.09   3737881.07        0.01120c (16121324)                 408099.09
             3737861.81        0.01117c (16121324)
593  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
594   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      13:54:25
595
                                PAGE  14
596   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
597
598                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
599                                   INCLUDING SOURCE(S):     VOL1        , PAREA1      ,
```

600
601 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
602
603 ** CONC OF PM_2.5 IN
MICROGRAMS/M**3 **
604
605 X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
606 - - -

```
639    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
640
641    *** Message Summary : AERMOD Model Execution ***
642
643     --------- Summary of Total Messages --------
644
645    A Total of            0 Fatal Error Message(s)
646    A Total of            2 Warning Message(s)
647    A Total of         2285 Informational Message(s)
648
649    A Total of        43848 Hours Were Processed
650
651    A Total of         1588 Calm Hours Identified
652
653    A Total of          697 Missing Hours Identified (  1.59 Percent)
654
655
656       ******** FATAL ERROR MESSAGES ********
657                  ***  NONE  ***
658
659
660       ********   WARNING MESSAGES   ********
661    ME W186     101       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
       used           0.50
662    ME W187     101       MEOPEN: ADJ_U* Option for Stable Low Winds used in
       AERMET
663
664       ***********************************
665       *** AERMOD Finishes Successfully ***
666       ***********************************
667
668
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops CO\16113-02 Ops CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 3010232 Orange_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.1073086149     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "16113-02 OPS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "16113-02 OPS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "16113-02 Ops CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops CO\16113-02 Ops CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 3010232 Orange_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.1073086149     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
67   ** AERMOD Output Pathway
68   **************************************
69   **
70   **
71   OU STARTING
72      RECTABLE ALLAVE 1ST
73      RECTABLE 1 1ST
74      RECTABLE 8 1ST
75   ** Auto-Generated Plotfiles
76      PLOTFILE 1 ALL 1ST "16113-02 OPS CO.AD\01H1GALL.PLT" 31
77      PLOTFILE 8 ALL 1ST "16113-02 OPS CO.AD\08H1GALL.PLT" 32
78      SUMMFILE "16113-02 Ops CO.sum"
79   OU FINISHED
80
81
82     *** Message Summary For AERMOD Model Setup ***
83
84     --------- Summary of Total Messages --------
85
86    A Total of            0 Fatal Error Message(s)
87    A Total of            2 Warning Message(s)
88    A Total of            0 Informational Message(s)
89
90
91       ******** FATAL ERROR MESSAGES ********
92                  ***  NONE  ***
93
94
95       ********   WARNING MESSAGES   ********
96    ME W186      64       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
      used           0.50
97    ME W187      64       MEOPEN: ADJ_U* Option for Stable Low Winds used in
      AERMET
98
99    ***********************************
100   *** SETUP Finishes Successfully ***
101   ***********************************
102
103   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
104    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:03:27
105
                                  PAGE   1
106    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
107
108                                              ***     MODEL SETUP OPTIONS SUMMARY       ***
109    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - -
110
111    ** Model Options Selected:
112         * Model Uses Regulatory DEFAULT Options
113         * Model Is Setup For Calculation of Average CONCentration Values.
114         * NO GAS DEPOSITION Data Provided.
115         * NO PARTICLE DEPOSITION Data Provided.
116         * Model Uses NO DRY DEPLETION. DDPLETE  =  F
117         * Model Uses NO WET DEPLETION. WETDPLT  =  F
118         * Stack-tip Downwash.
119         * Model Accounts for ELEVated Terrain Effects.
120         * Use Calms Processing Routine.
121         * Use Missing Data Processing Routine.
122         * No Exponential Decay.
123         * Model Uses URBAN Dispersion Algorithm for the SBL for     1 Source(s),
124           for Total of    1 Urban Area(s):
125      Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
```

```
126         * Urban Roughness Length of 1.0 Meter Used.
127         * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
128         * CCVR_Sub - Meteorological data includes CCVR substitutions
129         * TEMP_Sub - Meteorological data includes TEMP substitutions
130         * Model Accepts FLAGPOLE Receptor . Heights.
131         * The User Specified a Pollutant Type of: CO
132
133    **Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR
134
135    **This Run Includes:      1 Source(s);       1 Source Group(s); and     176 Receptor(s)
136
137                   with:      0 POINT(s), including
138                              0 POINTCAP(s) and      0 POINTHOR(s)
139                    and:      1 VOLUME source(s)
140                    and:      0 AREA type source(s)
141                    and:      0 LINE source(s)
142                    and:      0 RLINE/RLINEXT source(s)
143                    and:      0 OPENPIT source(s)
144                    and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
145                    and:      0 SWPOINT source(s)
146
147
148    **Model Set To Continue RUNning After the Setup Testing.
149
150    **The AERMET Input Meteorological Data Version Date:  16216
151
152    **Output Options Selected:
153             Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
                Keyword)
154             Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
155             Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
156
157    **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
158                                                                    m for Missing Hours
159                                                                    b for Both Calm and
                                                                       Missing Hours
160
161    **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    29.00 ;  Decay Coef.
       =    0.000     ;  Rot. Angle =     0.0
162                     Emission Units = GRAMS/SEC                                ;  Emission
                        Rate Unit Factor =   0.10000E+07
163                     Output Units   = MICROGRAMS/M**3
164
165    **Approximate Storage Requirements of Model =      3.5 MB of RAM.
166
167    **Input Runstream File:
       aermod.inp

168    **Output Print File:
       aermod.out

169
170    **Detailed Error/Message File:   16113-02 Ops
       CO.err
171    **File for Summary of Results:   16113-02 Ops
       CO.sum
172    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
173    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:03:27
174
                                  PAGE   2
175    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
176
177
```

```
                                                     *** 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   0.10731E+00  407216.8 3740298.7    18.4     5.00    21.79
 1.40     YES                    NO
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 14:03:27

                              PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  ALL        VOL1        ,
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 14:03:27

                              PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


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

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


              3010232.   VOL1        ,
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 14:03:27

                              PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


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

     ( 407197.4, 3740354.5,      18.0,      18.0,       2.0);         ( 407183.2,
     3740347.1,      18.2,      18.2,       2.0);
     ( 407241.7, 3740347.3,      18.0,      18.0,       2.0);         ( 407108.0,
     3740378.6,      18.1,      18.1,       2.0);
     ( 407224.1, 3740354.5,      18.0,      18.0,       2.0);         ( 407152.0,
     3740351.8,      18.5,      18.5,       2.0);
```

```
224         ( 407137.0, 3740351.2,      18.7,      18.7,       2.0);         ( 407159.6,
            3740296.7,      18.8,      18.8,       2.0);
225         ( 407297.7, 3740355.1,      18.2,      18.2,       2.0);         ( 407311.2,
            3740228.0,      19.0,      19.0,       2.0);
226         ( 407298.0, 3740416.9,      18.0,      18.0,       2.0);         ( 407263.5,
            3740425.1,      18.0,      18.0,       2.0);
227         ( 407263.7, 3740448.3,      17.8,      17.8,       2.0);         ( 407253.5,
            3740517.7,      17.1,      17.1,       2.0);
228         ( 407327.6, 3740465.7,      17.9,      17.9,       2.0);         ( 407320.0,
            3740498.7,      17.6,      17.6,       2.0);
229         ( 407304.9, 3740552.2,      17.2,      17.2,       2.0);         ( 407237.9,
            3740641.2,      17.0,      17.0,       2.0);
230         ( 407278.5, 3740698.2,      17.0,      17.0,       2.0);         ( 407244.5,
            3740705.8,      17.0,      17.0,       2.0);
231         ( 407239.7, 3740783.1,      17.0,      17.0,       2.0);         ( 407288.5,
            3740769.4,      17.0,      17.0,       2.0);
232         ( 407312.6, 3740721.7,      17.1,      17.1,       2.0);         ( 407365.6,
            3740769.2,      17.7,      17.7,       2.0);
233         ( 407462.2, 3740703.7,      18.3,      18.3,       2.0);         ( 407432.1,
            3740769.9,      18.0,      18.0,       2.0);
234         ( 407470.1, 3740781.3,      18.4,      18.4,       2.0);         ( 407542.4,
            3740786.3,      19.0,      19.0,       2.0);
235         ( 407549.8, 3740722.7,      19.0,      19.0,       2.0);         ( 407600.2,
            3740718.5,      19.1,      19.1,       2.0);
236         ( 407625.8, 3740721.4,      19.4,      19.4,       2.0);         ( 407594.9,
            3740777.1,      19.0,      19.0,       2.0);
237         ( 407632.6, 3740776.5,      19.5,      19.5,       2.0);         ( 407648.5,
            3740721.1,      19.7,      19.7,       2.0);
238         ( 407696.0, 3740777.6,      20.3,      20.3,       2.0);         ( 407734.2,
            3740777.3,      20.7,      20.7,       2.0);
239         ( 407687.5, 3740721.1,      20.0,      20.0,       2.0);         ( 407708.6,
            3740721.9,      20.1,      20.1,       2.0);
240         ( 407747.2, 3740719.3,      20.2,      20.2,       2.0);         ( 407826.9,
            3740725.1,      20.0,      20.0,       2.0);
241         ( 407834.0, 3740775.2,      20.0,      20.0,       2.0);         ( 407890.2,
            3740776.0,      20.0,      20.0,       2.0);
242         ( 408036.6, 3740709.8,      19.2,      19.2,       2.0);         ( 407940.1,
            3740773.1,      20.0,      20.0,       2.0);
243         ( 408001.0, 3740769.9,      19.7,      19.7,       2.0);         ( 408098.9,
            3740786.0,      19.0,      19.0,       2.0);
244         ( 408037.5, 3740766.8,      19.2,      19.2,       2.0);         ( 408143.3,
            3740705.8,      19.0,      19.0,       2.0);
245         ( 408047.5, 3740685.0,      19.1,      19.1,       2.0);         ( 408047.7,
            3740646.4,      19.0,      19.0,       2.0);
246         ( 408114.8, 3740578.4,      19.0,      19.0,       2.0);         ( 408044.0,
            3740580.2,      19.0,      19.0,       2.0);
247         ( 408003.4, 3740456.2,      19.0,      19.0,       2.0);         ( 408103.4,
            3740460.9,      19.0,      19.0,       2.0);
248         ( 408116.1, 3740373.9,      19.0,      19.0,       2.0);         ( 408040.3,
            3740381.5,      19.1,      19.1,       2.0);
249         ( 408035.6, 3740363.0,      19.1,      19.1,       2.0);         ( 408037.7,
            3740330.1,      19.2,      19.2,       2.0);
250         ( 408108.7, 3740314.5,      19.0,      19.0,       2.0);         ( 408036.1,
            3740271.2,      19.2,      19.2,       2.0);
251         ( 408036.9, 3740242.4,      19.2,      19.2,       2.0);         ( 408101.0,
            3740277.0,      19.0,      19.0,       2.0);
252         ( 408103.9, 3740244.0,      19.0,      19.0,       2.0);         ( 408101.6,
            3740214.5,      19.0,      19.0,       2.0);
253         ( 408100.5, 3740178.1,      19.0,      19.0,       2.0);         ( 408102.1,
            3740150.6,      19.0,      19.0,       2.0);
254         ( 408102.9, 3740094.4,      18.6,      18.6,       2.0);         ( 408036.9,
            3740194.4,      19.1,      19.1,       2.0);
255         ( 408038.2, 3740166.4,      19.0,      19.0,       2.0);         ( 408037.5,
            3740106.0,      19.0,      19.0,       2.0);
256         ( 408037.5, 3740075.7,      19.0,      19.0,       2.0);         ( 408050.6,
            3740016.8,      18.6,      18.6,       2.0);
```

```
257        ( 408116.3, 3740034.5,      18.1,      18.1,       2.0);         ( 408099.2,
           3739975.9,      18.1,      18.1,       2.0);
258        ( 408050.9, 3739972.5,      18.1,      18.1,       2.0);         ( 408031.6,
           3739915.5,      17.5,      17.5,       2.0);
259        ( 408098.7, 3739906.5,      17.4,      17.4,       2.0);         ( 408032.2,
           3739895.7,      17.3,      17.3,       2.0);
260        ( 408029.8, 3739877.8,      17.1,      17.1,       2.0);         ( 408033.0,
           3739858.0,      17.0,      17.0,       2.0);
261        ( 408034.5, 3739829.2,      17.0,      17.0,       2.0);         ( 408118.5,
           3739870.1,      17.0,      17.0,       2.0);
262        ( 408107.4, 3739824.5,      17.0,      17.0,       2.0);         ( 408099.2,
           3739716.3,      16.3,      16.3,       2.0);
263        ( 408106.8, 3739752.9,      16.7,      16.7,       2.0);         ( 408100.8,
           3739693.8,      16.1,      16.1,       2.0);
264        ( 408038.2, 3739768.8,      16.9,      16.9,       2.0);         ( 408033.0,
           3739817.3,      17.0,      17.0,       2.0);
265        ( 408036.1, 3739727.9,      16.5,      16.5,       2.0);         ( 408035.9,
           3739675.6,      16.0,      16.0,       2.0);
266    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
267     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        14:03:27
268
                                    PAGE   6
269     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
270
271                                                *** DISCRETE CARTESIAN RECEPTORS ***
272                                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
273                                                          (METERS)
274
275        ( 408038.0, 3739639.5,      16.0,      16.0,       2.0);         ( 408037.7,
           3739589.6,      16.0,      16.0,       2.0);
276        ( 408032.2, 3739560.8,      16.0,      16.0,       2.0);         ( 408102.4,
           3739661.1,      16.0,      16.0,       2.0);
277        ( 408104.5, 3739623.9,      16.0,      16.0,       2.0);         ( 408119.5,
           3739600.2,      16.0,      16.0,       2.0);
278        ( 408111.3, 3739580.4,      16.0,      16.0,       2.0);         ( 408109.8,
           3739556.6,      16.0,      16.0,       2.0);
279        ( 408095.8, 3739518.4,      16.0,      16.0,       2.0);         ( 408049.1,
           3739521.3,      16.0,      16.0,       2.0);
280        ( 408030.3, 3739469.3,      15.7,      15.7,       2.0);         ( 408051.4,
           3739431.8,      15.3,      15.3,       2.0);
281        ( 408048.8, 3739413.1,      15.1,      15.1,       2.0);         ( 408120.0,
           3739487.2,      15.9,      15.9,       2.0);
282        ( 408143.3, 3739399.1,      15.0,      15.0,       2.0);         ( 408113.7,
           3739342.9,      15.0,      15.0,       2.0);
283        ( 408036.1, 3739355.3,      15.0,      15.0,       2.0);         ( 408044.3,
           3739318.9,      15.0,      15.0,       2.0);
284        ( 408094.7, 3739318.3,      15.0,      15.0,       2.0);         ( 408030.6,
           3739231.0,      15.0,      15.0,       2.0);
285        ( 408044.8, 3739253.9,      15.0,      15.0,       2.0);         ( 408042.5,
           3739166.9,      15.0,      15.0,       2.0);
286        ( 408100.5, 3739231.5,      15.0,      15.0,       2.0);         ( 408095.2,
           3739266.6,      15.0,      15.0,       2.0);
287        ( 408153.3, 3739163.2,      15.0,      15.0,       2.0);         ( 408102.4,
           3739115.7,      15.0,      15.0,       2.0);
288        ( 408031.1, 3739101.4,      15.0,      15.0,       2.0);         ( 408024.7,
           3738983.5,      15.0,      15.0,       2.0);
289        ( 408020.6, 3738926.4,      15.0,      15.0,       2.0);         ( 408110.6,
           3738949.7,      15.0,      15.0,       2.0);
290        ( 408105.0, 3738895.1,      15.0,      15.0,       2.0);         ( 408020.2,
           3738908.3,      15.0,      15.0,       2.0);
291        ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
           3738847.7,      15.0,      15.0,       2.0);
292        ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
```

