Majestic Freeway Business Center (Building 17)

(PPT220009)

AIR QUALITY IMPACT ANALYSIS

COUNTY OF RIVERSIDE

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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)*
2020-2045 RTP/SCS	*2020-2045 Regional Transportation Plan/Sustainable Communities Strategy*
AB 2595	California Clean Air Act
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
CAP	Climate Action Plan
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	*2019 CEQA Statute and Guidelines*
CH_2O	Formaldehyde
CO	Carbon Monoxide
COH	Coefficient of Haze
COHb	Carboxyhemoglobin

County	County of Riverside
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
EV	Electric Vehicle
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
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
MHDT	Medium-Heavy-Duty Trucks
MICR	Maximum Individual Cancer Risk
MM	Mitigation Measures
mph	Miles Per Hour
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
Pb	Lead
PM	Particulate Matter
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	Majestic Freeway Business Center (Building 17)
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
sf	Square Feet
SIPs	State Implementation Plans
SO_2	Sulfur Dioxide
SO_4	Sulfates
SO_X	Sulfur Oxides
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
Title 24	California Building Code
TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
UFP	Ultrafine Particles
URBEMIS	URBan EMISsions
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
vph	Vehicles Per Hour

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Majestic Freeway Business Center (Building 17) Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines* (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	*Less Than Significant*	*n/a*
Localized Construction Emissions	3.7	*Less Than Significant*	*n/a*
Regional Operational Emissions	3.5	*Less Than Significant*	*n/a*
Localized Operational Emissions	3.7	*Less Than Significant*	*n/a*
CO “Hot Spot” Analysis	3.9	*Less Than Significant*	*n/a*
Air Quality Management Plan	3.10	*Less Than Significant*	*n/a*
Sensitive Receptors	3.11	*Less Than Significant*	*n/a*
Odors	3.12	*Less Than Significant*	*n/a*
Cumulative Impacts	3.13	*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 are currently applicable during construction activity for this Project are described below.

SCAQMD RULE 402

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

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

SCAQMD RULE 403

This rule is intended to reduce the amount of particulate matter (PM) entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities. More specifically, Rule 403 would require watering disturbed surfaces three times per day during grading activities.

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

SCAQMD RULE 1113

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

SCAQMD RULE 1301

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

SCAQMD RULE 1401

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

SCAQMD RULE 2305

Owners and operators associated with warehouses 100,000 square feet (sf) or larger are required to directly reduce nitrogen oxides (NO_X) and particulate matter emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities.

Although the Project would comply with the above regulatory requirements, it should be noted that there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod). The two most pertinent regulatory requirements that could be modeled, are Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). Because they are required by law, credit for Rule 403 and Rule 1113 have been taken in the analysis.

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1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Majestic Freeway Business Center (Building 17) (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 SITE LOCATION

The proposed Project is located on the northeast corner of Harvill Avenue and America's Tire Drive in the County of Riverside, as shown on Exhibit 1-A.

1.2 PROJECT DESCRIPTION

A preliminary site plan for the proposed Project is shown on Exhibit 1-B. The Project is proposed to consist of the development of a 268,955-sf high-cube short-term/transload warehouse building. The anticipated Project opening year is 2025.

EXHIBIT 1-A: LOCATION MAP

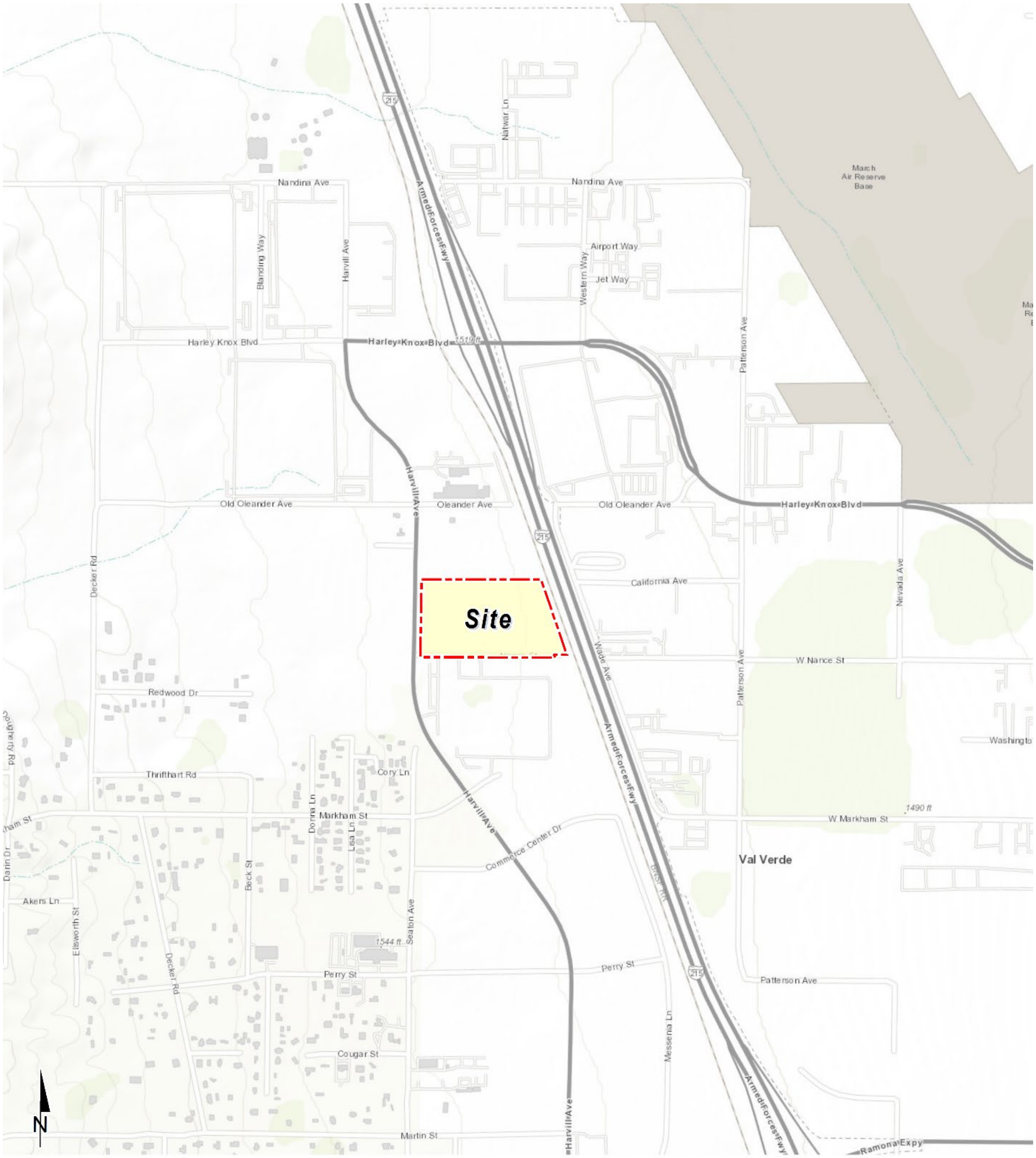
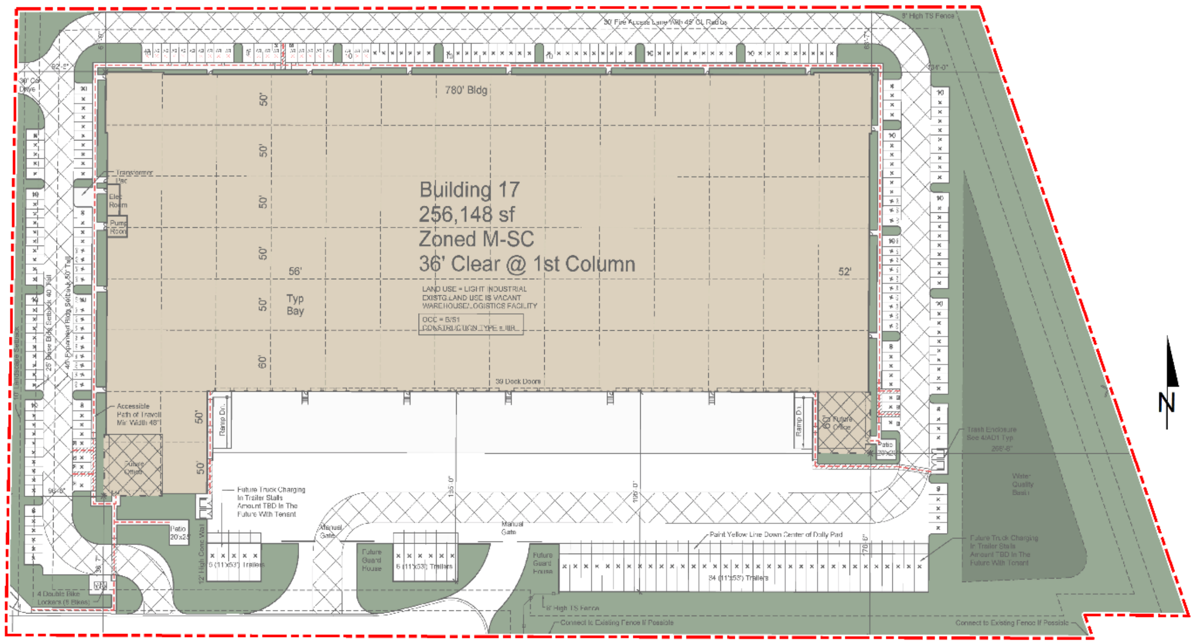


EXHIBIT 1-B: SITE PLAN



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2 AIR QUALITY SETTING

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

2.1 SOUTH COAST AIR BASIN

The Project site is located in the South Coast Air Basin (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 the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and the San Diego Air Basin to the south.

2.2 REGIONAL CLIMATE

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

The annual average temperatures throughout the SCAB vary from the low to 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 percent (%) along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

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

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

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

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

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

2.3 WIND PATTERNS AND PROJECT LOCATION

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

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

2.4 CRITERIA POLLUTANTS

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

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
Carbon Monoxide (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 include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O_2 deficiency) as seen at high altitudes.
Sulfur Dioxide (SO_2)	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant	Coal or oil burning power plants and industries,	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some

Criteria Pollutant	Description	Sources	Health Effects
	mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms SO_4. Collectively, these pollutants are referred to as sulfur oxides (SO_X).	refineries, diesel engines	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 pollutant alone is the predominant factor.
Oxides of Nitrogen (NO_X)	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with O_2. Their lifespan in the atmosphere ranges from	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is

Criteria Pollutant	Description	Sources	Health Effects
	one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO_X is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	equipment and residential heating.	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.
Ozone (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 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.	Formed when reactive organic gases (ROG) and NO_X react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O_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

Criteria Pollutant	Description	Sources	Health Effects
		storage and pesticides.	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 live 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.
Particulate Matter (PM)	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 reduce 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	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	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

Criteria Pollutant	Description	Sources	Health Effects
	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.	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).	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 $PM_{2.5}$.
Volatile Organic Compounds (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	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	Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.

Criteria Pollutant	Description	Sources	Health Effects
	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) interchangeably.	compounds while you are using them, and, to some degree, when they are stored.	
Reactive Organic Gases (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) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure. 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

Criteria Pollutant	Description	Sources	Health Effects
	generate a quantifiable amount of Pb emissions.		stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (6).	Odors can come from many sources including animals, human activities, industry, nature, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

2.5 EXISTING AIR QUALITY

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

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

TABLE 2-2: 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 ...

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

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ 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 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (9). On January 5, 2021, CARB posted the 2020 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (10). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

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

Criteria Pollutant	State Designation	Federal Designation
O_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[1]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = The national 1-hour O_3 standard was revoked effective June 15, 2005.

2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents about the air quality conditions. The Project site is located within the Perris Valley area (SRA 24). The Perris Valley monitoring station is located approximately 4.4 miles south of the Project site and reports air quality statistics for O_3 and PM_{10}. As the Perris Valley monitoring station does not provide data for CO, NO_2, or $PM_{2.5}$, the next nearest monitoring stations will be utilized. Data for CO and NO_2 was obtained from the Elsinore Valley monitoring station, located in SRA 25, approximately 12.5 miles southwest of the Project site. The nearest station for $PM_{2.5}$ data was obtained from the Metropolitan Riverside County monitoring station which is located approximately 13.4 miles northwest of the Project site in SRA 23. It should be noted that data from Elsinore Valley and Metropolitan Riverside County monitoring stations were utilized in lieu of the Perris Valley monitoring station only in instances where data was not available.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to

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

be representative of the local air quality at the Project site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2018 through 2020 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.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2018-2020

Pollutant	Standard	Year		
		2018	2019	2020
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.117	0.118	0.125
Maximum Federal 8-Hour Concentration (ppm)		0.103	0.095	0.106
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	31	26	34
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	67	64	74
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.1	1.6	0.9
Maximum Federal 8-Hour Concentration	> 20 ppm	0.8	0.7	0.7
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.041	0.038	0.044
Annual Federal Standard Design Value		0.009	0.007	0.007
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	64	97	77
Annual Federal Arithmetic Mean ($\mu g/m^3$)		29.7	25.3	35.9
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 $\mu g/m^3$	3	4	6
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	50.70	46.70	41.00
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	12.41	11.13	12.63
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	2	4	4

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 will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (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 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_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 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 recent approved update consisting of the 2022 California Green Building Code Standards that will be 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 plan check submittals are made. These require, among other items (18):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).

- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty electric vehicle supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
  - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
  - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
  - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
  - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).
- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).

- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 AQMP

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

2.9 REGIONAL AIR QUALITY IMPROVEMENT

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

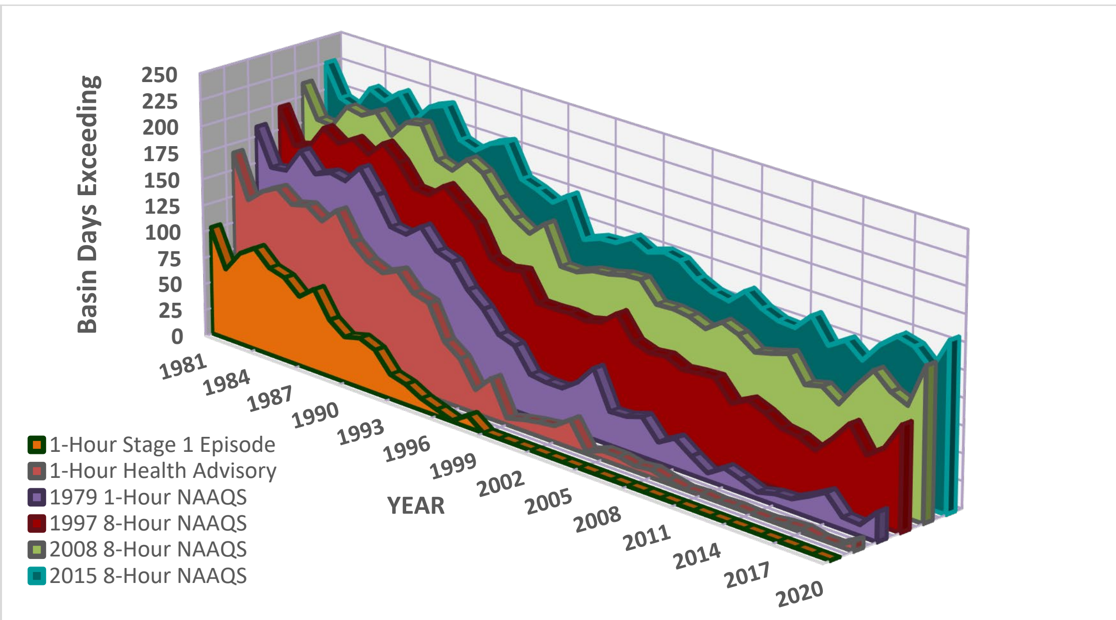
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout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

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's 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 2020 (21). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled

(VMT) in the SCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O_3 contour maps show that the number of days exceeding the 8-hour NAAQS has generally decreased between 1980 and 2020. For 2020, there was an overall decrease in exceedance days compared with the 1980 period. However, as shown on Table 2-5, O_3 levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding, O_3 levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70's (22).

TABLE 2-5: SCAB O_3 TREND

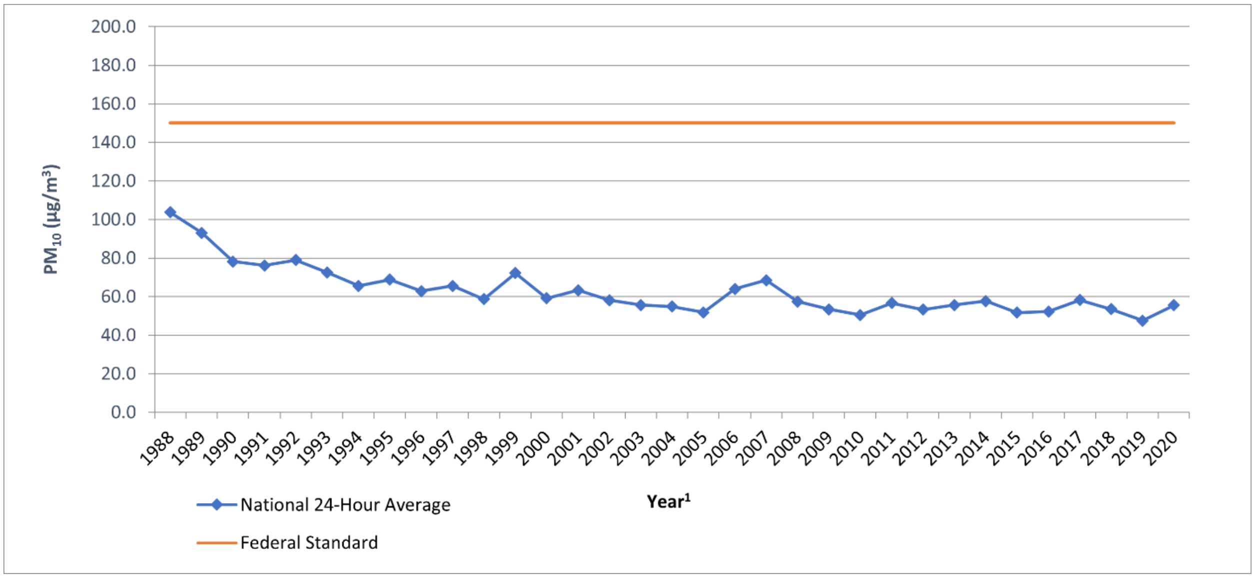


Source: 2020 SCAQMD, Historical O_3 Air Quality Trends (1976-2020)

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 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 46%, from 103.7 microgram per cubic meter (μg/m³) in 1988 to 55.5 μg/m³ in 2020 (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 64%, from 93.9 μg/m³ in 1989 to 33.9 μg/m³ in 2020 (23). Although data in the late 1990's 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.

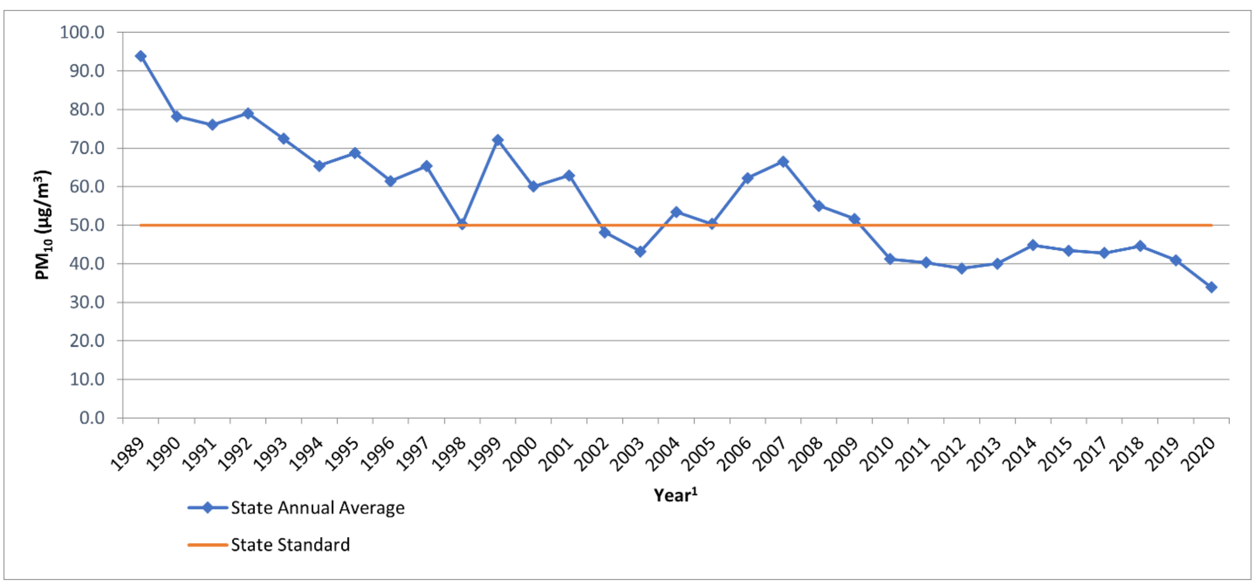
TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)

[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 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]

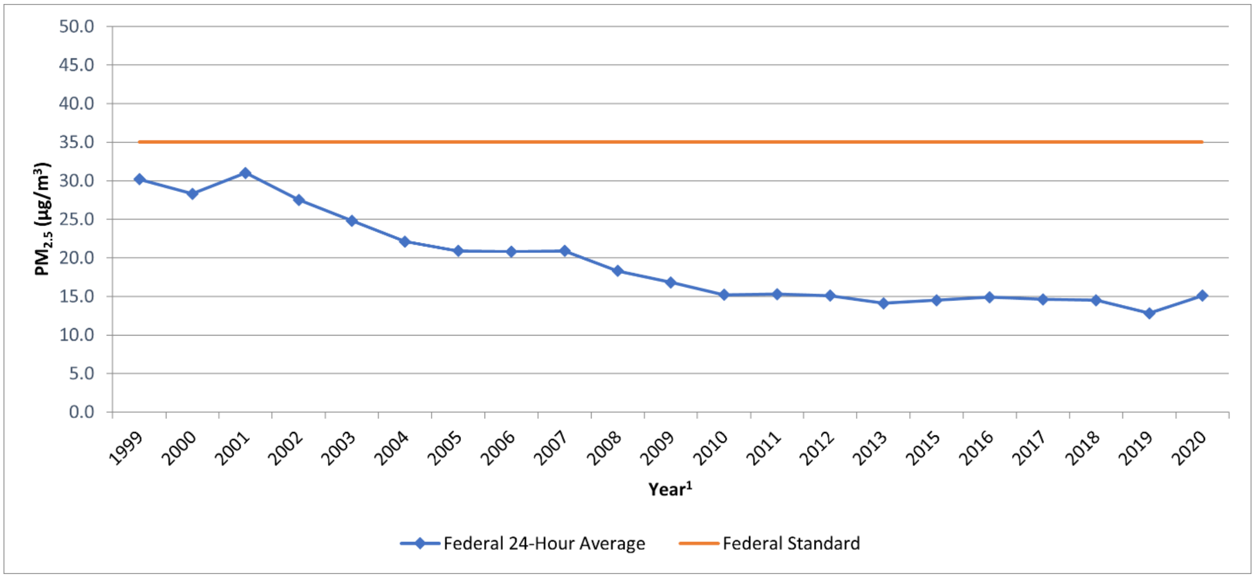


Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)

[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 2-8 and 2-9 shows the most recent 24-hour average $PM_{2.5}$ concentrations in the SCAB from 1999 through 2020. Overall, the national and state annual average concentrations have decreased by almost 50% and 31% respectively (23). It should be noted that the SCAB is currently designated as nonattainment for the state and federal $PM_{2.5}$ standards.

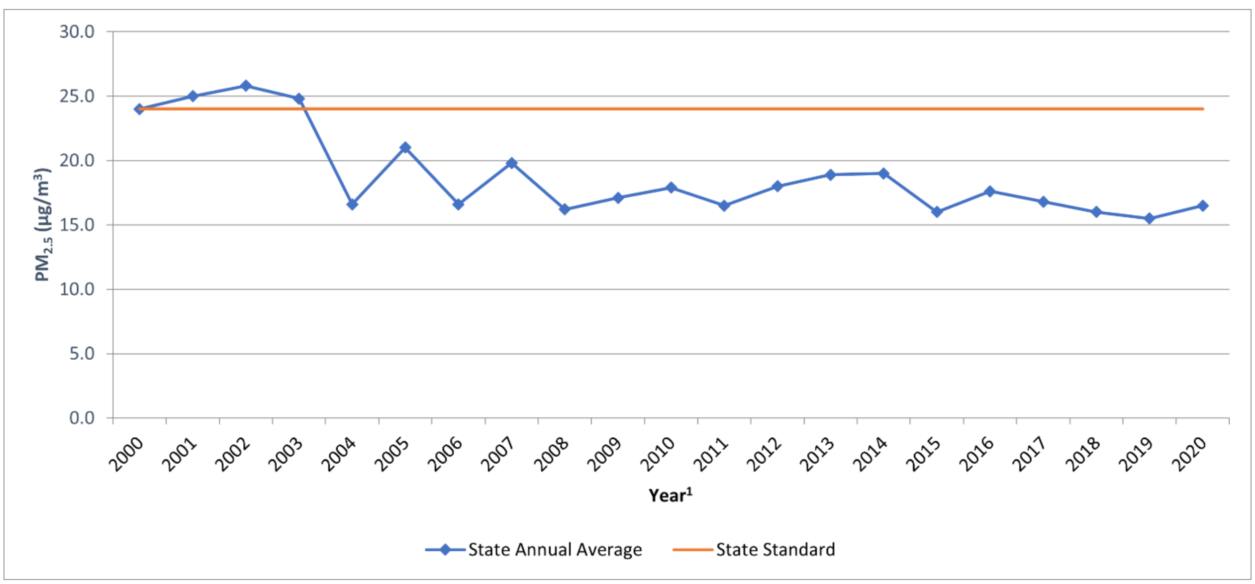
TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)

[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 2-9: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)

[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 $PM_{2.5}$.