```
          3738720.3,      15.0,      15.0,       2.0);
293       ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
          3738592.6,      15.0,      15.0,       2.0);
294       ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
          3738503.3,      15.0,      15.0,       2.0);
295       ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
          3738418.1,      15.0,      15.0,       2.0);
296       ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
          3738381.3,      15.0,      15.0,       2.0);
297       ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
          3738264.6,      15.0,      15.0,       2.0);
298       ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
          3738242.1,      15.0,      15.0,       2.0);
299       ( 408043.7, 3738177.3,      15.0,      15.0,       2.0);         ( 408038.7,
          3738205.1,      15.0,      15.0,       2.0);
300       ( 408105.8, 3738177.3,      15.0,      15.0,       2.0);         ( 408100.9,
          3738142.2,      15.0,      15.0,       2.0);
301       ( 408046.2, 3738135.9,      15.0,      15.0,       2.0);         ( 408045.0,
          3738101.6,      15.0,      15.0,       2.0);
302       ( 408047.1, 3738076.0,      15.0,      15.0,       2.0);         ( 408045.2,
          3738042.3,      15.0,      15.0,       2.0);
303       ( 408102.6, 3738105.0,      15.0,      15.0,       2.0);         ( 408103.0,
          3738048.6,      15.0,      15.0,       2.0);
304       ( 408044.8, 3738009.1,      15.0,      15.0,       2.0);         ( 408044.7,
          3737975.6,      15.0,      15.0,       2.0);
305       ( 408043.7, 3737948.9,      15.0,      15.0,       2.0);         ( 408103.0,
          3737978.7,      15.0,      15.0,       2.0);
306       ( 408103.3, 3737940.5,      15.0,      15.0,       2.0);         ( 408048.4,
          3737902.4,      15.0,      15.0,       2.0);
307       ( 408048.4, 3737871.6,      15.0,      15.0,       2.0);         ( 408047.4,
          3737836.5,      15.0,      15.0,       2.0);
308       ( 408047.4, 3737814.3,      15.0,      15.0,       2.0);         ( 408098.3,
          3737909.0,      15.0,      15.0,       2.0);
309       ( 408099.1, 3737881.1,      15.0,      15.0,       2.0);         ( 408099.1,
          3737861.8,      15.0,      15.0,       2.0);
310       ( 408099.6, 3737832.2,      15.0,      15.0,       2.0);         ( 408097.8,
          3737796.1,      15.0,      15.0,       2.0);
311       ( 408099.1, 3737765.7,      15.0,      15.0,       2.0);         ( 408043.9,
          3737693.9,      15.0,      15.0,       2.0);
312       ( 408098.0, 3737736.4,      15.0,      15.0,       2.0);         ( 408113.3,
          3737692.4,      15.0,      15.0,       2.0);
313       ( 408042.6, 3737678.4,      15.0,      15.0,       2.0);         ( 408043.9,
          3737600.0,      15.0,      15.0,       2.0);
314       ( 408110.4, 3737585.2,      15.0,      15.0,       2.0);         ( 408045.0,
          3737547.5,      15.1,      15.1,       2.0);
315       ( 408102.5, 3737553.3,      15.0,      15.0,       2.0);         ( 408048.7,
          3737498.9,      15.4,      15.4,       2.0);
316       ( 408103.3, 3737456.2,      15.0,      15.0,       2.0);         ( 408133.9,
          3737465.7,      15.0,      15.0,       2.0);
317       ( 408119.1, 3737401.3,      15.0,      15.0,       2.0);         ( 408016.5,
          3737427.7,      16.0,      16.0,       2.0);
318    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
319     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        14:03:27
320
                                    PAGE   7
321     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
322
323                                          *** METEOROLOGICAL DAYS SELECTED FOR
                                             PROCESSING ***
324                                                        (1=YES; 0=NO)
325
326               1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                  1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
```

```
327             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
328             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
329             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
330             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
331             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
332             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
333             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
334
335                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                    IS INCLUDED IN THE DATA FILE.
336
337
338
339                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                    CATEGORIES ***
340                                                 (METERS/SEC)
341
342                                                1.54,   3.09,   5.14,   8.23,  10.80,
343 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        09/12/24
344  *** AERMET - VERSION  16216 ***
     ***                                                                    ***
     14:03:27
345
                                  PAGE   8
346  *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
347
348                                 *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                    ***
349
350      Surface file:
         ..\KFUL_V9_ADJU\KFUL_v9.SFC
         Met Version:  16216
351      Profile file:
         ..\KFUL_V9_ADJU\KFUL_v9.PFL
352      Surface format:
         FREE

353      Profile format:
         FREE

354      Surface station no.:     3166                 Upper air station no.:     3190
355                    Name: UNKNOWN                                 Name:
                       UNKNOWN
356                    Year:   2012                                  Year:   2012
357
358   First 24 hours of scalar data
359   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
360 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - -
361   12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
      0.96  322.   10.1  283.8    2.0
362   12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
      0.52   13.   10.1  283.1    2.0
363   12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   73.   10.1  282.0    2.0
364   12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
      0.91   98.   10.1  281.4    2.0
365   12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
```

```
      0.00    0.   10.1  280.9    2.0
366   12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
      0.55   80.   10.1  280.4    2.0
367   12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.69  201.   10.1  280.4    2.0
368   12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
      0.52   72.   10.1  280.9    2.0
369   12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
      0.00    0.   10.1  285.9    2.0
370   12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
      0.79  268.   10.1  289.9    2.0
371   12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
      0.70  273.   10.1  294.2    2.0
372   12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
      0.74  230.   10.1  297.5    2.0
373   12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
      1.20  227.   10.1  300.4    2.0
374   12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
      1.47  233.   10.1  300.9    2.0
375   12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
      1.20  233.   10.1  302.0    2.0
376   12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
      1.91  229.   10.1  298.1    2.0
377   12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
      1.37  212.   10.1  294.2    2.0
378   12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
      0.91  190.   10.1  292.0    2.0
379   12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.70  302.   10.1  289.2    2.0
380   12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
      0.87  338.   10.1  288.1    2.0
381   12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
      1.11  304.   10.1  287.0    2.0
382   12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   76.   10.1  285.4    2.0
383   12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
      0.62  306.   10.1  284.9    2.0
384   12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
      0.82  318.   10.1  283.8    2.0
385
386
387   First hour of profile data
388   YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
389   12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
390
391   F indicates top of profile (=1) or below (=0)
392   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
393    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:03:27
394
                                  PAGE   9
395    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
396
397                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
398                                   INCLUDING SOURCE(S):     VOL1        ,
399
400                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
401
402                                         ** CONC OF CO       IN
                                            MICROGRAMS/M**3                          **
403
404          X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
             Y-COORD (M)        CONC     (YYMMDDHH)
```

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405   - - -
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          408100.51   3740178.06        0.99678  (13090518)                 408102.10
          3740150.62        0.99093  (13090518)
          408102.89   3740094.41        0.90290  (13090518)                 408036.92
          3740194.42        1.13284  (13090518)
          408038.24   3740166.45        1.13325  (13090518)                 408037.45
          3740106.02        1.03095  (13090518)
          408037.45   3740075.68        0.93281  (13090518)                 408050.64
          3740016.83        0.78130  (16050618)
          408116.35   3740034.51        0.72273  (13090518)                 408099.19
          3739975.93        0.68690  (16050618)
          408050.90   3739972.50        0.73985  (16050618)                 408031.64
          3739915.50        0.76992  (15122816)
          408098.67   3739906.53        0.64393  (15122816)                 408032.17
          3739895.71        0.78005  (15122816)
          408029.79   3739877.76        0.78527  (15122816)                 408032.96
          3739857.97        0.77459  (15122816)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 14:03:27

                                PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

                                                *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
          408034.54   3739829.21        0.75162  (15122816)                 408118.46
          3739870.11        0.64083  (15122816)
          408107.37   3739824.46        0.66752  (15122816)                 408099.19
          3739716.27        0.55779  (15122816)
          408106.85   3739752.95        0.61111  (15122816)                 408100.78
          3739693.84        0.51860  (15122816)
          408038.24   3739768.78        0.65870  (15122816)                 408032.96
          3739817.34        0.73957  (15122816)
          408036.13   3739727.88        0.57437  (15122816)                 408035.86
          3739675.63        0.48549  (14030117)
          408037.97   3739639.48        0.45959  (14030117)                 408037.71
          3739589.61        0.41351  (14030117)
          408032.17   3739560.84        0.38203  (14030117)                 408102.36
          3739661.12        0.45843  (15122816)
          408104.47   3739623.91        0.41981  (14030117)                 408119.51
          3739600.16        0.40142  (14030117)
          408111.33   3739580.37        0.39298  (14030117)                 408109.75
          3739556.62        0.37674  (14030117)
          408095.76   3739518.36        0.34516  (14030117)                 408049.06
          3739521.26        0.34095  (14030117)
          408030.32   3739469.28        0.35757  (16020617)                 408051.43
          3739431.80        0.34131  (16020617)
          408048.79   3739413.07        0.34412  (16020617)                 408120.04
          3739487.22        0.31951  (14030117)
          408143.26   3739399.08        0.26804  (16020617)                 408113.71
          3739342.88        0.29658  (16020617)
          408036.13   3739355.28        0.34585  (16020617)                 408044.31
          3739318.86        0.33244  (16020617)
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474          408094.71   3739318.34        0.30690  (16020617)                408030.58
             3739230.99         0.30226  (16020617)
475          408044.83   3739253.95        0.30988  (16020617)                408042.46
             3739166.87         0.27104  (16020617)
476          408100.51   3739231.52        0.28743  (16020617)                408095.24
             3739266.61         0.29790  (16020617)
477          408153.29   3739163.17        0.25559  (16020617)                408102.36
             3739115.67         0.24814  (16020617)
478          408031.11   3739101.42        0.23692  (16020617)                408024.67
             3738983.53         0.18702  (16021719)
479          408020.63   3738926.41        0.18276  (12050307)                408110.61
             3738949.66         0.18200  (16020617)
480          408105.05   3738895.07        0.16642  (16021719)                408020.24
             3738908.31         0.18426  (12050307)
481          408109.28   3738857.21        0.16248  (16021719)                408042.54
             3738847.68         0.18004  (12050307)
482          408045.02   3738755.01        0.18342  (12050307)                408109.28
             3738720.31         0.16634  (12050307)
483          408050.93   3738693.43        0.18604  (13041207)                408054.37
             3738592.56         0.19933  (13041207)
484          408101.27   3738540.13        0.17376  (13041207)                408053.60
             3738503.33         0.20893  (13041207)
485          408053.41   3738429.16        0.21301  (13041207)                408118.24
             3738418.10         0.17778  (13041207)
486          408052.46   3738369.67        0.21448  (13041207)                408134.26
             3738381.30         0.17233  (13041207)
487          408135.97   3738350.60        0.17414  (13041207)                408044.45
             3738264.61         0.21456  (13041207)
488          408117.29   3738288.25        0.18706  (13041207)                408119.00
             3738242.11         0.18770  (13041207)
489          408043.69   3738177.28        0.20863  (13041207)                408038.73
             3738205.12         0.21194  (13041207)
490          408105.85   3738177.28        0.19259  (13041207)                408100.89
             3738142.20         0.19317  (13041207)
491          408046.17   3738135.91        0.20454  (13041207)                408045.02
             3738101.59         0.20134  (13041207)
492          408047.12   3738076.04        0.19847  (13041207)                408045.21
             3738042.29         0.19491  (13041207)
493          408102.61   3738105.02        0.19128  (13041207)                408102.99
             3738048.58         0.18828  (13041207)
494          408044.83   3738009.11        0.19107  (13041207)                408044.72
             3737975.56         0.18700  (13041207)
495          408043.67   3737948.90        0.18364  (13041207)                408103.05
             3737978.72         0.18356  (13041207)
496          408103.31   3737940.46        0.18050  (13041207)                408048.42
             3737902.45         0.17786  (13041207)
497          408048.42   3737871.57        0.17387  (13041207)                408047.36
             3737836.47         0.16918  (13041207)
498          408047.36   3737814.30        0.16623  (13041207)                408098.30
             3737909.05         0.17814  (13041207)
499          408099.09   3737881.07        0.17548  (13041207)                408099.09
             3737861.81         0.17362  (13041207)
500  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
501   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:03:27
502
                                PAGE  11
503   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
504
505                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
506                                   INCLUDING SOURCE(S):     VOL1        ,
507
508                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
```

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

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
     Y-COORD (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
       408099.62   3737832.25        0.17067  (13041207)               408097.77
       3737796.09        0.16692  (13041207)
       408099.09   3737765.74        0.16371  (13041207)               408043.93
       3737693.95        0.14962  (13041207)
       408098.03   3737736.44        0.16048  (13041207)               408113.34
       3737692.37        0.15653  (13041207)
       408042.61   3737678.38        0.14732  (13041207)               408043.93
       3737600.00        0.13713  (13041207)
       408110.44   3737585.22        0.14474  (13041207)               408044.98
       3737547.48        0.13052  (13041207)
       408102.52   3737553.28        0.14028  (13041207)               408048.68
       3737498.91        0.12512  (13041207)
       408103.31   3737456.16        0.12947  (13041207)               408133.93
       3737465.66        0.13455  (13041207)
       408119.15   3737401.26        0.12584  (13041207)               408016.48
       3737427.66        0.10960  (13041207)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 14:03:27

                            PAGE  12
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

                                        *** 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)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
       407197.41   3740354.49       37.59091c (14012008)               407183.18
       3740347.13       37.69664c (14012008)
       407241.68   3740347.31       48.65444c (12020624)               407108.00
       3740378.65        9.22817c (14012008)
       407224.06   3740354.48       42.36538c (12020624)               407152.04
       3740351.83       20.75607c (14012008)
       407136.97   3740351.17       16.59796c (14012008)               407159.65
       3740296.70       39.67296c (14012008)
       407297.73   3740355.14       19.38827c (12020624)               407311.17
       3740228.02       11.61550c (14012008)
       407298.05   3740416.88       10.33255c (12020624)               407263.48
       3740425.06        9.94720c (12020624)
       407263.74   3740448.28        7.31273c (12020624)               407253.45
       3740517.68        4.06853  (16090508)
       407327.60   3740465.69        5.77928c (12020624)               407319.95
       3740498.68        4.36537c (12020624)
       407304.91   3740552.25        2.88646c (14012008)               407237.88
       3740641.18        1.93325  (13101524)
       407278.52   3740698.17        1.44904c (14012008)               407244.48
       3740705.83        1.44068  (13101524)
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546          407239.73   3740783.14        1.08450  (13101524)                407288.55
             3740769.42         1.10047c (14012008)
547          407312.56   3740721.66        1.28752c (14012008)                407365.60
             3740769.16         1.03654c (14012008)
548          407462.18   3740703.72        1.26331b (14090824)                407432.10
             3740769.95         0.95504c (14012008)
549          407470.10   3740781.30        0.91472b (14090824)                407542.40
             3740786.31         0.89776b (14090824)
550          407549.79   3740722.71        1.10416c (12020624)                407600.19
             3740718.49         1.04738c (12020624)
551          407625.79   3740721.40        0.99497c (12020624)                407594.92
             3740777.07         0.89339c (12020624)
552          407632.65   3740776.55        0.86203c (12020624)                407648.48
             3740721.13         0.95201c (12020624)
553          407695.98   3740777.60        0.78257c (12020624)                407734.24
             3740777.34         0.72716c (12020624)
554          407687.54   3740721.13        0.87126c (12020624)                407708.65
             3740721.92         0.82573c (12020624)
555          407747.18   3740719.28        0.74705c (12020624)                407826.87
             3740725.09         0.59665c (12020624)
556          407833.99   3740775.23        0.57662c (12020624)                407890.20
             3740776.02         0.50036c (12020624)
557          408036.65   3740709.78        0.36685c (14012008)                407940.07
             3740773.12         0.44150c (12020624)
558          408001.03   3740769.95        0.38084c (12020624)                408098.93
             3740786.05         0.31333c (14012008)
559          408037.45   3740766.78        0.35041  (12101724)                408143.26
             3740705.83         0.31118c (14012008)
560          408047.47   3740684.98        0.36755c (14012008)                408047.74
             3740646.45         0.38315  (12101624)
561          408114.76   3740578.37        0.37569  (12101624)                408044.04
             3740580.22         0.42204  (12101624)
562          408003.40   3740456.19        0.47978  (12101624)                408103.42
             3740460.94         0.38876  (12101624)
563          408116.08   3740373.86        0.37694c (14012008)                408040.35
             3740381.52         0.43559c (14012008)
564          408035.60   3740363.04        0.44127c (14012008)                408037.71
             3740330.06         0.44110c (14012008)
565          408108.69   3740314.49        0.38431c (14012008)                408036.13
             3740271.21         0.44265c (14012008)
566          408036.92   3740242.45        0.44062c (14012008)                408101.04
             3740277.02         0.38980c (14012008)
567          408103.94   3740244.03        0.38664c (14012008)                408101.57
             3740214.48         0.38668c (14012008)
568          408100.51   3740178.06        0.38440c (14012008)                408102.10
             3740150.62         0.38034c (14012008)
569          408102.89   3740094.41        0.37323c (13111024)                408036.92
             3740194.42         0.43646c (14012008)
570          408038.24   3740166.45        0.43183c (14012008)                408037.45
             3740106.02         0.42248c (14012008)
571          408037.45   3740075.68        0.41644c (13111024)                408050.64
             3740016.83         0.39434  (12101424)
572          408116.35   3740034.51        0.35558c (13111024)                408099.19
             3739975.93         0.35582  (12101424)
573          408050.90   3739972.50        0.38794  (12101424)                408031.64
             3739915.50         0.38301  (12101424)
574          408098.67   3739906.53        0.34174  (12101424)                408032.17
             3739895.71         0.37433  (12101424)
575          408029.79   3739877.76        0.36802c (14012008)                408032.96
             3739857.97         0.36005c (14012008)
576  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
577   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:03:27
578
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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 ,

*** 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)
408034.54	3739829.21	0.35028c	(14012008)	408118.46	3739870.11	0.32090	(12101424)
408107.37	3739824.46	0.31278c	(14012008)	408099.19	3739716.27	0.28924c	(14012008)
408106.85	3739752.95	0.29540c	(14012008)	408100.78	3739693.84	0.28301c	(14012008)
408038.24	3739768.78	0.32978c	(14012008)	408032.96	3739817.34	0.34744c	(14012008)
408036.13	3739727.88	0.31825c	(14012008)	408035.86	3739675.63	0.30259c	(14012008)
408037.97	3739639.48	0.29118c	(14012008)	408037.71	3739589.61	0.27708c	(14012008)
408032.17	3739560.84	0.27083c	(14012008)	408102.36	3739661.12	0.27435c	(14012008)
408104.47	3739623.91	0.26461c	(14012008)	408119.51	3739600.16	0.25446c	(14012008)
408111.33	3739580.37	0.25231c	(14012008)	408109.75	3739556.62	0.24731c	(14012008)
408095.76	3739518.36	0.24230c	(14012008)	408049.06	3739521.26	0.25541c	(14012008)
408030.32	3739469.28	0.24704c	(14012008)	408051.43	3739431.80	0.23292c	(14012008)
408048.79	3739413.07	0.22916c	(14012008)	408120.04	3739487.22	0.22947c	(14012008)
408143.26	3739399.08	0.20699c	(14012008)	408113.71	3739342.88	0.20191c	(14012008)
408036.13	3739355.28	0.21871c	(14012008)	408044.31	3739318.86	0.20939c	(14012008)
408094.71	3739318.34	0.20057c	(14012008)	408030.58	3739230.99	0.19400c	(14012008)
408044.83	3739253.95	0.19628c	(14012008)	408042.46	3739166.87	0.18065c	(14012008)
408100.51	3739231.52	0.18402c	(14012008)	408095.24	3739266.61	0.19094c	(14012008)
408153.29	3739163.17	0.16635c	(14012008)	408102.36	3739115.67	0.16525c	(14012008)
408031.11	3739101.42	0.17097c	(14012008)	408024.67	3738983.53	0.15367c	(14012008)
408020.63	3738926.41	0.14618c	(14012008)	408110.61	3738949.66	0.14199c	(14012008)
408105.05	3738895.07	0.13594c	(14012008)	408020.24	3738908.31	0.14384c	(14012008)
408109.28	3738857.21	0.13138c	(14012008)	408042.54	3738847.68	0.13480c	(14012008)
408045.02	3738755.01	0.12440c	(14012008)	408109.28	3738720.31	0.11746c	(14012008)
408050.93	3738693.43	0.11791c	(14012008)	408054.37	3738592.56	0.10860c	(14012008)
408101.27	3738540.13	0.10245c	(14012008)	408053.60	3738503.33	0.10140c	(14012008)

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615          408053.41   3738429.16        0.09592c (14012008)                408118.24
             3738418.10        0.09309c (14012008)
616          408052.46   3738369.67        0.09187c (14012008)                408134.26
             3738381.30        0.09020c (14012008)
617          408135.97   3738350.60        0.08824c (14012008)                408044.45
             3738264.61        0.08547c (14012008)
618          408117.29   3738288.25        0.08503c (14012008)                408119.00
             3738242.11        0.08236c (14012008)
619          408043.69   3738177.28        0.08051c (14012008)                408038.73
             3738205.12        0.08216c (14012008)
620          408105.85   3738177.28        0.07917c (14012008)                408100.89
             3738142.20        0.07747c (14012008)
621          408046.17   3738135.91        0.07826c (14012008)                408045.02
             3738101.59        0.07652c (14012008)
622          408047.12   3738076.04        0.07521c (14012008)                408045.21
             3738042.29        0.07362c (14012008)
623          408102.61   3738105.02        0.07557c (14012008)                408102.99
             3738048.58        0.07288c (14012008)
624          408044.83   3738009.11        0.07207c (14012008)                408044.72
             3737975.56        0.07056c (14012008)
625          408043.67   3737948.90        0.06940c (14012008)                408103.05
             3737978.72        0.06975c (14012008)
626          408103.31   3737940.46        0.06812c (14012008)                408048.42
             3737902.45        0.06737c (14012008)
627          408048.42   3737871.57        0.06611c (14012008)                408047.36
             3737836.47        0.06475c (14012008)
628          408047.36   3737814.30        0.06390c (14012008)                408098.30
             3737909.05        0.06691c (14012008)
629          408099.09   3737881.07        0.06578c (14012008)                408099.09
             3737861.81        0.06503c (14012008)
630  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
631   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:03:27
632
                                PAGE  14
633   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
634
635                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
636                                   INCLUDING SOURCE(S):     VOL1        ,
637
638                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
639
640                                        ** CONC OF CO       IN
                                           MICROGRAMS/M**3                          **
641
642        X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
           Y-COORD (M)        CONC     (YYMMDDHH)
643   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
644          408099.62   3737832.25        0.06389c (14012008)                408097.77
             3737796.09        0.06257c (14012008)
645          408099.09   3737765.74        0.06147c (14012008)                408043.93
             3737693.95        0.05962c (14012008)
646          408098.03   3737736.44        0.06046c (14012008)                408113.34
             3737692.37        0.05880c (14012008)
647          408042.61   3737678.38        0.05911c (14012008)                408043.93
             3737600.00        0.05656c (14012008)
648          408110.44   3737585.22        0.05544c (14012008)                408044.98
             3737547.48        0.05493c (14012008)
649          408102.52   3737553.28        0.05456c (14012008)                408048.68
             3737498.91        0.05346c (14012008)
650          408103.31   3737456.16        0.05179c (14012008)                408133.93
             3737465.66        0.05179c (14012008)
```

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	98.14494	ON 14120316: AT (407241.68, 3740347.31, 18.00, 18.00, 2.00)	DC

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

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	48.65444c	ON 12020624: AT (407241.68, 3740347.31, 18.00, 18.00, 2.00)	DC

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

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

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

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

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   2285 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1588 Calm Hours Identified

 A Total of   697 Missing Hours Identified (1.59 Percent)

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

    ********   WARNING MESSAGES   ********
 ME W186   64   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
 ME W187   64   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops NOx\16113-02 Ops NOx.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 3010232 Orange_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops NOx.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.0110777337     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops NOx.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "16113-02 OPS NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "16113-02 Ops NOx.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops NOx\16113-02 Ops NOx.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 3010232 Orange_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops NOx.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.0110777337     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops NOx.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "16113-02 OPS NOX.AD\01H1GALL.PLT" 31
   SUMMFILE "16113-02 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      64       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
 used           0.50
 ME W187      64       MEOPEN: ADJ_U* Option for Stable Low Winds used in
 AERMET

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

FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 14:06:07

                              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     1 Source(s),
        for Total of    1 Urban Area(s):
    Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
```

```
126         * CCVR_Sub - Meteorological data includes CCVR substitutions
127         * TEMP_Sub - Meteorological data includes TEMP substitutions
128         * Model Accepts FLAGPOLE Receptor . Heights.
129         * The User Specified a Pollutant Type of: NOX
130
131    **Model Calculates  1 Short Term Average(s) of:   1-HR
132
133    **This Run Includes:      1 Source(s);       1 Source Group(s); and     176 Receptor(s)
134
135                   with:      0 POINT(s), including
136                              0 POINTCAP(s) and      0 POINTHOR(s)
137                    and:      1 VOLUME source(s)
138                    and:      0 AREA type source(s)
139                    and:      0 LINE source(s)
140                    and:      0 RLINE/RLINEXT source(s)
141                    and:      0 OPENPIT source(s)
142                    and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
143                    and:      0 SWPOINT source(s)
144
145
146    **Model Set To Continue RUNning After the Setup Testing.
147
148    **The AERMET Input Meteorological Data Version Date:  16216
149
150    **Output Options Selected:
151             Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
                Keyword)
152             Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
153             Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
154
155    **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
156                                                                    m for Missing Hours
157                                                                    b for Both Calm and
                                                                       Missing Hours
158
159    **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    29.00 ;  Decay Coef.
       =    0.000     ;  Rot. Angle =     0.0
160                      Emission Units = GRAMS/SEC                                ;  Emission
                         Rate Unit Factor =   0.10000E+07
161                      Output Units   = MICROGRAMS/M**3
162
163    **Approximate Storage Requirements of Model =      3.5 MB of RAM.
164
165    **Input Runstream File:
       aermod.inp

166    **Output Print File:
       aermod.out

167
168    **Detailed Error/Message File:   16113-02 Ops
       NOx.err
169    **File for Summary of Results:   16113-02 Ops
       NOx.sum
170    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
171    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:06:07
172
                                    PAGE   2
173    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
174
175
176                                                  *** VOLUME SOURCE DATA ***
177
```

```
178                NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
                   INIT.   URBAN  EMISSION RATE   AIRCRAFT
179      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
         SZ     SOURCE  SCALAR VARY
180        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
           (METERS)              BY
181    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - -
182
183     VOL1             0   0.11078E-01  407216.8 3740298.7    18.4     5.00    21.79
        1.40     YES                    NO
184    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
185     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        14:06:07
186
                                    PAGE   3
187     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
188
189
190                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***
191
192     SRCGROUP ID                                                SOURCE IDs
193     -----------                                                ----------
194
195
196      ALL        VOL1        ,
197    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
198     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        14:06:07
199
                                    PAGE   4
200     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
201
202
203                                         *** SOURCE IDs DEFINED AS URBAN SOURCES ***
204
205      URBAN ID   URBAN POP                                      SOURCE IDs
206      --------   ---------                                      ----------
207
208
209                 3010232.   VOL1        ,
210    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
211     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        14:06:07
212
                                    PAGE   5
213     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
214
215                                           *** DISCRETE CARTESIAN RECEPTORS ***
216                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
217                                                      (METERS)
218
219         ( 407197.4, 3740354.5,      18.0,      18.0,       2.0);         ( 407183.2,
            3740347.1,      18.2,      18.2,       2.0);
220         ( 407241.7, 3740347.3,      18.0,      18.0,       2.0);         ( 407108.0,
            3740378.6,      18.1,      18.1,       2.0);
221         ( 407224.1, 3740354.5,      18.0,      18.0,       2.0);         ( 407152.0,
            3740351.8,      18.5,      18.5,       2.0);
222         ( 407137.0, 3740351.2,      18.7,      18.7,       2.0);         ( 407159.6,
            3740296.7,      18.8,      18.8,       2.0);
```

```
223         ( 407297.7, 3740355.1,      18.2,      18.2,       2.0);         ( 407311.2,
            3740228.0,      19.0,      19.0,       2.0);
224         ( 407298.0, 3740416.9,      18.0,      18.0,       2.0);         ( 407263.5,
            3740425.1,      18.0,      18.0,       2.0);
225         ( 407263.7, 3740448.3,      17.8,      17.8,       2.0);         ( 407253.5,
            3740517.7,      17.1,      17.1,       2.0);
226         ( 407327.6, 3740465.7,      17.9,      17.9,       2.0);         ( 407320.0,
            3740498.7,      17.6,      17.6,       2.0);
227         ( 407304.9, 3740552.2,      17.2,      17.2,       2.0);         ( 407237.9,
            3740641.2,      17.0,      17.0,       2.0);
228         ( 407278.5, 3740698.2,      17.0,      17.0,       2.0);         ( 407244.5,
            3740705.8,      17.0,      17.0,       2.0);
229         ( 407239.7, 3740783.1,      17.0,      17.0,       2.0);         ( 407288.5,
            3740769.4,      17.0,      17.0,       2.0);
230         ( 407312.6, 3740721.7,      17.1,      17.1,       2.0);         ( 407365.6,
            3740769.2,      17.7,      17.7,       2.0);
231         ( 407462.2, 3740703.7,      18.3,      18.3,       2.0);         ( 407432.1,
            3740769.9,      18.0,      18.0,       2.0);
232         ( 407470.1, 3740781.3,      18.4,      18.4,       2.0);         ( 407542.4,
            3740786.3,      19.0,      19.0,       2.0);
233         ( 407549.8, 3740722.7,      19.0,      19.0,       2.0);         ( 407600.2,
            3740718.5,      19.1,      19.1,       2.0);
234         ( 407625.8, 3740721.4,      19.4,      19.4,       2.0);         ( 407594.9,
            3740777.1,      19.0,      19.0,       2.0);
235         ( 407632.6, 3740776.5,      19.5,      19.5,       2.0);         ( 407648.5,
            3740721.1,      19.7,      19.7,       2.0);
236         ( 407696.0, 3740777.6,      20.3,      20.3,       2.0);         ( 407734.2,
            3740777.3,      20.7,      20.7,       2.0);
237         ( 407687.5, 3740721.1,      20.0,      20.0,       2.0);         ( 407708.6,
            3740721.9,      20.1,      20.1,       2.0);
238         ( 407747.2, 3740719.3,      20.2,      20.2,       2.0);         ( 407826.9,
            3740725.1,      20.0,      20.0,       2.0);
239         ( 407834.0, 3740775.2,      20.0,      20.0,       2.0);         ( 407890.2,
            3740776.0,      20.0,      20.0,       2.0);
240         ( 408036.6, 3740709.8,      19.2,      19.2,       2.0);         ( 407940.1,
            3740773.1,      20.0,      20.0,       2.0);
241         ( 408001.0, 3740769.9,      19.7,      19.7,       2.0);         ( 408098.9,
            3740786.0,      19.0,      19.0,       2.0);
242         ( 408037.5, 3740766.8,      19.2,      19.2,       2.0);         ( 408143.3,
            3740705.8,      19.0,      19.0,       2.0);
243         ( 408047.5, 3740685.0,      19.1,      19.1,       2.0);         ( 408047.7,
            3740646.4,      19.0,      19.0,       2.0);
244         ( 408114.8, 3740578.4,      19.0,      19.0,       2.0);         ( 408044.0,
            3740580.2,      19.0,      19.0,       2.0);
245         ( 408003.4, 3740456.2,      19.0,      19.0,       2.0);         ( 408103.4,
            3740460.9,      19.0,      19.0,       2.0);
246         ( 408116.1, 3740373.9,      19.0,      19.0,       2.0);         ( 408040.3,
            3740381.5,      19.1,      19.1,       2.0);
247         ( 408035.6, 3740363.0,      19.1,      19.1,       2.0);         ( 408037.7,
            3740330.1,      19.2,      19.2,       2.0);
248         ( 408108.7, 3740314.5,      19.0,      19.0,       2.0);         ( 408036.1,
            3740271.2,      19.2,      19.2,       2.0);
249         ( 408036.9, 3740242.4,      19.2,      19.2,       2.0);         ( 408101.0,
            3740277.0,      19.0,      19.0,       2.0);
250         ( 408103.9, 3740244.0,      19.0,      19.0,       2.0);         ( 408101.6,
            3740214.5,      19.0,      19.0,       2.0);
251         ( 408100.5, 3740178.1,      19.0,      19.0,       2.0);         ( 408102.1,
            3740150.6,      19.0,      19.0,       2.0);
252         ( 408102.9, 3740094.4,      18.6,      18.6,       2.0);         ( 408036.9,
            3740194.4,      19.1,      19.1,       2.0);
253         ( 408038.2, 3740166.4,      19.0,      19.0,       2.0);         ( 408037.5,
            3740106.0,      19.0,      19.0,       2.0);
254         ( 408037.5, 3740075.7,      19.0,      19.0,       2.0);         ( 408050.6,
            3740016.8,      18.6,      18.6,       2.0);
255         ( 408116.3, 3740034.5,      18.1,      18.1,       2.0);         ( 408099.2,
            3739975.9,      18.1,      18.1,       2.0);
```

```
256       ( 408050.9, 3739972.5,      18.1,      18.1,       2.0);         ( 408031.6,
          3739915.5,      17.5,      17.5,       2.0);
257       ( 408098.7, 3739906.5,      17.4,      17.4,       2.0);         ( 408032.2,
          3739895.7,      17.3,      17.3,       2.0);
258       ( 408029.8, 3739877.8,      17.1,      17.1,       2.0);         ( 408033.0,
          3739858.0,      17.0,      17.0,       2.0);
259       ( 408034.5, 3739829.2,      17.0,      17.0,       2.0);         ( 408118.5,
          3739870.1,      17.0,      17.0,       2.0);
260       ( 408107.4, 3739824.5,      17.0,      17.0,       2.0);         ( 408099.2,
          3739716.3,      16.3,      16.3,       2.0);
261       ( 408106.8, 3739752.9,      16.7,      16.7,       2.0);         ( 408100.8,
          3739693.8,      16.1,      16.1,       2.0);
262       ( 408038.2, 3739768.8,      16.9,      16.9,       2.0);         ( 408033.0,
          3739817.3,      17.0,      17.0,       2.0);
263       ( 408036.1, 3739727.9,      16.5,      16.5,       2.0);         ( 408035.9,
          3739675.6,      16.0,      16.0,       2.0);
264   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
265    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:06:07
266
                                  PAGE   6
267    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
268
269                                          *** DISCRETE CARTESIAN RECEPTORS ***
270                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
271                                                  (METERS)
272
273       ( 408038.0, 3739639.5,      16.0,      16.0,       2.0);         ( 408037.7,
          3739589.6,      16.0,      16.0,       2.0);
274       ( 408032.2, 3739560.8,      16.0,      16.0,       2.0);         ( 408102.4,
          3739661.1,      16.0,      16.0,       2.0);
275       ( 408104.5, 3739623.9,      16.0,      16.0,       2.0);         ( 408119.5,
          3739600.2,      16.0,      16.0,       2.0);
276       ( 408111.3, 3739580.4,      16.0,      16.0,       2.0);         ( 408109.8,
          3739556.6,      16.0,      16.0,       2.0);
277       ( 408095.8, 3739518.4,      16.0,      16.0,       2.0);         ( 408049.1,
          3739521.3,      16.0,      16.0,       2.0);
278       ( 408030.3, 3739469.3,      15.7,      15.7,       2.0);         ( 408051.4,
          3739431.8,      15.3,      15.3,       2.0);
279       ( 408048.8, 3739413.1,      15.1,      15.1,       2.0);         ( 408120.0,
          3739487.2,      15.9,      15.9,       2.0);
280       ( 408143.3, 3739399.1,      15.0,      15.0,       2.0);         ( 408113.7,
          3739342.9,      15.0,      15.0,       2.0);
281       ( 408036.1, 3739355.3,      15.0,      15.0,       2.0);         ( 408044.3,
          3739318.9,      15.0,      15.0,       2.0);
282       ( 408094.7, 3739318.3,      15.0,      15.0,       2.0);         ( 408030.6,
          3739231.0,      15.0,      15.0,       2.0);
283       ( 408044.8, 3739253.9,      15.0,      15.0,       2.0);         ( 408042.5,
          3739166.9,      15.0,      15.0,       2.0);
284       ( 408100.5, 3739231.5,      15.0,      15.0,       2.0);         ( 408095.2,
          3739266.6,      15.0,      15.0,       2.0);
285       ( 408153.3, 3739163.2,      15.0,      15.0,       2.0);         ( 408102.4,
          3739115.7,      15.0,      15.0,       2.0);
286       ( 408031.1, 3739101.4,      15.0,      15.0,       2.0);         ( 408024.7,
          3738983.5,      15.0,      15.0,       2.0);
287       ( 408020.6, 3738926.4,      15.0,      15.0,       2.0);         ( 408110.6,
          3738949.7,      15.0,      15.0,       2.0);
288       ( 408105.0, 3738895.1,      15.0,      15.0,       2.0);         ( 408020.2,
          3738908.3,      15.0,      15.0,       2.0);
289       ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
          3738847.7,      15.0,      15.0,       2.0);
290       ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
          3738720.3,      15.0,      15.0,       2.0);
291       ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
```

```
      3738592.6,      15.0,      15.0,       2.0);
292   ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
      3738503.3,      15.0,      15.0,       2.0);
293   ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
      3738418.1,      15.0,      15.0,       2.0);
294   ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
      3738381.3,      15.0,      15.0,       2.0);
295   ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
      3738264.6,      15.0,      15.0,       2.0);
296   ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
      3738242.1,      15.0,      15.0,       2.0);
297   ( 408043.7, 3738177.3,      15.0,      15.0,       2.0);         ( 408038.7,
      3738205.1,      15.0,      15.0,       2.0);
298   ( 408105.8, 3738177.3,      15.0,      15.0,       2.0);         ( 408100.9,
      3738142.2,      15.0,      15.0,       2.0);
299   ( 408046.2, 3738135.9,      15.0,      15.0,       2.0);         ( 408045.0,
      3738101.6,      15.0,      15.0,       2.0);
300   ( 408047.1, 3738076.0,      15.0,      15.0,       2.0);         ( 408045.2,
      3738042.3,      15.0,      15.0,       2.0);
301   ( 408102.6, 3738105.0,      15.0,      15.0,       2.0);         ( 408103.0,
      3738048.6,      15.0,      15.0,       2.0);
302   ( 408044.8, 3738009.1,      15.0,      15.0,       2.0);         ( 408044.7,
      3737975.6,      15.0,      15.0,       2.0);
303   ( 408043.7, 3737948.9,      15.0,      15.0,       2.0);         ( 408103.0,
      3737978.7,      15.0,      15.0,       2.0);
304   ( 408103.3, 3737940.5,      15.0,      15.0,       2.0);         ( 408048.4,
      3737902.4,      15.0,      15.0,       2.0);
305   ( 408048.4, 3737871.6,      15.0,      15.0,       2.0);         ( 408047.4,
      3737836.5,      15.0,      15.0,       2.0);
306   ( 408047.4, 3737814.3,      15.0,      15.0,       2.0);         ( 408098.3,
      3737909.0,      15.0,      15.0,       2.0);
307   ( 408099.1, 3737881.1,      15.0,      15.0,       2.0);         ( 408099.1,
      3737861.8,      15.0,      15.0,       2.0);
308   ( 408099.6, 3737832.2,      15.0,      15.0,       2.0);         ( 408097.8,
      3737796.1,      15.0,      15.0,       2.0);
309   ( 408099.1, 3737765.7,      15.0,      15.0,       2.0);         ( 408043.9,
      3737693.9,      15.0,      15.0,       2.0);
310   ( 408098.0, 3737736.4,      15.0,      15.0,       2.0);         ( 408113.3,
      3737692.4,      15.0,      15.0,       2.0);
311   ( 408042.6, 3737678.4,      15.0,      15.0,       2.0);         ( 408043.9,
      3737600.0,      15.0,      15.0,       2.0);
312   ( 408110.4, 3737585.2,      15.0,      15.0,       2.0);         ( 408045.0,
      3737547.5,      15.1,      15.1,       2.0);
313   ( 408102.5, 3737553.3,      15.0,      15.0,       2.0);         ( 408048.7,
      3737498.9,      15.4,      15.4,       2.0);
314   ( 408103.3, 3737456.2,      15.0,      15.0,       2.0);         ( 408133.9,
      3737465.7,      15.0,      15.0,       2.0);
315   ( 408119.1, 3737401.3,      15.0,      15.0,       2.0);         ( 408016.5,
      3737427.7,      16.0,      16.0,       2.0);
316   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
317    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:06:07
318
                                  PAGE   7
319    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
320
321                                          *** METEOROLOGICAL DAYS SELECTED FOR
                                             PROCESSING ***
322                                                    (1=YES; 0=NO)
323
324              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
325              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
```

```
326             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
327             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
328             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
329             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
330             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
331             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
332
333                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                    IS INCLUDED IN THE DATA FILE.
334
335
336
337                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                    CATEGORIES ***
338                                                 (METERS/SEC)
339
340                                                1.54,   3.09,   5.14,   8.23,  10.80,
341  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        09/12/24
342   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:06:07
343
                                  PAGE   8
344   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
345
346                                 *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                    ***
347
348       Surface file:
          ..\KFUL_V9_ADJU\KFUL_v9.SFC
          Met Version:  16216
349       Profile file:
          ..\KFUL_V9_ADJU\KFUL_v9.PFL
350       Surface format:
          FREE

351       Profile format:
          FREE

352       Surface station no.:     3166                Upper air station no.:     3190
353                     Name: UNKNOWN                                  Name:
                        UNKNOWN
354                     Year:   2012                                   Year:   2012
355
356   First 24 hours of scalar data
357   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
358 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - -
359   12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
      0.96  322.   10.1  283.8    2.0
360   12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
      0.52   13.   10.1  283.1    2.0
361   12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   73.   10.1  282.0    2.0
362   12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
      0.91   98.   10.1  281.4    2.0
363   12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
      0.00    0.   10.1  280.9    2.0
364   12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
```

```
      0.55   80.   10.1  280.4    2.0
365   12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.69  201.   10.1  280.4    2.0
366   12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
      0.52   72.   10.1  280.9    2.0
367   12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
      0.00    0.   10.1  285.9    2.0
368   12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
      0.79  268.   10.1  289.9    2.0
369   12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
      0.70  273.   10.1  294.2    2.0
370   12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
      0.74  230.   10.1  297.5    2.0
371   12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
      1.20  227.   10.1  300.4    2.0
372   12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
      1.47  233.   10.1  300.9    2.0
373   12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
      1.20  233.   10.1  302.0    2.0
374   12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
      1.91  229.   10.1  298.1    2.0
375   12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
      1.37  212.   10.1  294.2    2.0
376   12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
      0.91  190.   10.1  292.0    2.0
377   12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.70  302.   10.1  289.2    2.0
378   12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
      0.87  338.   10.1  288.1    2.0
379   12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
      1.11  304.   10.1  287.0    2.0
380   12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   76.   10.1  285.4    2.0
381   12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
      0.62  306.   10.1  284.9    2.0
382   12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
      0.82  318.   10.1  283.8    2.0
383
384
385   First hour of profile data
386   YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
387   12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
388
389   F indicates top of profile (=1) or below (=0)
390   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
391    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:06:07
392
                                  PAGE   9
393    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
394
395                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
396                                   INCLUDING SOURCE(S):     VOL1        ,
397
398                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
399
400                                        ** CONC OF NOX      IN
                                           MICROGRAMS/M**3                          **
401
402        X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
           Y-COORD (M)        CONC     (YYMMDDHH)
403    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - - - - -
```