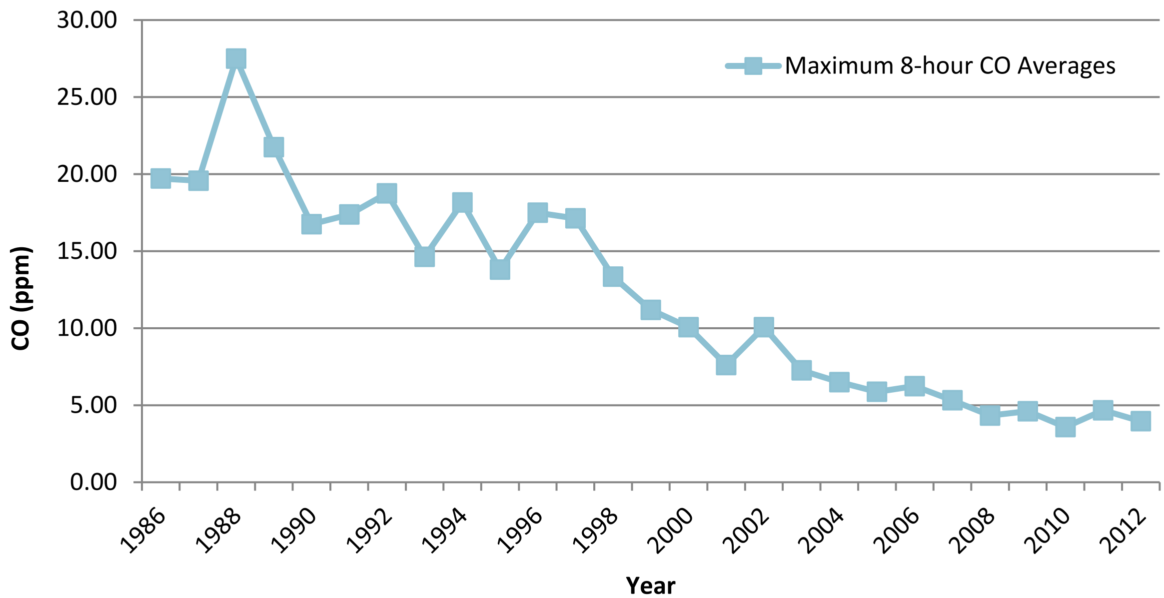
The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of the disrupted 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).

The draft 2022 AQMP has been prepared by SCAQMD to continue to evaluate current integrated strategies and control measures to meet the NAAQS, particularly the EPA’s strengthened ozone standard. These approaches include the use of 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 draft 2022 AQMP was released in August 2022 and public comment closed on October 18, 2022. The SCAQMD Governing Board adopted the draft 2022 AQMP at its December 2, 2022, meeting. The draft 2022 AQMP requires CARB’s adoption before submittal for U.S. EPA’s final approval, which is expected to occur sometime in 2023.

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

TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND[1]

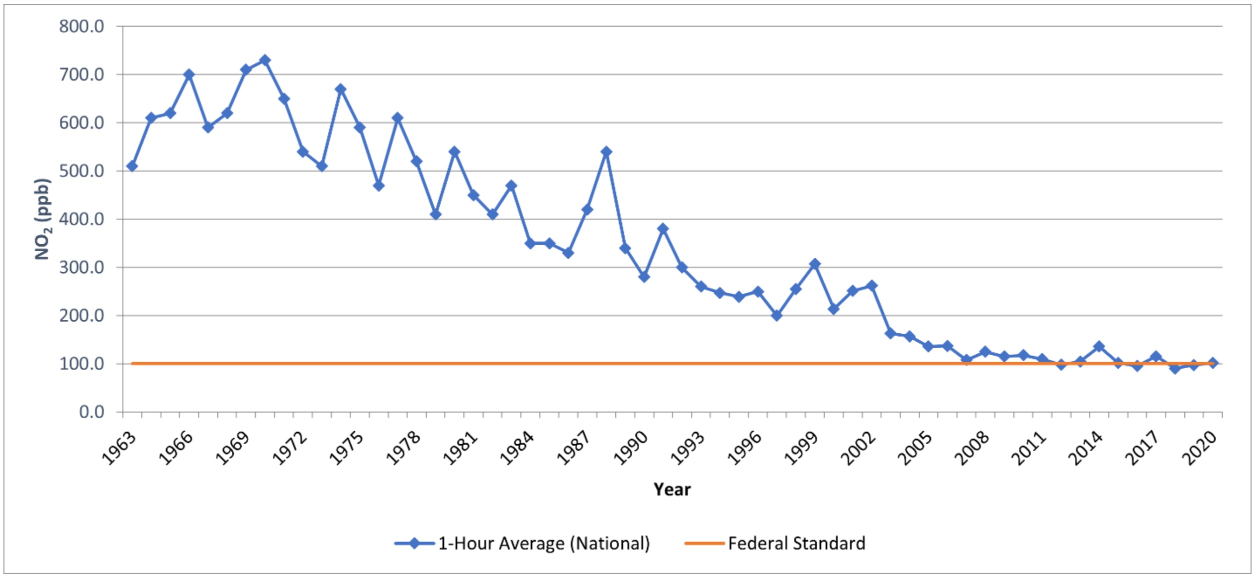


Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)
[1] The most recent year where 8-hour concentration data is available is 2012.

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 required by 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 District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

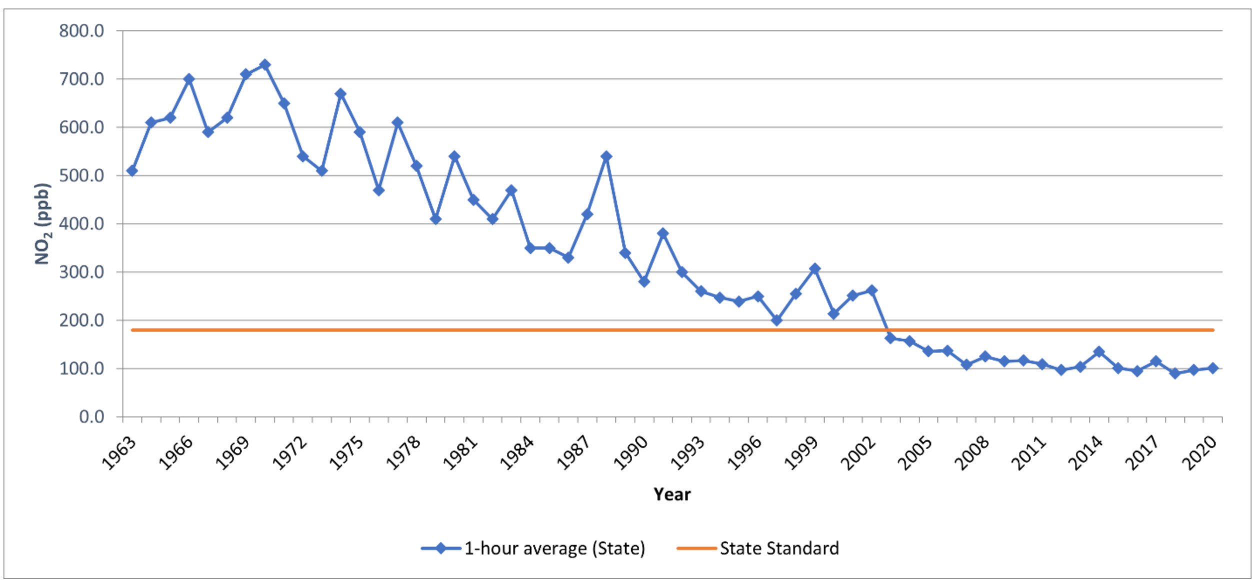
The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (23). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2020 is approximately 80% lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard 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 SCAQMD. 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 SCAQMD into attainment of the state annual average standard.

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD)



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

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



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

2.9.1 TOXIC AIR CONTAMINANTS (TAC) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (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)[2]. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

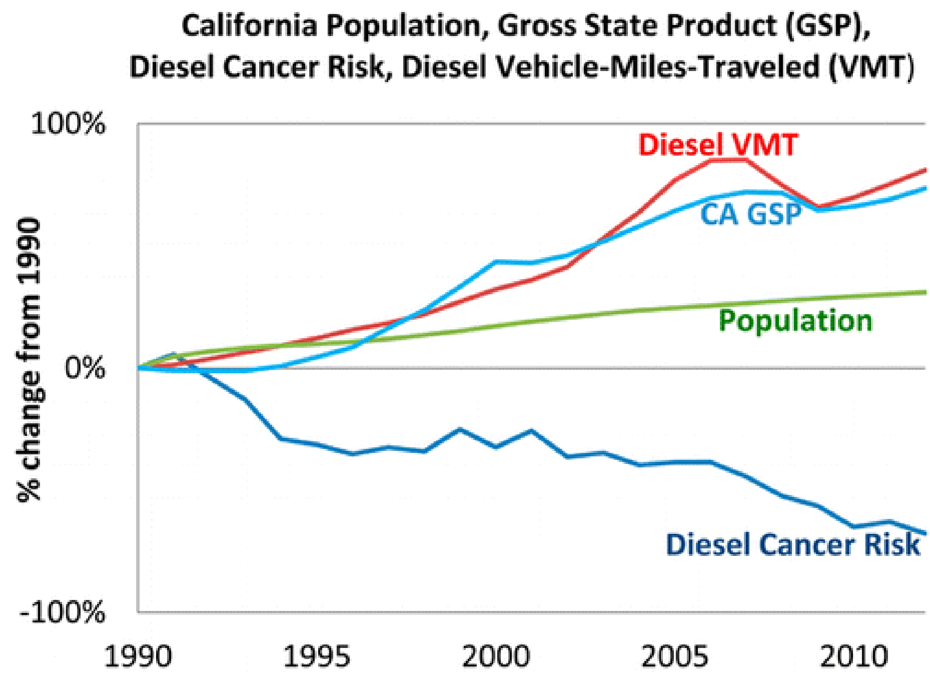
MOBILE SOURCE TACS

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

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

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

EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND



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 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 293 in one million for the area containing the Project site. DPM is included in this cancer risk along with all other TAC sources. As in previous MATES iterations, DPM is the largest contributor to overall air toxics cancer risk. However, the average levels of DPM in MATES V are 53% lower at the 10 monitoring sites compared to MATES IV. Cumulative Project generated TACs are limited to DPM.

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3 PROJECT AIR QUALITY IMPACT

3.1 INTRODUCTION

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

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *CEQA Guidelines* (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

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

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (35). The SCAQMD's *CEQA Air Quality Significance Thresholds* (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Regional Construction Threshold	Regional Operational Thresholds
NO_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

3.3 MODELS EMPLOYED TO ANALYZE AIR QUALITY

3.3.1 CALEEMOD

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

In May 2022 the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of CalEEMod version 2022.1. 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 mitigation measures (36). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 4.1 through 4.3.

3.4 CONSTRUCTION EMISSIONS

3.4.1 CONSTRUCTION ACTIVITIES

Construction activities associated with the Project would 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:

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

GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. The Project will require 54,271 cubic yards of cut and 209,247 cubic yards of fill, resulting in a total of 154,976 cubic yards of import.

ON-ROAD TRIPS

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

TABLE 3-2: CONSTRUCTION TRIP ASSUMPTIONS

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Site Preparation	18	5	0
Grading	20	5	646
Building Construction	113	34	0
Paving	15	0	0
Architectural Coating	23	0	0

3.4.2 CONSTRUCTION DURATION

For purposes of analysis, construction of Project is expected to commence in December 2024 and would last through December 2025. The construction schedule utilized in the analysis, shown in Table 3-3, 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[3]. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1).