404	407197.41	3740354.49	6.43645	(13041407)	407183.18
	3740347.13	6.91006	(14062706)		
405	407241.68	3740347.31	10.13175	(14120316)	407108.00
	3740378.65	1.89844	(13052506)		
406	407224.06	3740354.48	10.06122	(14120316)	407152.04
	3740351.83	4.02476	(13052506)		
407	407136.97	3740351.17	3.89932	(13052506)	407159.65
	3740296.70	7.67622	(15042107)		
408	407297.73	3740355.14	4.37393	(12020617)	407311.17
	3740228.02	2.42174	(15122816)		
409	407298.05	3740416.88	2.36037	(14090818)	407263.48
	3740425.06	2.85089	(14120316)		
410	407263.74	3740448.28	2.26210	(14120316)	407253.45
	3740517.68	1.17405	(14120316)		
411	407327.60	3740465.69	1.38604	(14090818)	407319.95
	3740498.68	1.07784	(14041207)		
412	407304.91	3740552.25	0.91258	(14041207)	407237.88
	3740641.18	0.46595	(16090507)		
413	407278.52	3740698.17	0.39612	(16090507)	407244.48
	3740705.83	0.34309	(16090507)		
414	407239.73	3740783.14	0.25935	(16121116)	407288.55
	3740769.42	0.29572	(16090507)		
415	407312.56	3740721.66	0.36429	(14120316)	407365.60
	3740769.16	0.32308	(14041207)		
416	407462.18	3740703.72	0.33317	(14090818)	407432.10
	3740769.95	0.26515	(14041207)		
417	407470.10	3740781.30	0.23583	(14090818)	407542.40
	3740786.31	0.23529	(14090818)		
418	407549.79	3740722.71	0.24939	(12020617)	407600.19
	3740718.49	0.25506	(12020617)		
419	407625.79	3740721.40	0.24500	(12020617)	407594.92
	3740777.07	0.19937	(12020617)		
420	407632.65	3740776.55	0.20435	(12020617)	407648.48
	3740721.13	0.23459	(12020617)		
421	407695.98	3740777.60	0.19152	(12020617)	407734.24
	3740777.34	0.17554	(12020617)		
422	407687.54	3740721.13	0.20998	(12020617)	407708.65
	3740721.92	0.19468	(12020617)		
423	407747.18	3740719.28	0.16532	(12020617)	407826.87
	3740725.09	0.11167	(12020617)		
424	407833.99	3740775.23	0.12113	(12020617)	407890.20
	3740776.02	0.09287	(12020617)		
425	408036.65	3740709.78	0.07568	(12121416)	407940.07
	3740773.12	0.07979	(12101717)		
426	408001.03	3740769.95	0.07177	(12101717)	408098.93
	3740786.05	0.05801	(12101717)		
427	408037.45	3740766.78	0.06654	(12101717)	408143.26
	3740705.83	0.07004	(12121416)		
428	408047.47	3740684.98	0.08093	(12121416)	408047.74
	3740646.45	0.08688	(12121416)		
429	408114.76	3740578.37	0.08815	(12101617)	408044.04
	3740580.22	0.09733	(12101617)		
430	408003.40	3740456.19	0.10634	(12101617)	408103.42
	3740460.94	0.08255	(12101617)		
431	408116.08	3740373.86	0.06710	(12090218)	408040.35
	3740381.52	0.07404	(13090218)		
432	408035.60	3740363.04	0.08135	(12090218)	408037.71
	3740330.06	0.09088	(12090218)		
433	408108.69	3740314.49	0.08153	(12090218)	408036.13
	3740271.21	0.09868	(12090218)		
434	408036.92	3740242.45	0.10800	(13090518)	408101.04
	3740277.02	0.08619	(12090218)		
435	408103.94	3740244.03	0.09196	(13090518)	408101.57
	3740214.48	0.09883	(13090518)		
436	408100.51	3740178.06	0.10290	(13090518)	408102.10
	3740150.62	0.10230	(13090518)		

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          408102.89   3740094.41        0.09321  (13090518)                 408036.92
          3740194.42        0.11695  (13090518)
          408038.24   3740166.45        0.11699  (13090518)                 408037.45
          3740106.02        0.10643  (13090518)
          408037.45   3740075.68        0.09630  (13090518)                 408050.64
          3740016.83        0.08066  (16050618)
          408116.35   3740034.51        0.07461  (13090518)                 408099.19
          3739975.93        0.07091  (16050618)
          408050.90   3739972.50        0.07638  (16050618)                 408031.64
          3739915.50        0.07948  (15122816)
          408098.67   3739906.53        0.06647  (15122816)                 408032.17
          3739895.71        0.08053  (15122816)
          408029.79   3739877.76        0.08107  (15122816)                 408032.96
          3739857.97        0.07996  (15122816)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 14:06:07

                                PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

                                             *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
          408034.54   3739829.21        0.07759  (15122816)                 408118.46
          3739870.11        0.06615  (15122816)
          408107.37   3739824.46        0.06891  (15122816)                 408099.19
          3739716.27        0.05758  (15122816)
          408106.85   3739752.95        0.06309  (15122816)                 408100.78
          3739693.84        0.05354  (15122816)
          408038.24   3739768.78        0.06800  (15122816)                 408032.96
          3739817.34        0.07635  (15122816)
          408036.13   3739727.88        0.05929  (15122816)                 408035.86
          3739675.63        0.05012  (14030117)
          408037.97   3739639.48        0.04744  (14030117)                 408037.71
          3739589.61        0.04269  (14030117)
          408032.17   3739560.84        0.03944  (14030117)                 408102.36
          3739661.12        0.04732  (15122816)
          408104.47   3739623.91        0.04334  (14030117)                 408119.51
          3739600.16        0.04144  (14030117)
          408111.33   3739580.37        0.04057  (14030117)                 408109.75
          3739556.62        0.03889  (14030117)
          408095.76   3739518.36        0.03563  (14030117)                 408049.06
          3739521.26        0.03520  (14030117)
          408030.32   3739469.28        0.03691  (16020617)                 408051.43
          3739431.80        0.03523  (16020617)
          408048.79   3739413.07        0.03552  (16020617)                 408120.04
          3739487.22        0.03298  (14030117)
          408143.26   3739399.08        0.02767  (16020617)                 408113.71
          3739342.88        0.03062  (16020617)
          408036.13   3739355.28        0.03570  (16020617)                 408044.31
          3739318.86        0.03432  (16020617)
          408094.71   3739318.34        0.03168  (16020617)                 408030.58
          3739230.99        0.03120  (16020617)
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473          408044.83   3739253.95        0.03199  (16020617)                408042.46
             3739166.87        0.02798  (16020617)
474          408100.51   3739231.52        0.02967  (16020617)                408095.24
             3739266.61        0.03075  (16020617)
475          408153.29   3739163.17        0.02639  (16020617)                408102.36
             3739115.67        0.02562  (16020617)
476          408031.11   3739101.42        0.02446  (16020617)                408024.67
             3738983.53        0.01931  (16021719)
477          408020.63   3738926.41        0.01887  (12050307)                408110.61
             3738949.66        0.01879  (16020617)
478          408105.05   3738895.07        0.01718  (16021719)                408020.24
             3738908.31        0.01902  (12050307)
479          408109.28   3738857.21        0.01677  (16021719)                408042.54
             3738847.68        0.01859  (12050307)
480          408045.02   3738755.01        0.01893  (12050307)                408109.28
             3738720.31        0.01717  (12050307)
481          408050.93   3738693.43        0.01921  (13041207)                408054.37
             3738592.56        0.02058  (13041207)
482          408101.27   3738540.13        0.01794  (13041207)                408053.60
             3738503.33        0.02157  (13041207)
483          408053.41   3738429.16        0.02199  (13041207)                408118.24
             3738418.10        0.01835  (13041207)
484          408052.46   3738369.67        0.02214  (13041207)                408134.26
             3738381.30        0.01779  (13041207)
485          408135.97   3738350.60        0.01798  (13041207)                408044.45
             3738264.61        0.02215  (13041207)
486          408117.29   3738288.25        0.01931  (13041207)                408119.00
             3738242.11        0.01938  (13041207)
487          408043.69   3738177.28        0.02154  (13041207)                408038.73
             3738205.12        0.02188  (13041207)
488          408105.85   3738177.28        0.01988  (13041207)                408100.89
             3738142.20        0.01994  (13041207)
489          408046.17   3738135.91        0.02111  (13041207)                408045.02
             3738101.59        0.02078  (13041207)
490          408047.12   3738076.04        0.02049  (13041207)                408045.21
             3738042.29        0.02012  (13041207)
491          408102.61   3738105.02        0.01975  (13041207)                408102.99
             3738048.58        0.01944  (13041207)
492          408044.83   3738009.11        0.01972  (13041207)                408044.72
             3737975.56        0.01930  (13041207)
493          408043.67   3737948.90        0.01896  (13041207)                408103.05
             3737978.72        0.01895  (13041207)
494          408103.31   3737940.46        0.01863  (13041207)                408048.42
             3737902.45        0.01836  (13041207)
495          408048.42   3737871.57        0.01795  (13041207)                408047.36
             3737836.47        0.01746  (13041207)
496          408047.36   3737814.30        0.01716  (13041207)                408098.30
             3737909.05        0.01839  (13041207)
497          408099.09   3737881.07        0.01812  (13041207)                408099.09
             3737861.81        0.01792  (13041207)
498  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
499   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:06:07
500
                                PAGE  11
501   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
502
503                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
504                                   INCLUDING SOURCE(S):     VOL1        ,
505
506                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
507
508                                         ** CONC OF NOX      IN
```

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

408099.62	3737832.25	0.01762	(13041207)	408097.77	3737796.09	0.01723	(13041207)
408099.09	3737765.74	0.01690	(13041207)	408043.93	3737693.95	0.01545	(13041207)
408098.03	3737736.44	0.01657	(13041207)	408113.34	3737692.37	0.01616	(13041207)
408042.61	3737678.38	0.01521	(13041207)	408043.93	3737600.00	0.01416	(13041207)
408110.44	3737585.22	0.01494	(13041207)	408044.98	3737547.48	0.01347	(13041207)
408102.52	3737553.28	0.01448	(13041207)	408048.68	3737498.91	0.01292	(13041207)
408103.31	3737456.16	0.01337	(13041207)	408133.93	3737465.66	0.01389	(13041207)
408119.15	3737401.26	0.01299	(13041207)	408016.48	3737427.66	0.01131	(13041207)

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

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	10.13175	ON 14120316: AT (407241.68, 3740347.31, 18.00, 18.00, 2.00)	DC	

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

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

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

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of         2285 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1588 Calm Hours Identified

A Total of          697 Missing Hours Identified (  1.59 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186      64       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
used           0.50
ME W187      64       MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

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

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops PM10\16113-02 Ops PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.0005770703     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "16113-02 OPS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "16113-02 Ops PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops PM10\16113-02 Ops PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.0005770703     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
67   ** AERMOD Output Pathway
68   ****************************************
69   **
70   **
71   OU STARTING
72      RECTABLE ALLAVE 1ST
73      RECTABLE 24 1ST
74   ** Auto-Generated Plotfiles
75      PLOTFILE 24 ALL 1ST "16113-02 OPS PM10.AD\24H1GALL.PLT" 31
76      SUMMFILE "16113-02 Ops PM10.sum"
77   OU FINISHED
78
79
80     *** Message Summary For AERMOD Model Setup ***
81
82     --------- Summary of Total Messages --------
83
84    A Total of            0 Fatal Error Message(s)
85    A Total of            2 Warning Message(s)
86    A Total of            0 Informational Message(s)
87
88
89       ******** FATAL ERROR MESSAGES ********
90                  ***  NONE  ***
91
92
93       ********   WARNING MESSAGES   ********
94    ME W186      64       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
      used           0.50
95    ME W187      64       MEOPEN: ADJ_U* Option for Stable Low Winds used in
      AERMET
96
97    ***********************************
98    *** SETUP Finishes Successfully ***
99    ***********************************
100
101  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
102   *** AERMET - VERSION  16216 ***
      ***                                                                  ***
      14:08:18
103
                                PAGE   1
104   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
105
106                                            ***     MODEL SETUP OPTIONS SUMMARY       ***
107   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - -
108
109   ** Model Options Selected:
110        * Model Uses Regulatory DEFAULT Options
111        * Model Is Setup For Calculation of Average CONCentration Values.
112        * NO GAS DEPOSITION Data Provided.
113        * NO PARTICLE DEPOSITION Data Provided.
114        * Model Uses NO DRY DEPLETION. DDPLETE  =  F
115        * Model Uses NO WET DEPLETION. WETDPLT  =  F
116        * Stack-tip Downwash.
117        * Model Accounts for ELEVated Terrain Effects.
118        * Use Calms Processing Routine.
119        * Use Missing Data Processing Routine.
120        * No Exponential Decay.
121        * Model Uses URBAN Dispersion Algorithm for the SBL for     1 Source(s),
122          for Total of    1 Urban Area(s):
123      Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
124        * Urban Roughness Length of 1.0 Meter Used.
125        * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
```

```
126         * CCVR_Sub - Meteorological data includes CCVR substitutions
127         * TEMP_Sub - Meteorological data includes TEMP substitutions
128         * Model Accepts FLAGPOLE Receptor . Heights.
129         * The User Specified a Pollutant Type of: PM_10
130
131    **Model Calculates  1 Short Term Average(s) of:  24-HR
132
133    **This Run Includes:      1 Source(s);       1 Source Group(s); and     176 Receptor(s)
134
135                   with:      0 POINT(s), including
136                              0 POINTCAP(s) and      0 POINTHOR(s)
137                    and:      1 VOLUME source(s)
138                    and:      0 AREA type source(s)
139                    and:      0 LINE source(s)
140                    and:      0 RLINE/RLINEXT source(s)
141                    and:      0 OPENPIT source(s)
142                    and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
143                    and:      0 SWPOINT source(s)
144
145
146    **Model Set To Continue RUNning After the Setup Testing.
147
148    **The AERMET Input Meteorological Data Version Date:  16216
149
150    **Output Options Selected:
151             Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
                Keyword)
152             Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
153             Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
154
155    **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
156                                                                    m for Missing Hours
157                                                                    b for Both Calm and
                                                                       Missing Hours
158
159    **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    29.00 ;  Decay Coef.
       =    0.000     ;  Rot. Angle =     0.0
160                      Emission Units = GRAMS/SEC                              ;  Emission
                         Rate Unit Factor =   0.10000E+07
161                      Output Units   = MICROGRAMS/M**3
162
163    **Approximate Storage Requirements of Model =      3.5 MB of RAM.
164
165    **Input Runstream File:
       aermod.inp

166    **Output Print File:
       aermod.out

167
168    **Detailed Error/Message File:   16113-02 Ops
       PM10.err
169    **File for Summary of Results:   16113-02 Ops
       PM10.sum
170    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
171    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:08:18
172
                                    PAGE   2
173    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
174
175
176                                                  *** VOLUME SOURCE DATA ***
177
```

```
178                NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
                   INIT.   URBAN  EMISSION RATE   AIRCRAFT
179      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
         SZ     SOURCE  SCALAR VARY
180        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
           (METERS)              BY
181    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - - -
182
183     VOL1             0   0.57707E-03  407216.8 3740298.7    18.4     5.00    21.79
        1.40     YES                    NO
184    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
185     *** AERMET - VERSION  16216 ***
        ***                                                                      ***
        14:08:18
186
                                    PAGE   3
187     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
188
189
190                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***
191
192     SRCGROUP ID                                                SOURCE IDs
193     -----------                                                ----------
194
195
196      ALL        VOL1        ,
197    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
198     *** AERMET - VERSION  16216 ***
        ***                                                                      ***
        14:08:18
199
                                    PAGE   4
200     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
201
202
203                                         *** SOURCE IDs DEFINED AS URBAN SOURCES ***
204
205      URBAN ID   URBAN POP                                      SOURCE IDs
206      --------   ---------                                      ----------
207
208
209                 3010232.   VOL1        ,
210    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
211     *** AERMET - VERSION  16216 ***
        ***                                                                      ***
        14:08:18
212
                                    PAGE   5
213     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
214
215                                           *** DISCRETE CARTESIAN RECEPTORS ***
216                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
217                                                      (METERS)
218
219         ( 407197.4, 3740354.5,      18.0,      18.0,       2.0);         ( 407183.2,
            3740347.1,      18.2,      18.2,       2.0);
220         ( 407241.7, 3740347.3,      18.0,      18.0,       2.0);         ( 407108.0,
            3740378.6,      18.1,      18.1,       2.0);
221         ( 407224.1, 3740354.5,      18.0,      18.0,       2.0);         ( 407152.0,
            3740351.8,      18.5,      18.5,       2.0);
222         ( 407137.0, 3740351.2,      18.7,      18.7,       2.0);         ( 407159.6,
            3740296.7,      18.8,      18.8,       2.0);
```

```
223         ( 407297.7, 3740355.1,      18.2,      18.2,       2.0);         ( 407311.2,
            3740228.0,      19.0,      19.0,       2.0);
224         ( 407298.0, 3740416.9,      18.0,      18.0,       2.0);         ( 407263.5,
            3740425.1,      18.0,      18.0,       2.0);
225         ( 407263.7, 3740448.3,      17.8,      17.8,       2.0);         ( 407253.5,
            3740517.7,      17.1,      17.1,       2.0);
226         ( 407327.6, 3740465.7,      17.9,      17.9,       2.0);         ( 407320.0,
            3740498.7,      17.6,      17.6,       2.0);
227         ( 407304.9, 3740552.2,      17.2,      17.2,       2.0);         ( 407237.9,
            3740641.2,      17.0,      17.0,       2.0);
228         ( 407278.5, 3740698.2,      17.0,      17.0,       2.0);         ( 407244.5,
            3740705.8,      17.0,      17.0,       2.0);
229         ( 407239.7, 3740783.1,      17.0,      17.0,       2.0);         ( 407288.5,
            3740769.4,      17.0,      17.0,       2.0);
230         ( 407312.6, 3740721.7,      17.1,      17.1,       2.0);         ( 407365.6,
            3740769.2,      17.7,      17.7,       2.0);
231         ( 407462.2, 3740703.7,      18.3,      18.3,       2.0);         ( 407432.1,
            3740769.9,      18.0,      18.0,       2.0);
232         ( 407470.1, 3740781.3,      18.4,      18.4,       2.0);         ( 407542.4,
            3740786.3,      19.0,      19.0,       2.0);
233         ( 407549.8, 3740722.7,      19.0,      19.0,       2.0);         ( 407600.2,
            3740718.5,      19.1,      19.1,       2.0);
234         ( 407625.8, 3740721.4,      19.4,      19.4,       2.0);         ( 407594.9,
            3740777.1,      19.0,      19.0,       2.0);
235         ( 407632.6, 3740776.5,      19.5,      19.5,       2.0);         ( 407648.5,
            3740721.1,      19.7,      19.7,       2.0);
236         ( 407696.0, 3740777.6,      20.3,      20.3,       2.0);         ( 407734.2,
            3740777.3,      20.7,      20.7,       2.0);
237         ( 407687.5, 3740721.1,      20.0,      20.0,       2.0);         ( 407708.6,
            3740721.9,      20.1,      20.1,       2.0);
238         ( 407747.2, 3740719.3,      20.2,      20.2,       2.0);         ( 407826.9,
            3740725.1,      20.0,      20.0,       2.0);
239         ( 407834.0, 3740775.2,      20.0,      20.0,       2.0);         ( 407890.2,
            3740776.0,      20.0,      20.0,       2.0);
240         ( 408036.6, 3740709.8,      19.2,      19.2,       2.0);         ( 407940.1,
            3740773.1,      20.0,      20.0,       2.0);
241         ( 408001.0, 3740769.9,      19.7,      19.7,       2.0);         ( 408098.9,
            3740786.0,      19.0,      19.0,       2.0);
242         ( 408037.5, 3740766.8,      19.2,      19.2,       2.0);         ( 408143.3,
            3740705.8,      19.0,      19.0,       2.0);
243         ( 408047.5, 3740685.0,      19.1,      19.1,       2.0);         ( 408047.7,
            3740646.4,      19.0,      19.0,       2.0);
244         ( 408114.8, 3740578.4,      19.0,      19.0,       2.0);         ( 408044.0,
            3740580.2,      19.0,      19.0,       2.0);
245         ( 408003.4, 3740456.2,      19.0,      19.0,       2.0);         ( 408103.4,
            3740460.9,      19.0,      19.0,       2.0);
246         ( 408116.1, 3740373.9,      19.0,      19.0,       2.0);         ( 408040.3,
            3740381.5,      19.1,      19.1,       2.0);
247         ( 408035.6, 3740363.0,      19.1,      19.1,       2.0);         ( 408037.7,
            3740330.1,      19.2,      19.2,       2.0);
248         ( 408108.7, 3740314.5,      19.0,      19.0,       2.0);         ( 408036.1,
            3740271.2,      19.2,      19.2,       2.0);
249         ( 408036.9, 3740242.4,      19.2,      19.2,       2.0);         ( 408101.0,
            3740277.0,      19.0,      19.0,       2.0);
250         ( 408103.9, 3740244.0,      19.0,      19.0,       2.0);         ( 408101.6,
            3740214.5,      19.0,      19.0,       2.0);
251         ( 408100.5, 3740178.1,      19.0,      19.0,       2.0);         ( 408102.1,
            3740150.6,      19.0,      19.0,       2.0);
252         ( 408102.9, 3740094.4,      18.6,      18.6,       2.0);         ( 408036.9,
            3740194.4,      19.1,      19.1,       2.0);
253         ( 408038.2, 3740166.4,      19.0,      19.0,       2.0);         ( 408037.5,
            3740106.0,      19.0,      19.0,       2.0);
254         ( 408037.5, 3740075.7,      19.0,      19.0,       2.0);         ( 408050.6,
            3740016.8,      18.6,      18.6,       2.0);
255         ( 408116.3, 3740034.5,      18.1,      18.1,       2.0);         ( 408099.2,
            3739975.9,      18.1,      18.1,       2.0);
```

```
256       ( 408050.9, 3739972.5,      18.1,      18.1,       2.0);         ( 408031.6,
          3739915.5,      17.5,      17.5,       2.0);
257       ( 408098.7, 3739906.5,      17.4,      17.4,       2.0);         ( 408032.2,
          3739895.7,      17.3,      17.3,       2.0);
258       ( 408029.8, 3739877.8,      17.1,      17.1,       2.0);         ( 408033.0,
          3739858.0,      17.0,      17.0,       2.0);
259       ( 408034.5, 3739829.2,      17.0,      17.0,       2.0);         ( 408118.5,
          3739870.1,      17.0,      17.0,       2.0);
260       ( 408107.4, 3739824.5,      17.0,      17.0,       2.0);         ( 408099.2,
          3739716.3,      16.3,      16.3,       2.0);
261       ( 408106.8, 3739752.9,      16.7,      16.7,       2.0);         ( 408100.8,
          3739693.8,      16.1,      16.1,       2.0);
262       ( 408038.2, 3739768.8,      16.9,      16.9,       2.0);         ( 408033.0,
          3739817.3,      17.0,      17.0,       2.0);
263       ( 408036.1, 3739727.9,      16.5,      16.5,       2.0);         ( 408035.9,
          3739675.6,      16.0,      16.0,       2.0);
264   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
265    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:08:18
266
                                  PAGE   6
267    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
268
269                                          *** DISCRETE CARTESIAN RECEPTORS ***
270                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
271                                                  (METERS)
272
273       ( 408038.0, 3739639.5,      16.0,      16.0,       2.0);         ( 408037.7,
          3739589.6,      16.0,      16.0,       2.0);
274       ( 408032.2, 3739560.8,      16.0,      16.0,       2.0);         ( 408102.4,
          3739661.1,      16.0,      16.0,       2.0);
275       ( 408104.5, 3739623.9,      16.0,      16.0,       2.0);         ( 408119.5,
          3739600.2,      16.0,      16.0,       2.0);
276       ( 408111.3, 3739580.4,      16.0,      16.0,       2.0);         ( 408109.8,
          3739556.6,      16.0,      16.0,       2.0);
277       ( 408095.8, 3739518.4,      16.0,      16.0,       2.0);         ( 408049.1,
          3739521.3,      16.0,      16.0,       2.0);
278       ( 408030.3, 3739469.3,      15.7,      15.7,       2.0);         ( 408051.4,
          3739431.8,      15.3,      15.3,       2.0);
279       ( 408048.8, 3739413.1,      15.1,      15.1,       2.0);         ( 408120.0,
          3739487.2,      15.9,      15.9,       2.0);
280       ( 408143.3, 3739399.1,      15.0,      15.0,       2.0);         ( 408113.7,
          3739342.9,      15.0,      15.0,       2.0);
281       ( 408036.1, 3739355.3,      15.0,      15.0,       2.0);         ( 408044.3,
          3739318.9,      15.0,      15.0,       2.0);
282       ( 408094.7, 3739318.3,      15.0,      15.0,       2.0);         ( 408030.6,
          3739231.0,      15.0,      15.0,       2.0);
283       ( 408044.8, 3739253.9,      15.0,      15.0,       2.0);         ( 408042.5,
          3739166.9,      15.0,      15.0,       2.0);
284       ( 408100.5, 3739231.5,      15.0,      15.0,       2.0);         ( 408095.2,
          3739266.6,      15.0,      15.0,       2.0);
285       ( 408153.3, 3739163.2,      15.0,      15.0,       2.0);         ( 408102.4,
          3739115.7,      15.0,      15.0,       2.0);
286       ( 408031.1, 3739101.4,      15.0,      15.0,       2.0);         ( 408024.7,
          3738983.5,      15.0,      15.0,       2.0);
287       ( 408020.6, 3738926.4,      15.0,      15.0,       2.0);         ( 408110.6,
          3738949.7,      15.0,      15.0,       2.0);
288       ( 408105.0, 3738895.1,      15.0,      15.0,       2.0);         ( 408020.2,
          3738908.3,      15.0,      15.0,       2.0);
289       ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
          3738847.7,      15.0,      15.0,       2.0);
290       ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
          3738720.3,      15.0,      15.0,       2.0);
291       ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
```