TABLE 3-3: CONSTRUCTION DURATION

Construction Activity	Start Date	End Date	Days
Site Preparation	12/03/2024	01/13/2025	30
Grading	01/14/2025	02/24/2025	30
Building Construction	02/25/2025	12/15/2025	210
Paving	11/18/2025	12/15/2025	20
Architectural Coating	10/21/2025	12/15/2025	40

3.4.3 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 3-4 would 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 County Code. In accordance with the County of Riverside Good Neighbor Policy for Logistics and Warehouse/Distribution uses, it was assumed that equipment rated 50 or less horsepower would

[3] As shown in the CalEEMod User's Guide Version 2022.1, Section 4.3 "Off-Road Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

meet at least CARB Tier 3 emissions standards, and equipment rated more than 50 horsepower would meet at least CARB Tier 4 Interim emissions standards.

TABLE 3-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Activity	Equipment[1]	Amount	Hours Per Day
Site Preparation	Rubber Tired Dozers	3	8
	Crawler Tractors	4	8
Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Crawler Tractors	2	8
Building Construction	Cranes	2	8
	Forklifts	4	8
	Generator Sets	2	8
	Welders	2	8
	Crawler Tractors	4	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

[1] In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes during the site preparation and grading phases of Project construction.

3.4.4 CONSTRUCTION EMISSIONS SUMMARY

IMPACTS WITHOUT MITIGATION

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

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

Year	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
2024	1.22	18.00	35.90	0.05	2.06	0.71
Winter						
2024	0.77	16.00	31.20	0.05	6.05	2.86
2025	43.10	71.80	49.70	0.36	15.80	5.45
Maximum Daily Emissions	**43.10**	**71.80**	**49.70**	**0.36**	**15.80**	**5.45**
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.

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the Project would 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:

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

3.5.1 AREA SOURCE EMISSIONS

ARCHITECTURAL COATINGS

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

CONSUMER PRODUCTS

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

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.5.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

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

3.5.3 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Majestic Freeway Business Center (Building 17) (PPT220009) Traffic Analysis* were utilized in this analysis (37).

APPROACH FOR ANALYSIS OF THE PROJECT

In order to determine emissions from passenger car vehicles, CalEEMod defaults for trip length and trip purpose were utilized (38). Default vehicle trip lengths for primary trips will be populated using data from the local metropolitan planning organizations/Regional Transportation Planning Agencies (MPO/RTPA). Trip type percentages and trip lengths provided by MPO/RTPAs truncate data at their demonstrative borders.

For the proposed industrial uses, it is important to note that although the *Majestic Freeway Business Center (Building 17) (PPT220009) Traffic Analysis* does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[4] & LDT2[5]), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix in Table 3-6 was utilized.

[4] 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.

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

TABLE 3-6: PASSENGER CAR FLEET MIX

Land Use	% Vehicle Type				
	LDA	LDT1	LDT2	MDV	MCY
High-Cube Short-Term Storage/Transload	53.97%	4.25%	21.88%	17.36%	2.55%

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 SCAQMD recommended truck trip length 15.3 miles for 2-axle (LHDT1, LHDT2) trucks, 14.2 miles 3-axle (MHDT) trucks and 40 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from the *Majestic Freeway Business Center (Building 17) (PPT220009) Traffic Analysis*. The trip length function for the high-cube short-term storage/transload use has been calculated to 30.66 miles and an assumption of 100% primary trips. This trip length assumption is higher than the CalEEMod defaults for trucks. In order to be consistent with the *Majestic Freeway Business Center (Building 17) (PPT220009) Traffic Analysis*, 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 *Majestic Freeway Business Center (Building 17) (PPT220009) Traffic Analysis*. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[6] & LHDT2 [7])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the following fleet mix was utilized in this analysis:

TABLE 3-7: TRUCK FLEET MIX

Land Use	% Vehicle Type			
	LHDT1	LHDT2	MHDT	HHDT
High-Cube Short-Term Storage/Transload	12.98%	3.69%	20.00%	63.33%

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

FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

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

3.5.4 ON-SITE CARGO HANDLING EQUIPMENT SOURCE EMISSIONS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. In accordance with the County of Riverside Good Neighbor Policy for Logistics and Warehouse/Distribution uses it is assumed that all on-site cargo handling equipment would be electrically powered.

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

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

3.5.5 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 3-8. Detailed operation model outputs for the Project are presented in Appendix 3.2. As shown on Table 3-8, the Project's daily regional emissions from on-going operations would not exceed the thresholds of significance for emissions of any criteria pollutant.

TABLE 3-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	1.48	4.78	19.90	0.07	2.10	0.45
Area Source	8.40	0.10	11.70	0.00	0.02	0.02
Total Maximum Daily Emissions	**9.88**	**4.88**	**31.60**	**0.07**	**2.12**	**0.47**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**
Winter						
Mobile Source	1.42	5.06	16.40	0.07	2.10	0.45
Area Source	6.48	0.00	0.00	0.00	0.00	0.00
Total Maximum Daily Emissions	**7.90**	**5.06**	**16.40**	**0.07**	**2.10**	**0.45**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod operational-source emissions are presented in Appendix 3.2.

3.6 LOCALIZED SIGNIFICANCE

BACKGROUND ON LST DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology). The SCAQMD has established that localized 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[8]. LSTs represent the maximum emissions from a project that would not cause

[8] 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

or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

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

APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate SRA for the LST analysis is Perris Valley (SRA 24). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- Identify the maximum daily on-site emissions that would occur during construction activity:
  - The maximum daily on-site emissions could be based on information provided by the Project Applicant; or
  - The SCAQMD's *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds* and CalEEMod User's Guide *Appendix A: Calculation Details for CalEEMod* can be used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod (40) (41).
- If the total acreage disturbed is less than or equal to 5 acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a Project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in lbs/day that can be compared to CalEEMod outputs.
- If the total acreage disturbed is greater than 5 acres per day, then LST impacts may still be conservatively evaluated using the LST look-up tables for a 5-acre disturbance area. Use of the 5-acre disturbance area thresholds can be used to show that even if the daily emissions from all construction activity were emitted within a 5-acre area, and therefore concentrated over a smaller area which would result in greater site adjacent concentrations, the impacts would still be less than significant if the applicable 5-acre thresholds are utilized.
- The *LST Methodology* presents mass emission rates for each SRA, project sizes of 1, 2, and 5 acres, and nearest receptor distances of 25, 50, 100, 200, and 500 meters. For project sizes between the values given, or with receptors at distances between the given receptors, the methodology uses linear interpolation to determine the thresholds.

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 (42)." 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 3-10). 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 C: Emission Calculation Details for CalEEMod* (40) (43). It 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 3-9, the Project's construction activities could actively disturb approximately 3.5 acres per day during site preparation activities and 4.0 acres per day during grading activities.

TABLE 3-9: MAXIMUM DAILY DISTURBED-ACREAGE

Construction Activity	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Site Preparation	Crawler Tractors	4	0.5	8	2.0
	Rubber Tired Dozers	3	0.5	8	1.5
Total acres disturbed per day during Site Preparation					3.5
Grading	Crawler Tractors	2	0.5	8	1.0
	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
	Scrapers	2	1.0	8	2.0
Total acres disturbed per day during Grading					4.0

Source: Maximum daily disturbed acreage based on equipment list presented in Appendix 3.1.

DISPERSION MODELING

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

SOURCES

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

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

In order to account for equipment exhaust emissions from NO_2, CO, PM_{10}, and $PM_{2.5}$ a release height of 5.0 meters was utilized consistent with SCAQMD's LST guidance.

METEOROLOGICAL DATA AND MODEL OPTIONS

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

RECEPTORS

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

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

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* (42)." 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 3-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 residence at 22980 Peregrine Way, approximately 372 feet northwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R1 is placed at the building façade.

R2: Location R2 represents the existing residence at 22710 Redwood Drive, approximately 1,721 feet west of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R2 is placed at the building façade.

R3: Location R3 represents the existing residence at 22721 Redwood Drive, approximately 1,473 feet southwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R3 is placed at the building façade.

R4: Location R4 represents the existing residence at 18412 Donna Lane, approximately 1,014 feet southwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R4 is placed at the building façade.

R5: Location R5 represents the existing residence at 22948 Markham Street, approximately 856 feet southwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R5 is placed at the building façade.

R6: Location R6 represents the existing residence at 18412 Donna Lane, approximately 718 feet southwest of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R6 is placed at the building façade.

R7: Location R7 represents the existing residence at 18100 California 395, approximately 613 feet east of the Project site. Since there are no private outdoor living areas (backyards) facing the Project site, receptor R7 is placed at the building façade.

R16: Location R16 represents the Exel Worksite facility at 18310 Harvill Avenue, approximately 169 feet south of the Project site.

R19: Location R19 represents the Perris Spanish Seventh Day Adventist Church located at 22905 Alviso Drive, approximately 5,394 feet southwest of the Project site.

EXHIBIT 3-A: RECEPTOR LOCATIONS

CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

Emissions during the peak construction activity will not exceed the SCAQMD's localized significance thresholds at the maximally exposed receptor location, as illustrated on Table 3-10. All other modeled locations in the study area would experience a lesser concentration and consequently a lesser impact. As such, the Project's localized impacts during construction activity would be less than significant. Outputs from the model runs for construction LSTs are provided in Appendix 3.4.

TABLE 3-10: LOCALIZED SIGNIFICANCE SUMMARY PEAK CONSTRUCTION

Peak Construction	**CO**		**NO_2**	**PM_{10}**	**$PM_{2.5}$**
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	0.05	0.02	1.80E-02	0.94	0.45
Background Concentration [A]	1.6	0.8	0.044		
Total Concentration	**1.65**	**0.82**	**0.06**	**0.94**	**0.45**
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in μg/m^3. All others are expressed in ppm.

OPERATIONAL-SOURCE LOCALIZED EMISSIONS

The LST analysis generally includes on-site sources (area, energy, and mobile – are previously discussed in Section 3.5 of this report). However, it should be noted that the CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. As such, to establish a maximum potential impact scenario for analytic purposes, the modeled emissions include all on-site Project-related stationary (area) sources and on-site Project-related mobile emissions. In order to account for on-site mobile emissions, a trip length of 0.7 miles was utilized for both trucks and passenger cars.

Emissions during peak operational activity will not exceed the SCAQMD's localized significance thresholds at the maximally impacted receptor location, as illustrated on Table 3-11. All other modeled locations in the study area would experience a lesser concentration and consequently a lesser impact. As such, the Project's localized impacts during operational activity would be less than significant. Outputs from the model runs for operational LSTs are provided in Appendix 3.4.

TABLE 3-11: LOCALIZED SIGNIFICANCE SUMMARY PEAK OPERATIONS

Peak Construction	CO		NO_2	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	7.19E-03	4.03E-03	2.99E-04	1.03E-02	4.55E-03
Background Concentration [A]	1.6	0.8	0.044		
Total Concentration	**1.61**	**0.80**	**0.04**	**0.01**	**0.00**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.
Notes: PM_{10} and $PM_{2.5}$ concentrations are expressed in μg/m^3. All others are expressed in ppm.

3.7 CO "HOT SPOT" ANALYSIS

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

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-12.

TABLE 3-12: CO MODEL RESULTS

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

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

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

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (*1992 CO Plan*), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (44). In contrast, an adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 0.9 ppm and 0.7 ppm, respectively (data from Elsinore Valley station for 2020). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (45). Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 3-13. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (44). The *2003 AQMP* estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)[9].

TABLE 3-13: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Boulevard/Veteran Avenue	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Boulevard/Highland Avenue	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Boulevard/Century Boulevard	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674

[9] Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

Long Beach Boulevard/Imperial Highway	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

Source: 2003 AQMP

As summarized on Table 3-14 below, the intersection of Interstate 215 (I-215) Northbound (NB) Ramps and Ramona Expressway would have the highest AM and PM traffic volumes of 6,411 vph and 7,334 vph, respectively. As such, total traffic volumes at the intersections considered are less than the traffic volumes identified in the *2003 AQMP*. As such, the Project considered herein along with background and cumulative development would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO "hot spots" are not an environmental impact of concern for the Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-14: PEAK HOUR TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Harvill Avenue/Driveway 5	1,594/1,014	808/1,488	1/4	0/0	2,403/2,507
Harvill Avenue/Cajalco Expressway	999/1,178	689/1374	1,169/1,602	2,423/1,657	5,280/5,810
I-215 SB Ramps/Ramona Expressway	0/0	2,233/2,240	1,155/2,427	2,190/1,882	5,579/6,549
I-215 NB Ramps/Ramona Expressway	1,488/1,041	0/0	2,246/3,422	2,677/2,871	6,411/7,334

SB = Southbound
Source: *Majestic Freeway Business Center (Building 17) Traffic Analysis* (Urban Crossroads, Inc., 2022)

3.8 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 use 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 in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

The draft 2022 AQMP has been prepared by SCAQMD to continue to evaluate current integrated strategies and control measures to meet the NAAQS, particularly the EPA's strengthened ozone standard. These approaches include the use of 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), a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (26). The Project's consistency with the AQMP will be determined using the 2022 AQMP as discussed below.Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (46). These indicators are discussed below:

3.8.1 CONSISTENCY CRITERION NO. 1

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

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

Construction Impacts – Consistency Criterion 1

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.