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      3738592.6,      15.0,      15.0,       2.0);
292   ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
      3738503.3,      15.0,      15.0,       2.0);
293   ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
      3738418.1,      15.0,      15.0,       2.0);
294   ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
      3738381.3,      15.0,      15.0,       2.0);
295   ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
      3738264.6,      15.0,      15.0,       2.0);
296   ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
      3738242.1,      15.0,      15.0,       2.0);
297   ( 408043.7, 3738177.3,      15.0,      15.0,       2.0);         ( 408038.7,
      3738205.1,      15.0,      15.0,       2.0);
298   ( 408105.8, 3738177.3,      15.0,      15.0,       2.0);         ( 408100.9,
      3738142.2,      15.0,      15.0,       2.0);
299   ( 408046.2, 3738135.9,      15.0,      15.0,       2.0);         ( 408045.0,
      3738101.6,      15.0,      15.0,       2.0);
300   ( 408047.1, 3738076.0,      15.0,      15.0,       2.0);         ( 408045.2,
      3738042.3,      15.0,      15.0,       2.0);
301   ( 408102.6, 3738105.0,      15.0,      15.0,       2.0);         ( 408103.0,
      3738048.6,      15.0,      15.0,       2.0);
302   ( 408044.8, 3738009.1,      15.0,      15.0,       2.0);         ( 408044.7,
      3737975.6,      15.0,      15.0,       2.0);
303   ( 408043.7, 3737948.9,      15.0,      15.0,       2.0);         ( 408103.0,
      3737978.7,      15.0,      15.0,       2.0);
304   ( 408103.3, 3737940.5,      15.0,      15.0,       2.0);         ( 408048.4,
      3737902.4,      15.0,      15.0,       2.0);
305   ( 408048.4, 3737871.6,      15.0,      15.0,       2.0);         ( 408047.4,
      3737836.5,      15.0,      15.0,       2.0);
306   ( 408047.4, 3737814.3,      15.0,      15.0,       2.0);         ( 408098.3,
      3737909.0,      15.0,      15.0,       2.0);
307   ( 408099.1, 3737881.1,      15.0,      15.0,       2.0);         ( 408099.1,
      3737861.8,      15.0,      15.0,       2.0);
308   ( 408099.6, 3737832.2,      15.0,      15.0,       2.0);         ( 408097.8,
      3737796.1,      15.0,      15.0,       2.0);
309   ( 408099.1, 3737765.7,      15.0,      15.0,       2.0);         ( 408043.9,
      3737693.9,      15.0,      15.0,       2.0);
310   ( 408098.0, 3737736.4,      15.0,      15.0,       2.0);         ( 408113.3,
      3737692.4,      15.0,      15.0,       2.0);
311   ( 408042.6, 3737678.4,      15.0,      15.0,       2.0);         ( 408043.9,
      3737600.0,      15.0,      15.0,       2.0);
312   ( 408110.4, 3737585.2,      15.0,      15.0,       2.0);         ( 408045.0,
      3737547.5,      15.1,      15.1,       2.0);
313   ( 408102.5, 3737553.3,      15.0,      15.0,       2.0);         ( 408048.7,
      3737498.9,      15.4,      15.4,       2.0);
314   ( 408103.3, 3737456.2,      15.0,      15.0,       2.0);         ( 408133.9,
      3737465.7,      15.0,      15.0,       2.0);
315   ( 408119.1, 3737401.3,      15.0,      15.0,       2.0);         ( 408016.5,
      3737427.7,      16.0,      16.0,       2.0);
316   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
317    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:08:18
318
                                  PAGE   7
319    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
320
321                                          *** METEOROLOGICAL DAYS SELECTED FOR
                                             PROCESSING ***
322                                                        (1=YES; 0=NO)
323
324              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
325              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
```

```
326             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
327             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
328             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
329             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
330             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
331             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
332
333                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                    IS INCLUDED IN THE DATA FILE.
334
335
336
337                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                    CATEGORIES ***
338                                                 (METERS/SEC)
339
340                                                1.54,   3.09,   5.14,   8.23,  10.80,
341  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        09/12/24
342   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:08:18
343
                                  PAGE   8
344   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
345
346                                 *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                    ***
347
348       Surface file:
          ..\KFUL_V9_ADJU\KFUL_v9.SFC
          Met Version:  16216
349       Profile file:
          ..\KFUL_V9_ADJU\KFUL_v9.PFL
350       Surface format:
          FREE

351       Profile format:
          FREE

352       Surface station no.:     3166                Upper air station no.:     3190
353                     Name: UNKNOWN                                  Name:
                        UNKNOWN
354                     Year:   2012                                   Year:   2012
355
356   First 24 hours of scalar data
357   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
358 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - -
359   12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
      0.96  322.   10.1  283.8    2.0
360   12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
      0.52   13.   10.1  283.1    2.0
361   12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   73.   10.1  282.0    2.0
362   12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
      0.91   98.   10.1  281.4    2.0
363   12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
      0.00    0.   10.1  280.9    2.0
364   12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
```

```
      0.55   80.   10.1  280.4    2.0
365   12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.69  201.   10.1  280.4    2.0
366   12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
      0.52   72.   10.1  280.9    2.0
367   12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
      0.00    0.   10.1  285.9    2.0
368   12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
      0.79  268.   10.1  289.9    2.0
369   12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
      0.70  273.   10.1  294.2    2.0
370   12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
      0.74  230.   10.1  297.5    2.0
371   12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
      1.20  227.   10.1  300.4    2.0
372   12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
      1.47  233.   10.1  300.9    2.0
373   12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
      1.20  233.   10.1  302.0    2.0
374   12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
      1.91  229.   10.1  298.1    2.0
375   12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
      1.37  212.   10.1  294.2    2.0
376   12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
      0.91  190.   10.1  292.0    2.0
377   12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
      0.70  302.   10.1  289.2    2.0
378   12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
      0.87  338.   10.1  288.1    2.0
379   12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
      1.11  304.   10.1  287.0    2.0
380   12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   76.   10.1  285.4    2.0
381   12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
      0.62  306.   10.1  284.9    2.0
382   12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
      0.82  318.   10.1  283.8    2.0
383
384
385   First hour of profile data
386   YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
387   12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00
388
389   F indicates top of profile (=1) or below (=0)
390   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
391   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:08:18
392
                                  PAGE   9
393   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
394
395                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
396                                   INCLUDING SOURCE(S):     VOL1        ,
397
398                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***
399
400                                        ** CONC OF PM_10    IN
                                           MICROGRAMS/M**3                          **
401
402        X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
           Y-COORD (M)        CONC     (YYMMDDHH)
403   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      - - - - - - - - - - - - - - - - - - - -
```

404	407197.41	3740354.49	0.15465m	(13010324)	407183.18
	3740347.13		0.15505m	(13010324)	
405	407241.68	3740347.31	0.19121b	(13112024)	407108.00
	3740378.65		0.03832m	(13010324)	
406	407224.06	3740354.48	0.17046b	(13112024)	407152.04
	3740351.83		0.08590m	(13010324)	
407	407136.97	3740351.17	0.06878m	(13010324)	407159.65
	3740296.70		0.16518	(12121624)	
408	407297.73	3740355.14	0.07062b	(13112024)	407311.17
	3740228.02		0.04819m	(13010324)	
409	407298.05	3740416.88	0.04101b	(13112024)	407263.48
	3740425.06		0.04185b	(13112024)	
410	407263.74	3740448.28	0.03124c	(13111924)	407253.45
	3740517.68		0.01652m	(13010324)	
411	407327.60	3740465.69	0.02321b	(13112024)	407319.95
	3740498.68		0.01829b	(13112024)	
412	407304.91	3740552.25	0.01237c	(13111924)	407237.88
	3740641.18		0.00793m	(13010324)	
413	407278.52	3740698.17	0.00602m	(13010324)	407244.48
	3740705.83		0.00592m	(13010324)	
414	407239.73	3740783.14	0.00443m	(13010324)	407288.55
	3740769.42		0.00457m	(13010324)	
415	407312.56	3740721.66	0.00535m	(13010324)	407365.60
	3740769.16		0.00430m	(13010324)	
416	407462.18	3740703.72	0.00519b	(13112024)	407432.10
	3740769.95		0.00407c	(13111924)	
417	407470.10	3740781.30	0.00389b	(13112024)	407542.40
	3740786.31		0.00364b	(13112024)	
418	407549.79	3740722.71	0.00423b	(13112024)	407600.19
	3740718.49		0.00374b	(13112024)	
419	407625.79	3740721.40	0.00345b	(13112024)	407594.92
	3740777.07		0.00341b	(13112024)	
420	407632.65	3740776.55	0.00313b	(13112024)	407648.48
	3740721.13		0.00322b	(13112024)	
421	407695.98	3740777.60	0.00264b	(13112024)	407734.24
	3740777.34		0.00237b	(13112024)	
422	407687.54	3740721.13	0.00284b	(13112024)	407708.65
	3740721.92		0.00272m	(13010324)	
423	407747.18	3740719.28	0.00253m	(13010324)	407826.87
	3740725.09		0.00216m	(13010324)	
424	407833.99	3740775.23	0.00200m	(13010324)	407890.20
	3740776.02		0.00181m	(13010324)	
425	408036.65	3740709.78	0.00152m	(13010324)	407940.07
	3740773.12		0.00168m	(13010324)	
426	408001.03	3740769.95	0.00153m	(13010324)	408098.93
	3740786.05		0.00130m	(13010324)	
427	408037.45	3740766.78	0.00145m	(13010324)	408143.26
	3740705.83		0.00129m	(13010324)	
428	408047.47	3740684.98	0.00152m	(13010324)	408047.74
	3740646.45		0.00157m	(13010324)	
429	408114.76	3740578.37	0.00146m	(13010324)	408044.04
	3740580.22		0.00165m	(13010324)	
430	408003.40	3740456.19	0.00190m	(13010324)	408103.42
	3740460.94		0.00157m	(13010324)	
431	408116.08	3740373.86	0.00156m	(13010324)	408040.35
	3740381.52		0.00181m	(13010324)	
432	408035.60	3740363.04	0.00183m	(13010324)	408037.71
	3740330.06		0.00183m	(13010324)	
433	408108.69	3740314.49	0.00159m	(13010324)	408036.13
	3740271.21		0.00184m	(13010324)	
434	408036.92	3740242.45	0.00183m	(13010324)	408101.04
	3740277.02		0.00162m	(13010324)	
435	408103.94	3740244.03	0.00160m	(13010324)	408101.57
	3740214.48		0.00160m	(13010324)	
436	408100.51	3740178.06	0.00159m	(13010324)	408102.10
	3740150.62		0.00158m	(13010324)	

```
          408102.89   3740094.41        0.00154m (13010324)                408036.92
          3740194.42        0.00181m (13010324)
          408038.24   3740166.45        0.00179m (13010324)                408037.45
          3740106.02        0.00175m (13010324)
          408037.45   3740075.68        0.00173m (13010324)                408050.64
          3740016.83        0.00163m (13010324)
          408116.35   3740034.51        0.00147m (13010324)                408099.19
          3739975.93        0.00146m (13010324)
          408050.90   3739972.50        0.00158m (13010324)                408031.64
          3739915.50        0.00157m (13010324)
          408098.67   3739906.53        0.00140m (13010324)                408032.17
          3739895.71        0.00154m (13010324)
          408029.79   3739877.76        0.00153m (13010324)                408032.96
          3739857.97        0.00149m (13010324)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 14:08:18

                                PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     VOL1        ,

                                            *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - -
          408034.54   3739829.21        0.00145m (13010324)                408118.46
          3739870.11        0.00132m (13010324)
          408107.37   3739824.46        0.00130m (13010324)                408099.19
          3739716.27        0.00120m (13010324)
          408106.85   3739752.95        0.00123m (13010324)                408100.78
          3739693.84        0.00117m (13010324)
          408038.24   3739768.78        0.00137m (13010324)                408032.96
          3739817.34        0.00144m (13010324)
          408036.13   3739727.88        0.00132m (13010324)                408035.86
          3739675.63        0.00125m (13010324)
          408037.97   3739639.48        0.00121m (13010324)                408037.71
          3739589.61        0.00115m (13010324)
          408032.17   3739560.84        0.00112m (13010324)                408102.36
          3739661.12        0.00114m (13010324)
          408104.47   3739623.91        0.00110m (13010324)                408119.51
          3739600.16        0.00106m (13010324)
          408111.33   3739580.37        0.00105m (13010324)                408109.75
          3739556.62        0.00103m (13010324)
          408095.76   3739518.36        0.00100m (13010324)                408049.06
          3739521.26        0.00106m (13010324)
          408030.32   3739469.28        0.00102m (13010324)                408051.43
          3739431.80        0.00097m (13010324)
          408048.79   3739413.07        0.00095m (13010324)                408120.04
          3739487.22        0.00095m (13010324)
          408143.26   3739399.08        0.00086m (13010324)                408113.71
          3739342.88        0.00084m (13010324)
          408036.13   3739355.28        0.00091m (13010324)                408044.31
          3739318.86        0.00087m (13010324)
          408094.71   3739318.34        0.00083m (13010324)                408030.58
          3739230.99        0.00080m (13010324)
```

```
473          408044.83   3739253.95        0.00081m (13010324)                408042.46
             3739166.87        0.00075m (13010324)
474          408100.51   3739231.52        0.00076m (13010324)                408095.24
             3739266.61        0.00079m (13010324)
475          408153.29   3739163.17        0.00069m (13010324)                408102.36
             3739115.67        0.00069m (13010324)
476          408031.11   3739101.42        0.00071m (13010324)                408024.67
             3738983.53        0.00064m (13010324)
477          408020.63   3738926.41        0.00061m (13010324)                408110.61
             3738949.66        0.00059m (13010324)
478          408105.05   3738895.07        0.00056m (13010324)                408020.24
             3738908.31        0.00060m (13010324)
479          408109.28   3738857.21        0.00054m (13010324)                408042.54
             3738847.68        0.00056m (13010324)
480          408045.02   3738755.01        0.00052m (13010324)                408109.28
             3738720.31        0.00049m (13010324)
481          408050.93   3738693.43        0.00049m (13010324)                408054.37
             3738592.56        0.00045m (13010324)
482          408101.27   3738540.13        0.00042m (13010324)                408053.60
             3738503.33        0.00042m (13010324)
483          408053.41   3738429.16        0.00040m (13010324)                408118.24
             3738418.10        0.00039m (13010324)
484          408052.46   3738369.67        0.00038m (13010324)                408134.26
             3738381.30        0.00037m (13010324)
485          408135.97   3738350.60        0.00037m (13010324)                408044.45
             3738264.61        0.00035m (13010324)
486          408117.29   3738288.25        0.00035m (13010324)                408119.00
             3738242.11        0.00034m (13010324)
487          408043.69   3738177.28        0.00033m (13010324)                408038.73
             3738205.12        0.00034m (13010324)
488          408105.85   3738177.28        0.00033m (13010324)                408100.89
             3738142.20        0.00032m (13010324)
489          408046.17   3738135.91        0.00032m (13010324)                408045.02
             3738101.59        0.00032m (13010324)
490          408047.12   3738076.04        0.00031m (13010324)                408045.21
             3738042.29        0.00030m (13010324)
491          408102.61   3738105.02        0.00031m (13010324)                408102.99
             3738048.58        0.00030m (13010324)
492          408044.83   3738009.11        0.00030m (13010324)                408044.72
             3737975.56        0.00029m (13010324)
493          408043.67   3737948.90        0.00029m (13010324)                408103.05
             3737978.72        0.00029m (13010324)
494          408103.31   3737940.46        0.00028m (13010324)                408048.42
             3737902.45        0.00028m (13010324)
495          408048.42   3737871.57        0.00027m (13010324)                408047.36
             3737836.47        0.00027m (13010324)
496          408047.36   3737814.30        0.00026m (13010324)                408098.30
             3737909.05        0.00028m (13010324)
497          408099.09   3737881.07        0.00027m (13010324)                408099.09
             3737861.81        0.00027m (13010324)
498  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
499   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:08:18
500
                                  PAGE  11
501   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
502
503                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
504                                   INCLUDING SOURCE(S):     VOL1        ,
505
506                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
507
508                                         ** CONC OF PM_10    IN
```

509
510 X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
511 - - -

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of         2285 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1588 Calm Hours Identified

A Total of          697 Missing Hours Identified (  1.59 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186      64       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
used           0.50
ME W187      64       MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

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

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops PM25\16113-02 Ops PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.0005254112     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "16113-02 OPS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "16113-02 Ops PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**

```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Users\atamase\Desktop\HRAs\16113\16113-02 Ops PM25\16113-02 Ops PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\atamase\Desktop\HRAs\16113\16113-02 Const CO\16113-02 Const
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 3010232 Orange_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "16113-02 Ops PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     407216.809  3740298.654       18.450
** Source Parameters **
   SRCPARAM VOL1         0.0005254112     5.000    21.791     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "16113-02 Ops PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\KFUL_V9_ADJU\KFUL_v9.SFC
   PROFFILE ..\KFUL_V9_ADJU\KFUL_v9.PFL
   SURFDATA 3166 2012
   UAIRDATA 3190 2012
   PROFBASE 29.0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "16113-02 OPS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "16113-02 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      64       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
 used           0.50
 ME W187      64       MEOPEN: ADJ_U* Option for Stable Low Winds used in
 AERMET

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

FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 14:10:23

                              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     1 Source(s),
        for Total of    1 Urban Area(s):
    Urban Population =   3010232.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
```

```
126         * CCVR_Sub - Meteorological data includes CCVR substitutions
127         * TEMP_Sub - Meteorological data includes TEMP substitutions
128         * Model Accepts FLAGPOLE Receptor . Heights.
129         * The User Specified a Pollutant Type of: PM_2.5
130
131    **Model Calculates  1 Short Term Average(s) of:  24-HR
132
133    **This Run Includes:      1 Source(s);       1 Source Group(s); and     176 Receptor(s)
134
135                   with:      0 POINT(s), including
136                              0 POINTCAP(s) and      0 POINTHOR(s)
137                    and:      1 VOLUME source(s)
138                    and:      0 AREA type source(s)
139                    and:      0 LINE source(s)
140                    and:      0 RLINE/RLINEXT source(s)
141                    and:      0 OPENPIT source(s)
142                    and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
143                    and:      0 SWPOINT source(s)
144
145
146    **Model Set To Continue RUNning After the Setup Testing.
147
148    **The AERMET Input Meteorological Data Version Date:  16216
149
150    **Output Options Selected:
151             Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
                Keyword)
152             Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
153             Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
154
155    **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
156                                                                    m for Missing Hours
157                                                                    b for Both Calm and
                                                                       Missing Hours
158
159    **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    29.00 ;  Decay Coef.
       =    0.000     ;  Rot. Angle =     0.0
160                      Emission Units = GRAMS/SEC                                ;  Emission
                         Rate Unit Factor =   0.10000E+07
161                      Output Units   = MICROGRAMS/M**3
162
163    **Approximate Storage Requirements of Model =      3.5 MB of RAM.
164
165    **Input Runstream File:
       aermod.inp

166    **Output Print File:
       aermod.out

167
168    **Detailed Error/Message File:   16113-02 Ops
       PM25.err
169    **File for Summary of Results:   16113-02 Ops
       PM25.sum
170    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
171    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:10:23
172
                                    PAGE   2
173    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
174
175
176                                                  *** VOLUME SOURCE DATA ***
177
```

```
178                NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
                   INIT.   URBAN  EMISSION RATE   AIRCRAFT
179      SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
         SZ     SOURCE  SCALAR VARY
180        ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
           (METERS)              BY
181    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       - - - - - - - - - - - - - - - -
182
183     VOL1             0   0.52541E-03  407216.8 3740298.7    18.4     5.00    21.79
        1.40     YES                    NO
184    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
185     *** AERMET - VERSION  16216 ***
        ***                                                                      ***
        14:10:23
186
                                    PAGE   3
187     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
188
189
190                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***
191
192     SRCGROUP ID                                              SOURCE IDs
193     -----------                                              ----------
194
195
196      ALL        VOL1        ,
197    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
198     *** AERMET - VERSION  16216 ***
        ***                                                                      ***
        14:10:23
199
                                    PAGE   4
200     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
201
202
203                                         *** SOURCE IDs DEFINED AS URBAN SOURCES ***
204
205      URBAN ID   URBAN POP                                    SOURCE IDs
206      --------   ---------                                    ----------
207
208
209                 3010232.   VOL1        ,
210    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
211     *** AERMET - VERSION  16216 ***
        ***                                                                      ***
        14:10:23
212
                                    PAGE   5
213     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
214
215                                           *** DISCRETE CARTESIAN RECEPTORS ***
216                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
217                                                      (METERS)
218
219         ( 407197.4, 3740354.5,      18.0,      18.0,       2.0);         ( 407183.2,
            3740347.1,      18.2,      18.2,       2.0);
220         ( 407241.7, 3740347.3,      18.0,      18.0,       2.0);         ( 407108.0,
            3740378.6,      18.1,      18.1,       2.0);
221         ( 407224.1, 3740354.5,      18.0,      18.0,       2.0);         ( 407152.0,
            3740351.8,      18.5,      18.5,       2.0);
222         ( 407137.0, 3740351.2,      18.7,      18.7,       2.0);         ( 407159.6,
            3740296.7,      18.8,      18.8,       2.0);
```

```
223         ( 407297.7, 3740355.1,      18.2,      18.2,       2.0);         ( 407311.2,
            3740228.0,      19.0,      19.0,       2.0);
224         ( 407298.0, 3740416.9,      18.0,      18.0,       2.0);         ( 407263.5,
            3740425.1,      18.0,      18.0,       2.0);
225         ( 407263.7, 3740448.3,      17.8,      17.8,       2.0);         ( 407253.5,
            3740517.7,      17.1,      17.1,       2.0);
226         ( 407327.6, 3740465.7,      17.9,      17.9,       2.0);         ( 407320.0,
            3740498.7,      17.6,      17.6,       2.0);
227         ( 407304.9, 3740552.2,      17.2,      17.2,       2.0);         ( 407237.9,
            3740641.2,      17.0,      17.0,       2.0);
228         ( 407278.5, 3740698.2,      17.0,      17.0,       2.0);         ( 407244.5,
            3740705.8,      17.0,      17.0,       2.0);
229         ( 407239.7, 3740783.1,      17.0,      17.0,       2.0);         ( 407288.5,
            3740769.4,      17.0,      17.0,       2.0);
230         ( 407312.6, 3740721.7,      17.1,      17.1,       2.0);         ( 407365.6,
            3740769.2,      17.7,      17.7,       2.0);
231         ( 407462.2, 3740703.7,      18.3,      18.3,       2.0);         ( 407432.1,
            3740769.9,      18.0,      18.0,       2.0);
232         ( 407470.1, 3740781.3,      18.4,      18.4,       2.0);         ( 407542.4,
            3740786.3,      19.0,      19.0,       2.0);
233         ( 407549.8, 3740722.7,      19.0,      19.0,       2.0);         ( 407600.2,
            3740718.5,      19.1,      19.1,       2.0);
234         ( 407625.8, 3740721.4,      19.4,      19.4,       2.0);         ( 407594.9,
            3740777.1,      19.0,      19.0,       2.0);
235         ( 407632.6, 3740776.5,      19.5,      19.5,       2.0);         ( 407648.5,
            3740721.1,      19.7,      19.7,       2.0);
236         ( 407696.0, 3740777.6,      20.3,      20.3,       2.0);         ( 407734.2,
            3740777.3,      20.7,      20.7,       2.0);
237         ( 407687.5, 3740721.1,      20.0,      20.0,       2.0);         ( 407708.6,
            3740721.9,      20.1,      20.1,       2.0);
238         ( 407747.2, 3740719.3,      20.2,      20.2,       2.0);         ( 407826.9,
            3740725.1,      20.0,      20.0,       2.0);
239         ( 407834.0, 3740775.2,      20.0,      20.0,       2.0);         ( 407890.2,
            3740776.0,      20.0,      20.0,       2.0);
240         ( 408036.6, 3740709.8,      19.2,      19.2,       2.0);         ( 407940.1,
            3740773.1,      20.0,      20.0,       2.0);
241         ( 408001.0, 3740769.9,      19.7,      19.7,       2.0);         ( 408098.9,
            3740786.0,      19.0,      19.0,       2.0);
242         ( 408037.5, 3740766.8,      19.2,      19.2,       2.0);         ( 408143.3,
            3740705.8,      19.0,      19.0,       2.0);
243         ( 408047.5, 3740685.0,      19.1,      19.1,       2.0);         ( 408047.7,
            3740646.4,      19.0,      19.0,       2.0);
244         ( 408114.8, 3740578.4,      19.0,      19.0,       2.0);         ( 408044.0,
            3740580.2,      19.0,      19.0,       2.0);
245         ( 408003.4, 3740456.2,      19.0,      19.0,       2.0);         ( 408103.4,
            3740460.9,      19.0,      19.0,       2.0);
246         ( 408116.1, 3740373.9,      19.0,      19.0,       2.0);         ( 408040.3,
            3740381.5,      19.1,      19.1,       2.0);
247         ( 408035.6, 3740363.0,      19.1,      19.1,       2.0);         ( 408037.7,
            3740330.1,      19.2,      19.2,       2.0);
248         ( 408108.7, 3740314.5,      19.0,      19.0,       2.0);         ( 408036.1,
            3740271.2,      19.2,      19.2,       2.0);
249         ( 408036.9, 3740242.4,      19.2,      19.2,       2.0);         ( 408101.0,
            3740277.0,      19.0,      19.0,       2.0);
250         ( 408103.9, 3740244.0,      19.0,      19.0,       2.0);         ( 408101.6,
            3740214.5,      19.0,      19.0,       2.0);
251         ( 408100.5, 3740178.1,      19.0,      19.0,       2.0);         ( 408102.1,
            3740150.6,      19.0,      19.0,       2.0);
252         ( 408102.9, 3740094.4,      18.6,      18.6,       2.0);         ( 408036.9,
            3740194.4,      19.1,      19.1,       2.0);
253         ( 408038.2, 3740166.4,      19.0,      19.0,       2.0);         ( 408037.5,
            3740106.0,      19.0,      19.0,       2.0);
254         ( 408037.5, 3740075.7,      19.0,      19.0,       2.0);         ( 408050.6,
            3740016.8,      18.6,      18.6,       2.0);
255         ( 408116.3, 3740034.5,      18.1,      18.1,       2.0);         ( 408099.2,
            3739975.9,      18.1,      18.1,       2.0);
```

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256        ( 408050.9, 3739972.5,      18.1,      18.1,       2.0);         ( 408031.6,
           3739915.5,      17.5,      17.5,       2.0);
257        ( 408098.7, 3739906.5,      17.4,      17.4,       2.0);         ( 408032.2,
           3739895.7,      17.3,      17.3,       2.0);
258        ( 408029.8, 3739877.8,      17.1,      17.1,       2.0);         ( 408033.0,
           3739858.0,      17.0,      17.0,       2.0);
259        ( 408034.5, 3739829.2,      17.0,      17.0,       2.0);         ( 408118.5,
           3739870.1,      17.0,      17.0,       2.0);
260        ( 408107.4, 3739824.5,      17.0,      17.0,       2.0);         ( 408099.2,
           3739716.3,      16.3,      16.3,       2.0);
261        ( 408106.8, 3739752.9,      16.7,      16.7,       2.0);         ( 408100.8,
           3739693.8,      16.1,      16.1,       2.0);
262        ( 408038.2, 3739768.8,      16.9,      16.9,       2.0);         ( 408033.0,
           3739817.3,      17.0,      17.0,       2.0);
263        ( 408036.1, 3739727.9,      16.5,      16.5,       2.0);         ( 408035.9,
           3739675.6,      16.0,      16.0,       2.0);
264    FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
       Const CO\16113-02 Const ***        09/12/24
265     *** AERMET - VERSION  16216 ***
        ***                                                                    ***
        14:10:23
266
                                    PAGE   6
267     *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
268
269                                                *** DISCRETE CARTESIAN RECEPTORS ***
270                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
271                                                          (METERS)
272
273        ( 408038.0, 3739639.5,      16.0,      16.0,       2.0);         ( 408037.7,
           3739589.6,      16.0,      16.0,       2.0);
274        ( 408032.2, 3739560.8,      16.0,      16.0,       2.0);         ( 408102.4,
           3739661.1,      16.0,      16.0,       2.0);
275        ( 408104.5, 3739623.9,      16.0,      16.0,       2.0);         ( 408119.5,
           3739600.2,      16.0,      16.0,       2.0);
276        ( 408111.3, 3739580.4,      16.0,      16.0,       2.0);         ( 408109.8,
           3739556.6,      16.0,      16.0,       2.0);
277        ( 408095.8, 3739518.4,      16.0,      16.0,       2.0);         ( 408049.1,
           3739521.3,      16.0,      16.0,       2.0);
278        ( 408030.3, 3739469.3,      15.7,      15.7,       2.0);         ( 408051.4,
           3739431.8,      15.3,      15.3,       2.0);
279        ( 408048.8, 3739413.1,      15.1,      15.1,       2.0);         ( 408120.0,
           3739487.2,      15.9,      15.9,       2.0);
280        ( 408143.3, 3739399.1,      15.0,      15.0,       2.0);         ( 408113.7,
           3739342.9,      15.0,      15.0,       2.0);
281        ( 408036.1, 3739355.3,      15.0,      15.0,       2.0);         ( 408044.3,
           3739318.9,      15.0,      15.0,       2.0);
282        ( 408094.7, 3739318.3,      15.0,      15.0,       2.0);         ( 408030.6,
           3739231.0,      15.0,      15.0,       2.0);
283        ( 408044.8, 3739253.9,      15.0,      15.0,       2.0);         ( 408042.5,
           3739166.9,      15.0,      15.0,       2.0);
284        ( 408100.5, 3739231.5,      15.0,      15.0,       2.0);         ( 408095.2,
           3739266.6,      15.0,      15.0,       2.0);
285        ( 408153.3, 3739163.2,      15.0,      15.0,       2.0);         ( 408102.4,
           3739115.7,      15.0,      15.0,       2.0);
286        ( 408031.1, 3739101.4,      15.0,      15.0,       2.0);         ( 408024.7,
           3738983.5,      15.0,      15.0,       2.0);
287        ( 408020.6, 3738926.4,      15.0,      15.0,       2.0);         ( 408110.6,
           3738949.7,      15.0,      15.0,       2.0);
288        ( 408105.0, 3738895.1,      15.0,      15.0,       2.0);         ( 408020.2,
           3738908.3,      15.0,      15.0,       2.0);
289        ( 408109.3, 3738857.2,      15.0,      15.0,       2.0);         ( 408042.5,
           3738847.7,      15.0,      15.0,       2.0);
290        ( 408045.0, 3738755.0,      15.0,      15.0,       2.0);         ( 408109.3,
           3738720.3,      15.0,      15.0,       2.0);
291        ( 408050.9, 3738693.4,      15.0,      15.0,       2.0);         ( 408054.4,
```