3.8.2 CONSISTENCY CRITERION NO. 2

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

The *2022 AQMP* demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in County of Riverside 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 Project site is located within an unincorporated portion of the County of Riverside. As per the General Plan, the unincorporated portions of the County are divided into 19 area plans. These area plans provide more detailed land use and policy direction regarding local issues such as land use, circulation, open space, and other topical areas (47). Per the General Plan, the Project site is located within the Mead Valley Area Plan and is designated for Light Industrial uses. The General Plan states that the Light Industrial land use designation is intended for industrial and related uses including warehousing/distribution, assembly and light manufacturing, repair facilities, and supporting retail uses at an allowable Floor Area Ratio (FAR) of 0.25-0.60 (47).

As previously stated, the Project is proposed to consist of the development of a 268,955-sf high-cube short-term/transload warehouse building. As such, the Project's proposed uses are generally consistent with the site's land use and zoning designations.

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

AQMP CONSISTENCY CONCLUSION

The Project would not result in or cause NAAQS or CAAQS violations. Although the Project would not be consistent with the site land use and zoning designations, construction and operational-source impacts would not exceed the applicable SCAQMD regional and localized thresholds. As such, the Project is therefore considered to be consistent with the AQMP.

3.9 TOXIC AIR CONTAMINANTS

CONSTRUCTION AND OPERATIONAL

Based on the results of the *Majestic Freeway Business Center (Building 17) (PPT220009) Health Risk Assessment* (48), emissions generated from the Project during short-term construction and long-term operation will not exceed SCAQMD significance thresholds for cancer and non-cancer health risks. As such, a less than significant impact is expected.

3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

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

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

3.10.1 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 Environmental Impact Report's (EIR) air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

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

Notwithstanding, this AQIA does evaluate the proposed Project's localized impact to air quality for emissions of CO, NO_X, PM_{10}, and $PM_{2.5}$ by comparing the proposed project's on-site emissions to the SCAQMD's applicable LST thresholds. The LST analysis above determined that the Project would not result in emissions exceeding SCAQMD's LSTs. Therefore, the proposed Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO_X, PM_{10}, and $PM_{2.5.}$

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

3.12 Odors

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

- Agricultural uses (livestock and farming)
- Wastewater treatment plants

- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with current solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors and other emissions (such as those leading to odors) associated with construction and operations activities of the proposed Project would be less than significant and no mitigation is required (49).

3.13 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate 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 clearly states (Page D-3):

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

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

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

CONSTRUCTION IMPACTS

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

OPERATIONAL IMPACTS

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

COUNTY OF RIVERSIDE GOOD NEIGHBOR POLICY

The County of Riverside adopted the Good Neighbor Policy for Logistics and Warehouse/Distribution Uses (Policy Number F-3) on November 19, 2019. (51) The goal of this policy is to provide a framework through which large-scale logistics and warehouse projects can be designed and operated in a way that lessens any impacts on surrounding communities and the environment. The policy applies to logistics warehouse projects that include any building larger than 250,000 square feet in size with more than 20 loading bays. As such, the policy would be applicable to the Project.

Specifically, Table 3-15 identifies the following relevant guidelines that have been reviewed for consistency:

TABLE 3-15: GOOD NEIGHBOR POLICY RELEVANT GUIDELINES

Measure		Project Consistency
1.1	An "Air Quality" study shall be prepared in accordance with the Air Quality Management District (AQMD) guidelines which includes both project specific and cumulative impact analysis.	The analysis presented here conforms with applicable analytic guidelines and requirements. The analysis substantiates that all potential air quality impacts, including potential health risk impacts would be less-than-significant.
1.2	A "Health Risk Assessment" shall be prepared when a proposed warehouse/distribution facility is located within 1,000 feet of a sensitive receptor, in accordance with AQMD guidelines.	A health risk assessment has been prepared for the proposed Project in accordance with SCAQMD guidelines and is presented under a separate cover.
2.1	During construction of the warehouse/distribution facility, all heavy-duty haul trucks accessing the site shall have CARB-Compliant 2010 engines or newer approved CARB engine standards.	All heavy-duty haul trucks accessing the Project site during construction will be in compliance with the CARB Truck and Bus regulation, which requires that heavy duty trucks utilize CARB-Compliant 2010 or newer engines by January 1, 2023.
2.2	All diesel fueled off-road construction equipment greater than 50 horsepower, including but not limited to excavators, graders, rubber-tired dozers, and similar "off-road" construction equipment shall be equipped with CARB Tier 4 Compliant engines. If the operator lacks Tier 4 equipment, and it is not available for lease or short-term rental within 50 miles of the project site, Tier 3 or cleaner off-road construction equipment may be utilized subject to County approval.	All diesel-fueled off-road construction equipment rated greater than 50 horsepower will meet CARB Tier 4 standards.
2.3	The maximum daily disturbance area (actively graded area) shall not exceed 10 acres per day. Non-Grading construction activity in areas greater than 10 acres is allowed.	The maximum daily disturbance area will not exceed 10 acres per day during site preparation and grading. It is anticipated that no more than 4.0 acres would be graded per day.
2.7	Appropriate dust control measures that meet the SCAQMD standards shall be implemented for grading and construction activity.	The Project would comply with all applicable dust control measures, including SCAQMD Rules 401, 402, and 403.
2.8	Construction equipment maintenance records and data sheets, which includes equipment design specifications and equipment emission control tier classifications, as well as any other records necessary to verify compliance, shall be kept onsite and furnished to the County upon request.	The Project will maintain records on-site during construction to demonstrate compliance with the above requirements.
2.9	Construction Contractors shall prohibit truck drivers from idling more than five (5) minutes and require operators to turn off engines when not in use, in compliance with the California Air Resources Board regulations.	The Project would be required to comply with statewide anti-idling rules. Compliance with anti-idling rules diminishes the potential for localized emissions concentrations and reduces potential adverse effects at sensitive receptors.

Measure		Project Consistency
3.1	Warehouse/distribution facilities should be generally designed so that truck bays and loading docks are a minimum of 300 feet, measured from the property line of the sensitive receptor to the nearest dock door using a direct straight-line method. This distance may be reduced if the site design includes berms or other similar features to appropriately shield and buffer the sensitive receptors from the active truck operations areas. Other setbacks appropriate to the site's zoning classification shall be incorporated in the design.	As designed, the proposed Project's loading docks would not be located within 300 feet of any nearby sensitive receptors.
3.2	Warehouse/distribution facilities shall be designed to provide adequate on-site parking for commercial trucks and passenger vehicles and on-site queuing for trucks that is away from sensitive receptors. The general queuing and spill-over of trucks onto surrounding public streets shall be prevented. Commercial trucks shall not be parked in the public road right-of-way or nearby residential areas.	The site has been designed such that trucks would not need to queue on streets or elsewhere outside the proposed industrial building they serve. The Project design as approved by the County would act to limit on-site queuing, diminishing the potential for localized emissions concentrations and reduces potential adverse effects at sensitive receptors.
3.11	Warehouse/distribution facilities shall install electrical panels and conduit to facilitate future electrical connections, to eliminate idling of main and auxiliary engines during the loading and unloading process. At all cold storage facilities electrical connections shall be provided to each dock.	Loading docks would be wired for electrical hook-ups, allowing future users to seamlessly integrate electric charging for trucks, when such technology becomes readily available.
4.1	Facility operators shall maintain records of their facility owned and operated fleet equipment and ensure that all diesel-fueled Medium-Heavy Duty Trucks ("MHDT") and Heavy-Heavy Duty ("HHD") trucks with a gross vehicle weight rating greater than 19,500 pounds accessing the site use year CARB compliant 2010 or newer engines. The records should be maintained on-site and be made available for inspection by the County.	The proposed Project will comply with the CARB Truck and Bus regulation, which requires the use of CARB compliant 2010 or newer engines.
4.2	Facility operators shall prohibit truck drivers from idling more than five (5) minutes and require operators to turn off engines when not in use, in compliance with the California Air Resources Board regulations.	The Project would be required to comply with statewide anti-idling rules. Compliance with anti-idling rules diminishes the potential for localized emissions concentrations and reduces potential adverse effects at sensitive receptors.
4.4	Facility operators shall coordinate with CARB and SCAQMD to obtain the latest information about regional air quality concentrations, health risks, and trucking regulations.	The operator of the proposed facility will be required to remain in compliance with applicable air quality, health risk, and trucking regulations.

Measure		Project Consistency
4.5	On-site equipment, such as forklifts, shall be electric with the necessary electrical charging stations provided.	All on-site equipment utilized for the operation of the proposed Project will be electrically powered and charging stations will be provided on-site.
4.6	Facility operators shall establish specific truck routes between the facility and regular destinations, identifying the most direct routes to the nearest highway/freeway and avoid traveling near sensitive receptors.	The operator of the proposed facility will be required to provide this information to drivers accessing the facility.
4.9	A minimum of 5% or as required by the Cal Green Code, whichever is greater of employee parking spaces shall be designated for electric or other alternative fueled vehicles.	As designed, the proposed Project would meet or exceed California Green Building code requirements and provide parking spaces designated for EV charging at a minimum of 5% of the total auto parking stalls.
5.5	Each Facility shall designate a Compliance Officer responsible for implementing the measures described herein and/or in the project conditions of approval and mitigation measures. Contact information should be provided to the County and updated annually, and signs should be posted in visible locations providing the contact information for the Compliance Officer to the surrounding community. These signs shall also identify the website and contact information for the SCAQMD.	A designated Compliance Officer will be appointed for the facility to ensure compliance with these and other applicable requirements and contact information will be provided to the County on an annual basis. Signs will be posted in order to identify the Compliance Officer's contact information, as well as contact information for the SCAQMD.

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4 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Majestic Freeway Business Center (Building 17). 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

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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
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PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
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AB2588 Regulatory Standards – Trinity Consultants • November 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

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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.

Ambient Air Quality Standards

(Updated 5/4/16)

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.

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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:

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

2018
Area Designations for State
Ambient Air Quality Standards
OZONE
N
0 50 100 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
SUTTER BUTTES
Butte
Glenn
Mendocino
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
LAKE COUNTY
Yuba
Placer
LAKE TAHOE
Lake
Sutter
El Dorado
Yolo
Alpine
Sonoma
Napa
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
San Francisco
GREAT BASIN VALLEYS
Alameda
Mariposa
San Mateo
Stanislaus
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
Santa Barbara
San Bernardino
Los Angeles
MOJAVE DESERT
Ventura
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Unclassified
Attainment
Nonattainment-Transitional
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 1

California Ambient Air Quality Standards
Area Designations for Ozone (1)

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				X
Alpine County			X		SACRAMENTO VALLEY AIR BASIN				
Inyo County	X				Colusa and Glenn Counties				X
Mono County	X				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN				X	Sutter Buttes	X			
LAKE TAHOE AIR BASIN				X	Remainder of Sutter County				X
MOJAVE DESERT AIR BASIN	X				Yuba County				X
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			X		San Luis Obispo County	X			
Sierra County			X		Santa Barbara County		X		
Tuolumne County	X				Ventura County	X			
NORTH CENTRAL COAST AIR BASIN		X			SOUTH COAST AIR BASIN	X			
NORTH COAST AIR BASIN				X					

(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


2018
Area Designations for State
Ambient Air Quality Standards
PM10
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
LAKE COUNTY
Nevada
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
Yolo
El Dorado
Alpine
Sonoma
Napa
Sac
Amador
Yosemite NP
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Contra Costa
San Joaquin
Tuolumne
Mono
San Francisco
Alameda
Stanislaus
GREAT BASIN VALLEYS
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
NORTH CENTRAL COAST
Fresno
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
MOJAVE DESERT
Santa Barbara
SOUTH CENTRAL COAST
Ventura
Los Angeles
San Bernardino
SOUTH COAST
Orange
Riverside
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
N
0
50
100
200
Miles
Unclassified
Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 2

California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Del Norte, Sonoma (portion) and Trinity Counties			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin		X	
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			X
- Yosemite National Park	X			Remainder of Air Basin	X		
- Remainder of County		X		SALTON SEA AIR BASIN	X		
Nevada County	X			SAN DIEGO AIR BASIN	X		
Placer County (portion)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
Plumas County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	X		
Tuolumne County		X		SOUTH COAST AIR BASIN	X		

FIGURE 3

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)			X	SAN FRANCISCO BAY AREA AIR BASIN	X		
				SAN JOAQUIN VALLEY AIR BASIN	X		
Remainder of Air Basin		X		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			X
Plumas County				Santa Barbara County		X	
- Portola Valley (2)	X			Ventura County			X
Remainder of Air Basin		X		SOUTH COAST AIR BASIN	X		
NORTH CENTRAL COAST AIR BASIN			X				
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Glenn County			X				
Placer County (portion)			X				
Sacramento County			X				
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

(1) California Code of Regulations, title 17, section 60200(b)

(2) California Code of Regulations, title 17, section 60200(c)

(3) California Code of Regulations, title 17, section 60200(a)

FIGURE 4


2018
Area Designations for State
Ambient Air Quality Standards
CARBON MONOXIDE
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
N
Shasta
Trinity
Lassen
Humboldt
0 50 100 200 Miles
Tehema
SACRAMENTO VALLEY
Plumas
LAKE COUNTY
Mendocino
Butte
Glenn
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Yuba
Placer
LAKE TAHOE
Lake
Sutter
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
Solano
Marin
Calaveras
San Joaquin
Contra Costa
Tuolumne
Mono
SAN FRANCISCO BAY AREA
San Francisco
Text
Alameda
Stanislaus
Mariposa
GREAT BASIN VALLEYS
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
Fresno
Inyo
NORTH CENTRAL COAST
Monterey
Tulare
Kings
San Luis Obispo
Kern
MOJAVE DESERT
Santa Barbara
SOUTH CENTRAL COAST
Ventura
Los Angeles
San Bernardino
Orange
Riverside
SOUTH COAST
Unclassified
Attainment
Air Basin
County
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Source Date:
October 2018
Air Quality Planning and Science Division

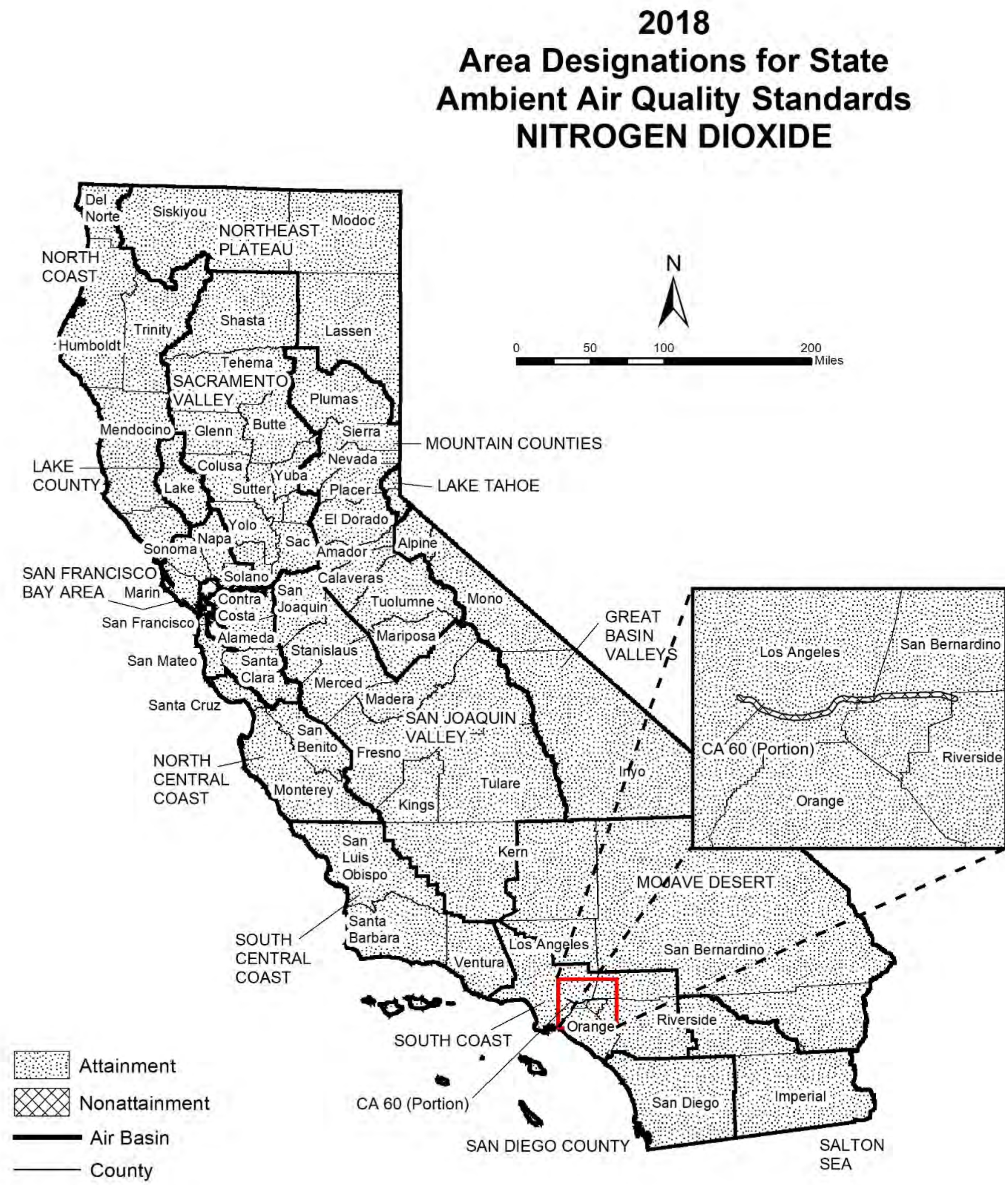
TABLE 4

California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				X
Calaveras County			X		SAN DIEGO AIR BASIN				X
El Dorado County (portion)			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Mariposa County			X		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			X		Fresno County				X
Placer County (portion)			X		Kern County (portion)				X
Plumas County				X	Kings County			X	
Sierra County			X		Madera County			X	
Tuolumne County				X	Merced County			X	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				X
Monterey County				X	Stanislaus County				X
San Benito County			X		Tulare County				X
Santa Cruz County			X		SOUTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				X
Del Norte County			X						
Humboldt County				X					
Mendocino County				X					
Sonoma County (portion)			X						
Trinity County			X						
NORTHEAST PLATEAU AIR BASIN			X						

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

FIGURE 5



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 5

California Ambient Air Quality Standards
Area Designation for Nitrogen Dioxide

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			X	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
				Remainder of Air Basin			X

FIGURE 6

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SALTON SEA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN DIEGO AIR BASIN		X
MOJAVE DESERT AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X			

* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7


2018
Area Designations for State
Ambient Air Quality Standards
SULFATES
N
0 50 100 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Humboldt
Trinity
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
LAKE COUNTY
Nevada
Colusa
Yuba
Placer
LAKE TAHOE
Lake
Sutter
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
Solano
SAN FRANCISCO BAY AREA
Marin
Contra Costa
Calaveras
San Joaquin
Tuolumne
Mono
San Francisco
GREAT BASIN VALLEYS
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
SAN JOAQUIN VALLEY
San Benito
NORTH CENTRAL COAST
Fresno
Inyo
Monterey
Tulare
Kings
San Luis Obispo
Kern
MOJAVE DESERT
SOUTH CENTRAL COAST
Santa Barbara
Ventura
Los Angeles
San Bernardino
SOUTH COAST
Orange
Riverside
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

FIGURE 8


2018
Area Designations for State
Ambient Air Quality Standards
LEAD
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Humboldt
Trinity
Shasta
Lassen
N
0
50
100
200
Miles
Tehama
SACRAMENTO VALLEY
Plumas
Butte
Glenn
Mendocino
Sierra
MOUNTAIN COUNTIES
LAKE COUNTY
Nevada
Colusa
Yuba
Placer
LAKE TAHOE
Lake
El Dorado
Yolo
Sonoma
Alpine
Napa
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
Tuolumne
San Joaquin
Mono
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
GREAT BASIN VALLEYS
Santa Cruz
Fresno
SAN JOAQUIN VALLEY
San Benito
Inyo
NORTH CENTRAL COAST
Tulare
Monterey
Kings
San Luis Obispo
Kern
MOJAVE DESERT
Santa Barbara
San Bernardino
SOUTH CENTRAL COAST
Ventura
Los Angeles
SOUTH COAST
Orange
Riverside
San Diego
Imperial
SAN DIEGO COUNTY
SALTON SEA
Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