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      3738592.6,      15.0,      15.0,       2.0);
292   ( 408101.3, 3738540.1,      15.0,      15.0,       2.0);         ( 408053.6,
      3738503.3,      15.0,      15.0,       2.0);
293   ( 408053.4, 3738429.2,      15.0,      15.0,       2.0);         ( 408118.2,
      3738418.1,      15.0,      15.0,       2.0);
294   ( 408052.5, 3738369.7,      15.0,      15.0,       2.0);         ( 408134.3,
      3738381.3,      15.0,      15.0,       2.0);
295   ( 408136.0, 3738350.6,      15.0,      15.0,       2.0);         ( 408044.5,
      3738264.6,      15.0,      15.0,       2.0);
296   ( 408117.3, 3738288.2,      15.0,      15.0,       2.0);         ( 408119.0,
      3738242.1,      15.0,      15.0,       2.0);
297   ( 408043.7, 3738177.3,      15.0,      15.0,       2.0);         ( 408038.7,
      3738205.1,      15.0,      15.0,       2.0);
298   ( 408105.8, 3738177.3,      15.0,      15.0,       2.0);         ( 408100.9,
      3738142.2,      15.0,      15.0,       2.0);
299   ( 408046.2, 3738135.9,      15.0,      15.0,       2.0);         ( 408045.0,
      3738101.6,      15.0,      15.0,       2.0);
300   ( 408047.1, 3738076.0,      15.0,      15.0,       2.0);         ( 408045.2,
      3738042.3,      15.0,      15.0,       2.0);
301   ( 408102.6, 3738105.0,      15.0,      15.0,       2.0);         ( 408103.0,
      3738048.6,      15.0,      15.0,       2.0);
302   ( 408044.8, 3738009.1,      15.0,      15.0,       2.0);         ( 408044.7,
      3737975.6,      15.0,      15.0,       2.0);
303   ( 408043.7, 3737948.9,      15.0,      15.0,       2.0);         ( 408103.0,
      3737978.7,      15.0,      15.0,       2.0);
304   ( 408103.3, 3737940.5,      15.0,      15.0,       2.0);         ( 408048.4,
      3737902.4,      15.0,      15.0,       2.0);
305   ( 408048.4, 3737871.6,      15.0,      15.0,       2.0);         ( 408047.4,
      3737836.5,      15.0,      15.0,       2.0);
306   ( 408047.4, 3737814.3,      15.0,      15.0,       2.0);         ( 408098.3,
      3737909.0,      15.0,      15.0,       2.0);
307   ( 408099.1, 3737881.1,      15.0,      15.0,       2.0);         ( 408099.1,
      3737861.8,      15.0,      15.0,       2.0);
308   ( 408099.6, 3737832.2,      15.0,      15.0,       2.0);         ( 408097.8,
      3737796.1,      15.0,      15.0,       2.0);
309   ( 408099.1, 3737765.7,      15.0,      15.0,       2.0);         ( 408043.9,
      3737693.9,      15.0,      15.0,       2.0);
310   ( 408098.0, 3737736.4,      15.0,      15.0,       2.0);         ( 408113.3,
      3737692.4,      15.0,      15.0,       2.0);
311   ( 408042.6, 3737678.4,      15.0,      15.0,       2.0);         ( 408043.9,
      3737600.0,      15.0,      15.0,       2.0);
312   ( 408110.4, 3737585.2,      15.0,      15.0,       2.0);         ( 408045.0,
      3737547.5,      15.1,      15.1,       2.0);
313   ( 408102.5, 3737553.3,      15.0,      15.0,       2.0);         ( 408048.7,
      3737498.9,      15.4,      15.4,       2.0);
314   ( 408103.3, 3737456.2,      15.0,      15.0,       2.0);         ( 408133.9,
      3737465.7,      15.0,      15.0,       2.0);
315   ( 408119.1, 3737401.3,      15.0,      15.0,       2.0);         ( 408016.5,
      3737427.7,      16.0,      16.0,       2.0);
316   FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
      Const CO\16113-02 Const ***        09/12/24
317    *** AERMET - VERSION  16216 ***
       ***                                                                    ***
       14:10:23
318
                                  PAGE   7
319    *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
320
321                                          *** METEOROLOGICAL DAYS SELECTED FOR
                                             PROCESSING ***
322                                                        (1=YES; 0=NO)
323
324              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
325              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1
```

```
326             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
327             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
328             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
329             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
330             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
                1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
331             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
332
333                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT
                    IS INCLUDED IN THE DATA FILE.
334
335
336
337                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
                                    CATEGORIES ***
338                                                 (METERS/SEC)
339
340                                                1.54,   3.09,   5.14,   8.23,  10.80,
341  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
    Const CO\16113-02 Const ***        09/12/24
342   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:10:23
343
                                  PAGE   8
344   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
345
346                                 *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA
                                    ***
347
348       Surface file:
          ..\KFUL_V9_ADJU\KFUL_v9.SFC
          Met Version:  16216
349       Profile file:
          ..\KFUL_V9_ADJU\KFUL_v9.PFL
350       Surface format:
          FREE

351       Profile format:
          FREE

352       Surface station no.:     3166                Upper air station no.:     3190
353                     Name: UNKNOWN                                  Name:
                        UNKNOWN
354                     Year:   2012                                   Year:   2012
355
356   First 24 hours of scalar data
357   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
358 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
    - - - - - - - - - - - - - - - - - -
359   12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61   1.00
      0.96  322.   10.1  283.8    2.0
360   12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61   1.00
      0.52   13.   10.1  283.1    2.0
361   12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
      0.75   73.   10.1  282.0    2.0
362   12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61   1.00
      0.91   98.   10.1  281.4    2.0
363   12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61   1.00
      0.00    0.   10.1  280.9    2.0
364   12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61   1.00
```

```
 0.55   80.   10.1  280.4    2.0
 12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
 0.69  201.   10.1  280.4    2.0
 12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61   0.54
 0.52   72.   10.1  280.9    2.0
 12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61   0.31
 0.00    0.   10.1  285.9    2.0
 12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61   0.24
 0.79  268.   10.1  289.9    2.0
 12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61   0.21
 0.70  273.   10.1  294.2    2.0
 12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61   0.20
 0.74  230.   10.1  297.5    2.0
 12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61   0.20
 1.20  227.   10.1  300.4    2.0
 12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61   0.21
 1.47  233.   10.1  300.9    2.0
 12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61   0.25
 1.20  233.   10.1  302.0    2.0
 12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61   0.33
 1.91  229.   10.1  298.1    2.0
 12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61   0.60
 1.37  212.   10.1  294.2    2.0
 12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61   1.00
 0.91  190.   10.1  292.0    2.0
 12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.   54.     16.3  0.26   2.61   1.00
 0.70  302.   10.1  289.2    2.0
 12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.   65.     17.0  0.26   2.61   1.00
 0.87  338.   10.1  288.1    2.0
 12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.   91.     20.5  0.26   2.61   1.00
 1.11  304.   10.1  287.0    2.0
 12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.   57.     16.3  0.26   2.61   1.00
 0.75   76.   10.1  285.4    2.0
 12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.   50.     16.7  0.26   2.61   1.00
 0.62  306.   10.1  284.9    2.0
 12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.   62.     16.6  0.26   2.61   1.00
 0.82  318.   10.1  283.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1  322.    0.96   283.8   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***
 14:10:23

                                PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     VOL1        ,

                                          *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
```

404	407197.41	3740354.49	0.14080m	(13010324)	407183.18
	3740347.13		0.14117m	(13010324)	
405	407241.68	3740347.31	0.17409b	(13112024)	407108.00
	3740378.65		0.03489m	(13010324)	
406	407224.06	3740354.48	0.15520b	(13112024)	407152.04
	3740351.83		0.07821m	(13010324)	
407	407136.97	3740351.17	0.06262m	(13010324)	407159.65
	3740296.70		0.15039	(12121624)	
408	407297.73	3740355.14	0.06430b	(13112024)	407311.17
	3740228.02		0.04388m	(13010324)	
409	407298.05	3740416.88	0.03734b	(13112024)	407263.48
	3740425.06		0.03810b	(13112024)	
410	407263.74	3740448.28	0.02844c	(13111924)	407253.45
	3740517.68		0.01504m	(13010324)	
411	407327.60	3740465.69	0.02113b	(13112024)	407319.95
	3740498.68		0.01665b	(13112024)	
412	407304.91	3740552.25	0.01127c	(13111924)	407237.88
	3740641.18		0.00722m	(13010324)	
413	407278.52	3740698.17	0.00548m	(13010324)	407244.48
	3740705.83		0.00539m	(13010324)	
414	407239.73	3740783.14	0.00403m	(13010324)	407288.55
	3740769.42		0.00416m	(13010324)	
415	407312.56	3740721.66	0.00487m	(13010324)	407365.60
	3740769.16		0.00392m	(13010324)	
416	407462.18	3740703.72	0.00473b	(13112024)	407432.10
	3740769.95		0.00370c	(13111924)	
417	407470.10	3740781.30	0.00354b	(13112024)	407542.40
	3740786.31		0.00331b	(13112024)	
418	407549.79	3740722.71	0.00385b	(13112024)	407600.19
	3740718.49		0.00340b	(13112024)	
419	407625.79	3740721.40	0.00314b	(13112024)	407594.92
	3740777.07		0.00310b	(13112024)	
420	407632.65	3740776.55	0.00285b	(13112024)	407648.48
	3740721.13		0.00293b	(13112024)	
421	407695.98	3740777.60	0.00241b	(13112024)	407734.24
	3740777.34		0.00216b	(13112024)	
422	407687.54	3740721.13	0.00259b	(13112024)	407708.65
	3740721.92		0.00247m	(13010324)	
423	407747.18	3740719.28	0.00230m	(13010324)	407826.87
	3740725.09		0.00197m	(13010324)	
424	407833.99	3740775.23	0.00182m	(13010324)	407890.20
	3740776.02		0.00165m	(13010324)	
425	408036.65	3740709.78	0.00139m	(13010324)	407940.07
	3740773.12		0.00153m	(13010324)	
426	408001.03	3740769.95	0.00139m	(13010324)	408098.93
	3740786.05		0.00118m	(13010324)	
427	408037.45	3740766.78	0.00132m	(13010324)	408143.26
	3740705.83		0.00118m	(13010324)	
428	408047.47	3740684.98	0.00139m	(13010324)	408047.74
	3740646.45		0.00143m	(13010324)	
429	408114.76	3740578.37	0.00133m	(13010324)	408044.04
	3740580.22		0.00150m	(13010324)	
430	408003.40	3740456.19	0.00173m	(13010324)	408103.42
	3740460.94		0.00143m	(13010324)	
431	408116.08	3740373.86	0.00142m	(13010324)	408040.35
	3740381.52		0.00165m	(13010324)	
432	408035.60	3740363.04	0.00167m	(13010324)	408037.71
	3740330.06		0.00167m	(13010324)	
433	408108.69	3740314.49	0.00145m	(13010324)	408036.13
	3740271.21		0.00167m	(13010324)	
434	408036.92	3740242.45	0.00166m	(13010324)	408101.04
	3740277.02		0.00147m	(13010324)	
435	408103.94	3740244.03	0.00146m	(13010324)	408101.57
	3740214.48		0.00146m	(13010324)	
436	408100.51	3740178.06	0.00145m	(13010324)	408102.10
	3740150.62		0.00144m	(13010324)	

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          408102.89   3740094.41        0.00141m (13010324)                408036.92
          3740194.42        0.00165m (13010324)
          408038.24   3740166.45        0.00163m (13010324)                408037.45
          3740106.02        0.00160m (13010324)
          408037.45   3740075.68        0.00157m (13010324)                408050.64
          3740016.83        0.00148m (13010324)
          408116.35   3740034.51        0.00134m (13010324)                408099.19
          3739975.93        0.00133m (13010324)
          408050.90   3739972.50        0.00144m (13010324)                408031.64
          3739915.50        0.00143m (13010324)
          408098.67   3739906.53        0.00127m (13010324)                408032.17
          3739895.71        0.00141m (13010324)
          408029.79   3739877.76        0.00139m (13010324)                408032.96
          3739857.97        0.00136m (13010324)
 FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
Const CO\16113-02 Const ***        09/12/24
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***
 14:10:23

                                PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     VOL1        ,

                                             *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - -
          408034.54   3739829.21        0.00132m (13010324)                408118.46
          3739870.11        0.00120m (13010324)
          408107.37   3739824.46        0.00118m (13010324)                408099.19
          3739716.27        0.00109m (13010324)
          408106.85   3739752.95        0.00112m (13010324)                408100.78
          3739693.84        0.00107m (13010324)
          408038.24   3739768.78        0.00125m (13010324)                408032.96
          3739817.34        0.00131m (13010324)
          408036.13   3739727.88        0.00120m (13010324)                408035.86
          3739675.63        0.00114m (13010324)
          408037.97   3739639.48        0.00110m (13010324)                408037.71
          3739589.61        0.00105m (13010324)
          408032.17   3739560.84        0.00102m (13010324)                408102.36
          3739661.12        0.00104m (13010324)
          408104.47   3739623.91        0.00100m (13010324)                408119.51
          3739600.16        0.00096m (13010324)
          408111.33   3739580.37        0.00095m (13010324)                408109.75
          3739556.62        0.00093m (13010324)
          408095.76   3739518.36        0.00091m (13010324)                408049.06
          3739521.26        0.00096m (13010324)
          408030.32   3739469.28        0.00093m (13010324)                408051.43
          3739431.80        0.00088m (13010324)
          408048.79   3739413.07        0.00087m (13010324)                408120.04
          3739487.22        0.00087m (13010324)
          408143.26   3739399.08        0.00078m (13010324)                408113.71
          3739342.88        0.00076m (13010324)
          408036.13   3739355.28        0.00083m (13010324)                408044.31
          3739318.86        0.00079m (13010324)
          408094.71   3739318.34        0.00076m (13010324)                408030.58
          3739230.99        0.00073m (13010324)
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473          408044.83   3739253.95        0.00074m (13010324)                408042.46
             3739166.87        0.00068m (13010324)
474          408100.51   3739231.52        0.00069m (13010324)                408095.24
             3739266.61        0.00072m (13010324)
475          408153.29   3739163.17        0.00063m (13010324)                408102.36
             3739115.67        0.00062m (13010324)
476          408031.11   3739101.42        0.00065m (13010324)                408024.67
             3738983.53        0.00058m (13010324)
477          408020.63   3738926.41        0.00055m (13010324)                408110.61
             3738949.66        0.00054m (13010324)
478          408105.05   3738895.07        0.00051m (13010324)                408020.24
             3738908.31        0.00054m (13010324)
479          408109.28   3738857.21        0.00050m (13010324)                408042.54
             3738847.68        0.00051m (13010324)
480          408045.02   3738755.01        0.00047m (13010324)                408109.28
             3738720.31        0.00044m (13010324)
481          408050.93   3738693.43        0.00044m (13010324)                408054.37
             3738592.56        0.00041m (13010324)
482          408101.27   3738540.13        0.00039m (13010324)                408053.60
             3738503.33        0.00038m (13010324)
483          408053.41   3738429.16        0.00036m (13010324)                408118.24
             3738418.10        0.00035m (13010324)
484          408052.46   3738369.67        0.00035m (13010324)                408134.26
             3738381.30        0.00034m (13010324)
485          408135.97   3738350.60        0.00033m (13010324)                408044.45
             3738264.61        0.00032m (13010324)
486          408117.29   3738288.25        0.00032m (13010324)                408119.00
             3738242.11        0.00031m (13010324)
487          408043.69   3738177.28        0.00030m (13010324)                408038.73
             3738205.12        0.00031m (13010324)
488          408105.85   3738177.28        0.00030m (13010324)                408100.89
             3738142.20        0.00029m (13010324)
489          408046.17   3738135.91        0.00029m (13010324)                408045.02
             3738101.59        0.00029m (13010324)
490          408047.12   3738076.04        0.00028m (13010324)                408045.21
             3738042.29        0.00028m (13010324)
491          408102.61   3738105.02        0.00028m (13010324)                408102.99
             3738048.58        0.00027m (13010324)
492          408044.83   3738009.11        0.00027m (13010324)                408044.72
             3737975.56        0.00027m (13010324)
493          408043.67   3737948.90        0.00026m (13010324)                408103.05
             3737978.72        0.00026m (13010324)
494          408103.31   3737940.46        0.00026m (13010324)                408048.42
             3737902.45        0.00025m (13010324)
495          408048.42   3737871.57        0.00025m (13010324)                408047.36
             3737836.47        0.00024m (13010324)
496          408047.36   3737814.30        0.00024m (13010324)                408098.30
             3737909.05        0.00025m (13010324)
497          408099.09   3737881.07        0.00025m (13010324)                408099.09
             3737861.81        0.00024m (13010324)
498  FF *** AERMOD - VERSION 23132  ***   *** C:\Users\atamase\Desktop\HRAs\16113\16113-02
     Const CO\16113-02 Const ***        09/12/24
499   *** AERMET - VERSION  16216 ***
      ***                                                                    ***
      14:10:23
500
                                  PAGE  11
501   *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
502
503                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES
                                  FOR SOURCE GROUP:  ALL      ***
504                                   INCLUDING SOURCE(S):     VOL1        ,
505
506                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
507
508                                         ** CONC OF PM_2.5   IN
```

509
510 X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
511 - - -

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of         2285 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1588 Calm Hours Identified

A Total of          697 Missing Hours Identified (  1.59 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186      64       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold
used           0.50
ME W187      64       MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

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