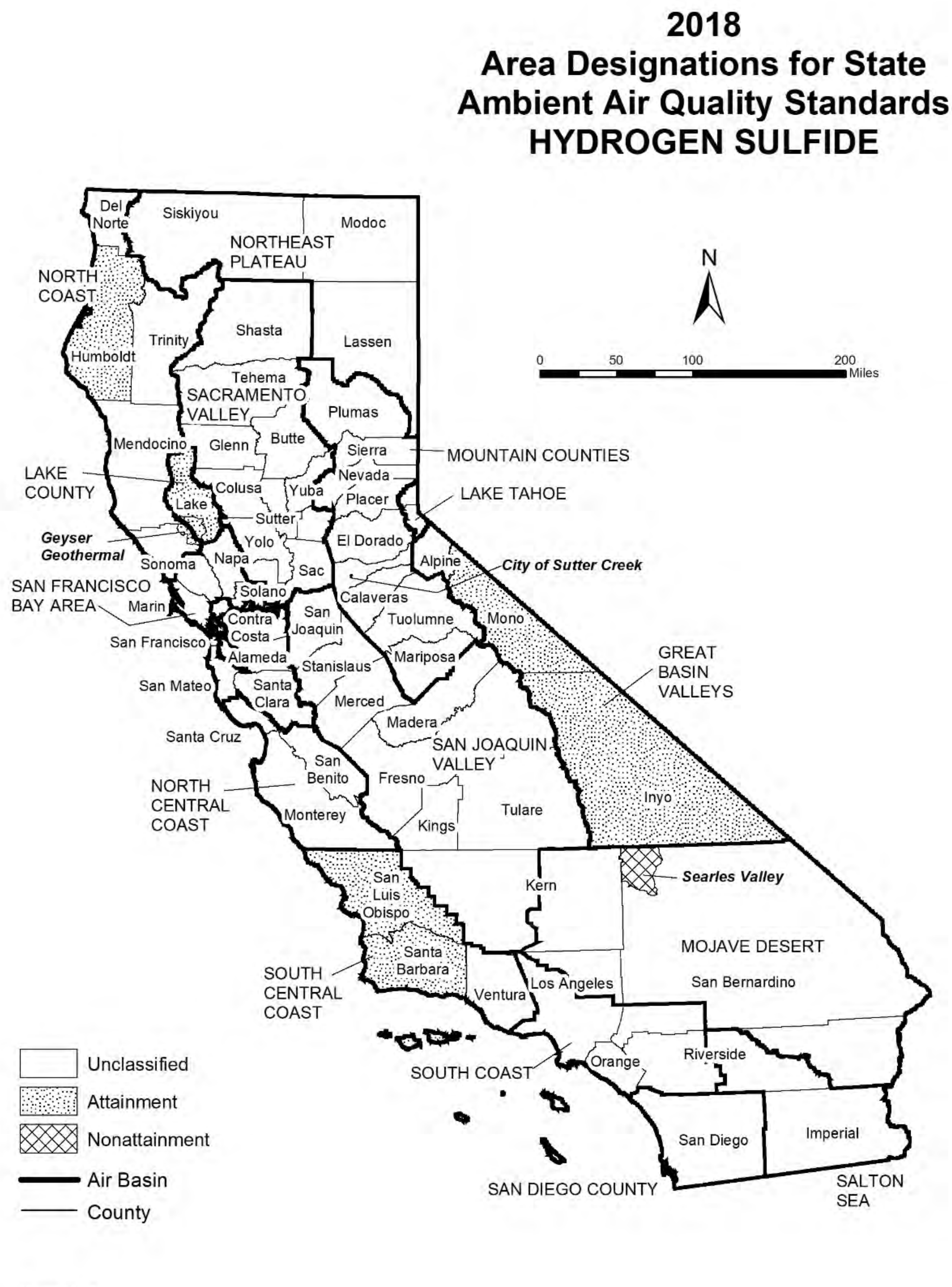
TABLE 8

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

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN			X				

* 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



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

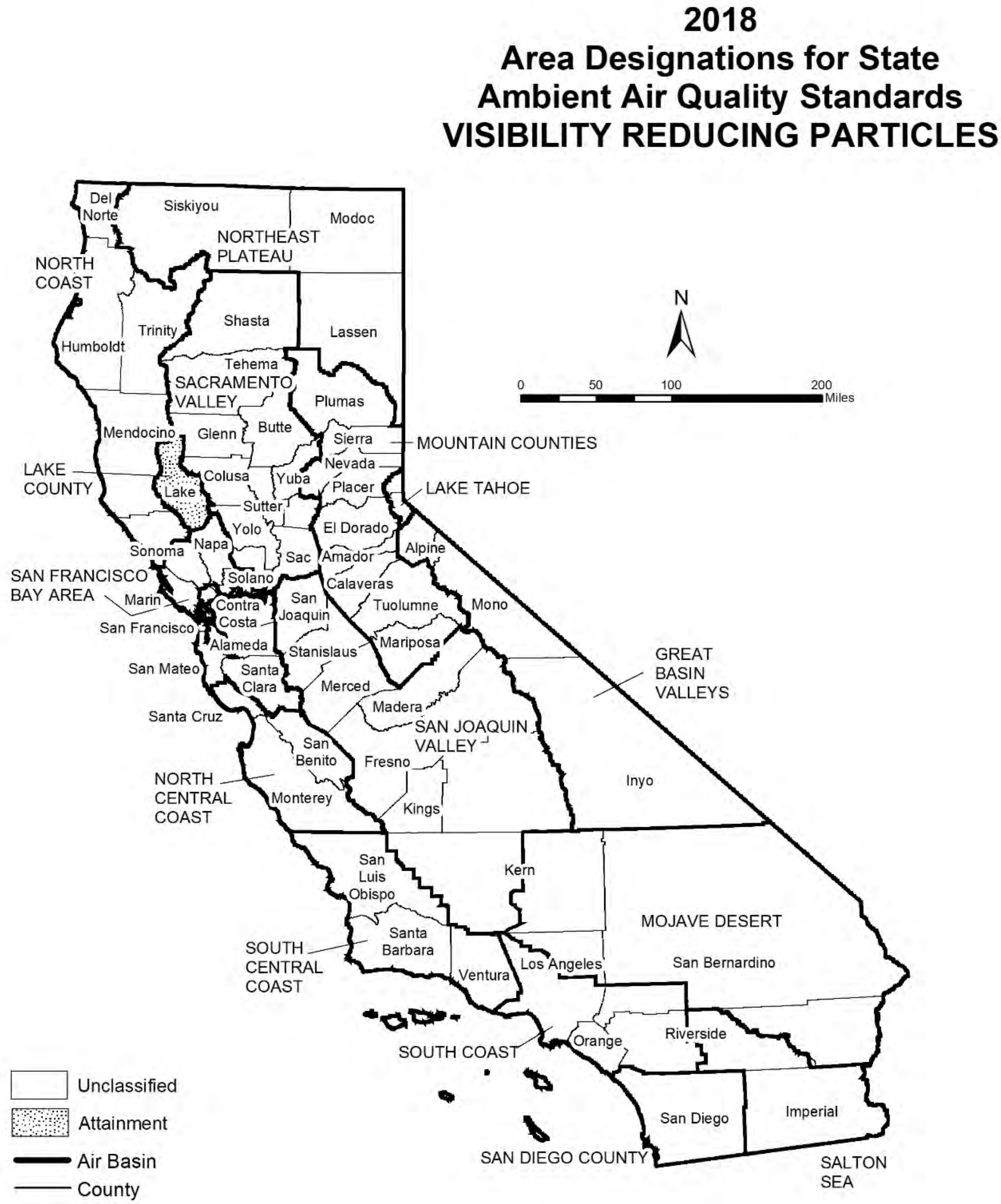
	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

* 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



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

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

<u>Designation Categories</u>

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

- Attainment
- Nonattainment
- Unclassifiable

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
- Unclassifiable/Attainment

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. Original 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 $\mu g/m^3$. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 $\mu g/m^3$ as well as the 24-hour standard of 35 $\mu g/m^3$, 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,
- Unclassifiable, and
- Attainment/Unclassifiable.

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.

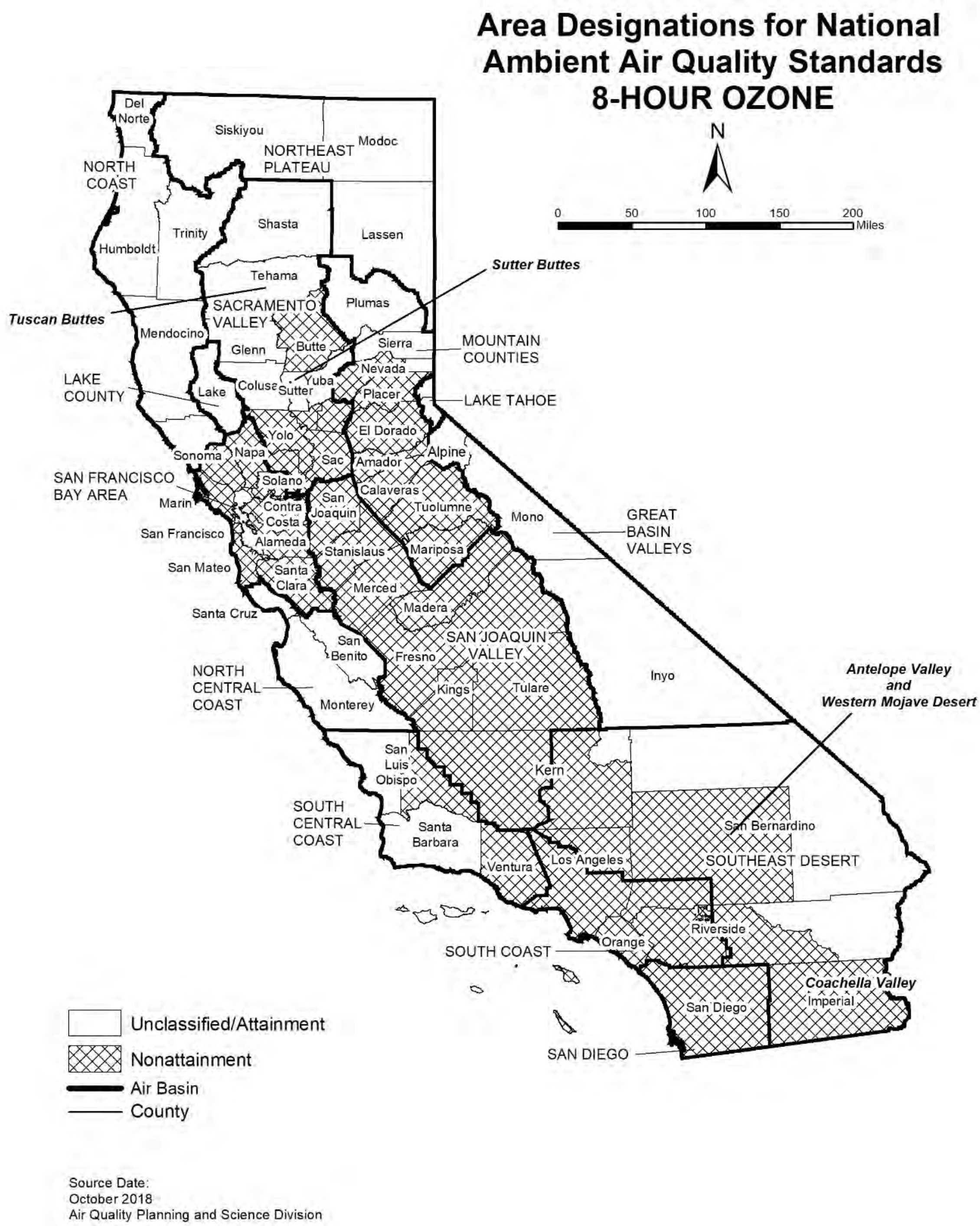
Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 μg/m^3. Designations were made for this standard in November 2010.

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
Marin
San Joaquin
Calaveras
Contra Costa
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
San Benito
SAN JOAQUIN VALLEY
Fresno
NORTH CENTRAL COAST
Kings
Tulare
Inyo
Antelope Valley and Western Mojave Desert
Monterey
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Orange
SOUTH COAST
Coachella Valley
San Diego
Imperial
SAN DIEGO
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 11

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

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Yolo County (2)	X	
LAKE TAHOE AIR BASIN		X	Yuba County		X
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	X	
Amador County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
Calaveras County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	X		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	X	
- Western Nevada County	X		- Remainder of County		X
- Remainder of County		X	Santa Barbara County		X
Placer County (portion) (2)	X		Ventura County		
Plumas County		X	- Area excluding Anacapa and San Nicolas Islands	X	
Sierra County		X	- Channel Islands (1)		X
Tuolumne County	X		SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	- Indian Wells Valley		X
SACRAMENTO VALLEY AIR BASIN			Imperial County	X	
Butte County	X		Los Angeles County (portion)	X	
Colusa County		X	Riverside County (portion)		
Glenn County		X	- Coachella Valley	X	
Sacramento Metro Area (2)	X		- Non-AQMA portion		X
Shasta County		X	San Bernardino County		
Sutter County			- Western portion (AQMA)	X	
- Sutter Buttes	X		- Eastern portion (non-AQMA)		X
- Southern portion of Sutter County (2)	X				
- Remainder of Sutter County		X			
Tehama County					
- Tuscan Buttes	X				
- Remainder of Tehama County		X			

* 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) 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.

(2) 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.

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
Lassen
Trinity
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
Nevada
MOUNTAIN COUNTIES
LAKE COUNTY
Colusa
Yuba
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Alpine
Sacramento County
Sonoma
Napa
Sac
Amador
SAN FRANCISCO BAY AREA
Marin
Solano
Mono
Mono Basin
Calaveras
San Joaquin
Contra Costa
Tuolumne
Mammoth Lake
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
NORTH CENTRAL COAST
Monterey
Kings
Tulare
Coso Junction
Trona
San Luis Obispo
Kern
Indian Wells Valley
San Bernardino
SOUTH CENTRAL COAST
Santa Barbara
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Coachella Valley
SOUTH COAST
Orange
Imperial
San Diego
SAN DIEGO COUNTY
Unclassified
Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM10)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction			X	SOUTH COAST AIR BASIN			X
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			X	- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley (3)	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)			X				
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

* 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 PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.
(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.
(3) Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

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
Yolo
El Dorado
Sonoma
Alpine
Napa
Sacramento
Amador
Solano
Calaveras
GREAT BASIN VALLEYS
SAN FRANCISCO BAY AREA
Marin
Tuolumne
Contra Costa
San Joaquin
Mono
Alameda
Stanislaus
Mariposa
San Mateo
Merced
Santa Clara
Madera
Santa Cruz
Fresno
NORTH CENTRAL COAST
San Benito
SAN JOAQUIN VALLEY
Inyo
Tulare
Monterey
Kings
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
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN (2)	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		X
Plumas County			SOUTH COAST AIR BASIN (3)	X	
- Portola Valley Portion of Plumas	X		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		X	Imperial County (portion) (4)	X	
Remainder of Air Basin		X	Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X			
NORTH COAST AIR BASIN		X			
NORTHEAST PLATEAU AIR BASIN		X			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	X				
Sutter County		X			
Yuba County (portion)		X			
Remainder of Air Basin		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 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 PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(2) Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 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 PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

FIGURE 14


Area Designations for National Ambient Air Quality Standards CARBON MONOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Yuba
Lake
Sutter
Placer
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
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* 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
Shasta
Lassen
Trinity
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Yuba
LAKE COUNTY
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Marin
Solano
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
NORTH CENTRAL COAST
Fresno
Inyo
Tulare
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
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 15

National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

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

FIGURE 16

Area Designations for National Ambient Air Quality Standards SULFUR DIOXIDE
N
0
50
100
150
200
Miles
NORTH COAST
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
Humboldt
Trinity
Shasta
Lassen
Tehema
Plumas
SACRAMENTO VALLEY
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Colusa
Nevada
Yuba
LAKE COUNTY
Lake
Sutter
Placer
LAKE TAHOE
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Marin
Solano
Calaveras
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
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Ventura
Los Angeles
San Bernardino
Riverside
SOUTH COAST
Orange
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN		X	Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County		X
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County		X
SAN DIEGO COUNTY		X	Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN		X			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)		X			
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

* 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
Shasta
Lassen
Trinity
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Colusa
Nevada
Yuba
Sutter
Lake
Placer
LAKE TAHOE
LAKE COUNTY
El Dorado
Yolo
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
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
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 17

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

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) (1)	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

(1) Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS

MFBC Building 17 (Construction) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MFBC Building 17 (Construction)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.856453754053824, -117.25956342190489
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5479
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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	269	1000sqft	10.0	268,955	166,691	0.00	—	—
Parking Lot	261	Space	1.44	0.00	0.00	0.00	—	—

Other Asphalt Surfaces	183	1000sqft	4.19	0.00	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.	1.34	1.22	18.0	35.9	0.05	0.30	1.77	2.06	0.28	0.43	0.71	—	7,241	7,241	0.28	0.25	8.80	7,331
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.79	43.1	71.8	49.7	0.36	1.11	14.7	15.8	1.10	4.34	5.45	—	51,669	51,669	1.11	7.09	2.50	53,814
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.02	5.37	17.4	25.4	0.06	0.28	2.41	2.69	0.27	0.68	0.95	—	8,645	8,645	0.26	0.73	5.68	8,876
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.98	3.17	4.64	0.01	0.05	0.44	0.49	0.05	0.12	0.17	—	1,431	1,431	0.04	0.12	0.94	1,470

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.34	1.22	18.0	35.9	0.05	0.30	1.77	2.06	0.28	0.43	0.71	—	7,241	7,241	0.28	0.25	8.80	7,331
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.78	0.77	16.0	31.2	0.05	0.11	5.94	6.05	0.11	2.75	2.86	—	5,923	5,923	0.24	0.08	0.04	5,952
2025	2.79	43.1	71.8	49.7	0.36	1.11	14.7	15.8	1.10	4.34	5.45	—	51,669	51,669	1.11	7.09	2.50	53,814
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.04	0.04	0.91	1.77	< 0.005	0.01	0.34	0.34	0.01	0.16	0.16	—	336	336	0.01	< 0.005	0.04	338
2025	1.02	5.37	17.4	25.4	0.06	0.28	2.41	2.69	0.27	0.68	0.95	—	8,645	8,645	0.26	0.73	5.68	8,876
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.01	0.01	0.17	0.32	< 0.005	< 0.005	0.06	0.06	< 0.005	0.03	0.03	—	55.7	55.7	< 0.005	< 0.005	0.01	56.0
2025	0.19	0.98	3.17	4.64	0.01	0.05	0.44	0.49	0.05	0.12	0.17	—	1,431	1,431	0.04	0.12	0.94	1,470

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.68	15.7	30.0	0.05	0.10	—	0.10	0.10	—	0.10	—	5,529	5,529	0.22	0.04	—	5,548

Dust From Material Movement	—	—	—	—	—	—	5.66	5.66	—	2.69	2.69	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.89	1.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	314	314	0.01	< 0.005	—	315
Dust From Material Movement	—	—	—	—	—	—	0.32	0.32	—	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	0.01	0.01	0.16	0.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	52.0	52.0	< 0.005	< 0.005	—	52.1
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	0.10	0.09	0.10	1.14	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	238	238	0.01	0.01	0.03	241
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	155	155	< 0.005	0.02	0.01	162
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	13.7	13.7	< 0.005	< 0.005	0.03	13.9
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.81	8.81	< 0.005	< 0.005	0.01	9.22
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.27	2.27	< 0.005	< 0.005	< 0.005	2.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.46	1.46	< 0.005	< 0.005	< 0.005	1.53
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. 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	0.68	0.68	15.7	30.0	0.05	0.10	—	0.10	0.10	—	0.10	—	5,528	5,528	0.22	0.04	—	5,547
Dust From Material Movement	—	—	—	—	—	—	5.66	5.66	—	2.69	2.69	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.40	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	141	141	0.01	< 0.005	—	141

Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.07	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23.3	23.3	< 0.005	< 0.005	—	23.4
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.05	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	233	233	0.01	0.01	0.02	236
Vendor	0.01	< 0.005	0.18	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	153	153	< 0.005	0.02	0.01	160
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	6.01	6.01	< 0.005	< 0.005	0.01	6.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	< 0.005	4.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.01
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67

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 (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	0.88	0.88	20.0	36.2	0.06	0.26	—	0.26	0.25	—	0.25	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.74	2.74	—	0.99	0.99	—	—	—	—	—	—	—
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	0.07	0.07	1.64	2.97	0.01	0.02	—	0.02	0.02	—	0.02	—	552	552	0.02	< 0.005	—	554
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.30	0.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	91.4	91.4	< 0.005	< 0.005	—	91.7

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.17	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	259	259	0.01	0.01	0.03	262
Vendor	0.01	< 0.005	0.18	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	153	153	< 0.005	0.02	0.01	160
Hauling	1.81	0.67	51.6	12.3	0.30	0.85	3.13	3.99	0.85	1.14	1.99	—	44,542	44,542	0.83	7.01	2.46	46,653
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	21.6	21.6	< 0.005	< 0.005	0.04	21.9
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	13.2
Hauling	0.15	0.06	4.29	1.00	0.02	0.07	0.26	0.33	0.07	0.09	0.16	—	3,660	3,660	0.07	0.58	3.35	3,836
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.57	3.57	< 0.005	< 0.005	0.01	3.62
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.08	2.08	< 0.005	< 0.005	< 0.005	2.18
Hauling	0.03	0.01	0.78	0.18	< 0.005	0.01	0.05	0.06	0.01	0.02	0.03	—	606	606	0.01	0.10	0.55	635

3.7. Building Construction (2025) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.69	16.4	26.8	0.05	0.28	—	0.28	0.27	—	0.27	—	4,608	4,608	0.19	0.04	—	4,624
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	0.69	0.69	16.4	26.8	0.05	0.28	—	0.28	0.27	—	0.27	—	4,608	4,608	0.19	0.04	—	4,624
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	0.40	0.40	9.43	15.4	0.03	0.16	—	0.16	0.15	—	0.15	—	2,651	2,651	0.11	0.02	—	2,660
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	1.72	2.81	< 0.005	0.03	—	0.03	0.03	—	0.03	—	439	439	0.02	< 0.005	—	440
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	0.61	0.51	0.49	8.73	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,593	1,593	0.07	0.06	5.85	1,617
Vendor	0.05	0.02	1.14	0.35	0.01	0.02	0.06	0.08	0.02	0.02	0.04	—	1,040	1,040	0.02	0.16	2.95	1,091
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	0.53	0.48	0.55	6.59	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,464	1,464	0.07	0.06	0.15	1,483
Vendor	0.05	0.02	1.20	0.36	0.01	0.02	0.06	0.08	0.02	0.02	0.04	—	1,041	1,041	0.02	0.16	0.08	1,089
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	0.30	0.27	0.34	4.01	0.00	0.00	0.05	0.05	0.00	0.00	0.00	—	853	853	0.04	0.03	1.45	865
Vendor	0.03	0.01	0.69	0.21	< 0.005	0.01	0.04	0.04	0.01	0.01	0.02	—	599	599	0.01	0.09	0.74	627
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.73	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	141	141	0.01	0.01	0.24	143
Vendor	< 0.005	< 0.005	0.13	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	99.1	99.1	< 0.005	0.02	0.12	104
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 (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	0.29	0.29	7.24	10.6	0.01	0.16	—	0.16	0.15	—	0.15	—	1,511	1,511	0.06	0.01	—	1,517
Paving	—	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.40	0.58	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	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	< 0.005	< 0.005	0.07	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.88	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	194	194	0.01	0.01	0.02	197
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	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	10.8	10.8	< 0.005	< 0.005	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.79	1.79	< 0.005	< 0.005	< 0.005	1.81

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

3.11. Architectural Coating (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	0.07	0.07	1.45	1.28	< 0.005	0.09	—	0.09	0.08	—	0.08	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	40.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Architectural Coatings	—	4.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.23	3.23	< 0.005	< 0.005	—	3.24

Architect Coatings	—	0.81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.11	0.10	0.11	1.34	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	298	298	0.01	0.01	0.03	302
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	33.1	33.1	< 0.005	< 0.005	0.06	33.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.48	5.48	< 0.005	< 0.005	0.01	5.55
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)

Vegetatio	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
Site Preparation	Site Preparation	12/3/2024	1/13/2025	5.00	30.0	—
Grading	Grading	1/14/2025	2/24/2025	5.00	30.0	—
Building Construction	Building Construction	2/25/2025	12/15/2025	5.00	210	—
Paving	Paving	11/18/2025	12/15/2025	5.00	20.0	—
Architectural Coating	Architectural Coating	10/21/2025	12/15/2025	5.00	40.0	—

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
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	3.00	8.00	367	0.40
Grading	Excavators	Diesel	Tier 3	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Interim	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Tier 4 Interim	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	4.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 3	2.00	8.00	14.0	0.74

Building Construction	Welders	Diesel	Tier 3	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 3	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 3	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	4.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.00	8.00	87.0	0.43
Building Construction	Crawler Tractors	Diesel	Tier 4 Interim	4.00	8.00	87.0	0.43

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	5.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	5.00	10.2	HHDT,MHDT
Grading	Hauling	646	20.0	HHDT
Grading	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	113	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	34.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	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	403,433	134,478	14,721

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	105	0.00	—
Grading	154,976	0.00	120	0.00	—

Paving	0.00	0.00	0.00	0.00	5.63

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	1.44	100%
Other Asphalt Surfaces	4.19	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

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	29.1	annual days of extreme heat
Extreme Precipitation	2.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.94	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	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	97.0
AQ-PM	59.4
AQ-DPM	37.5
Drinking Water	9.23
Lead Risk Housing	47.7
Pesticides	62.1
Toxic Releases	42.9
Traffic	88.8
Effect Indicators	—
CleanUp Sites	86.7
Groundwater	47.4
Haz Waste Facilities/Generators	10.2
Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	60.6
Cardio-vascular	85.8

Low Birth Weights	31.7
Socioeconomic Factor Indicators	—
Education	87.7
Housing	81.3
Linguistic	64.8
Poverty	83.3
Unemployment	60.6

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	6.351854228
Employed	6.03105351
Median HI	12.11343513
Education	—
Bachelor's or higher	2.912870525
High school enrollment	14.38470422
Preschool enrollment	8.892595919
Transportation	—
Auto Access	50.17323239
Active commuting	15.14179392
Social	—
2-parent households	34.73630181
Voting	3.888104709
Neighborhood	—
Alcohol availability	71.10227127

Park access	2.194276915
Retail density	13.39663801
Supermarket access	2.399589375
Tree canopy	1.013730271
Housing	—
Homeownership	46.10547928
Housing habitability	18.85025022
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	7.994353907
Uncrowded housing	6.73681509
Health Outcomes	—
Insured adults	2.810214295
Arthritis	0.0
Asthma ER Admissions	42.6
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	16.2
Cognitively Disabled	44.8
Physically Disabled	41.1
Heart Attack ER Admissions	12.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0

Pedestrian Injuries	86.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	79.3
English Speaking	32.3
Foreign-born	68.1
Outdoor Workers	7.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.5
Traffic Density	80.7
Traffic Access	23.0
Other Indices	—
Hardship	97.3
Other Decision Support	—
2016 Voting	8.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	79.0

Healthy Places Index Score for Project Location (b)	2.00
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 15.63 acres
Construction: Construction Phases	Construction anticipated to begin December 2024 and end December 2025
Construction: Off-Road Equipment	Equipment based on equipment used for construction of other industrial projects in the area
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113

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APPENDIX 3.2:

CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS

MFBC Building 17 (Operations) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MFBC Building 17 (Operations)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.856453754053824, -117.25956342190489
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5479
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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	269	1000sqft	10.0	268,955	166,691	0.00	—	—
User Defined Industrial	269	User Defined Unit	0.00	0.00	0.00	0.00	—	—

Parking Lot	261	Space	1.44	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	183	1000sqft	4.19	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.78	9.88	4.88	31.6	0.07	0.09	2.03	2.12	0.09	0.38	0.47	255	9,379	9,634	26.2	0.95	299	10,871
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.64	7.89	5.06	16.4	0.07	0.08	2.03	2.10	0.07	0.38	0.45	255	9,019	9,275	26.2	0.95	275	10,488
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.89	9.06	4.67	23.3	0.06	0.08	1.82	1.90	0.08	0.34	0.42	255	8,343	8,598	26.2	0.89	284	9,802
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.53	1.65	0.85	4.25	0.01	0.01	0.33	0.35	0.01	0.06	0.08	42.3	1,381	1,424	4.33	0.15	47.0	1,623

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	1.70	1.48	4.78	19.9	0.07	0.08	2.03	2.10	0.07	0.38	0.45	—	7,678	7,678	0.20	0.63	25.2	7,897
Area	2.08	8.40	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	49.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,235	1,235	0.12	0.01	—	1,242
Water	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Waste	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	3.78	9.88	4.88	31.6	0.07	0.09	2.03	2.12	0.09	0.38	0.47	255	9,379	9,634	26.2	0.95	299	10,871
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.64	1.42	5.06	16.4	0.07	0.08	2.03	2.10	0.07	0.38	0.45	—	7,367	7,367	0.20	0.64	0.65	7,564
Area	—	6.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,235	1,235	0.12	0.01	—	1,242
Water	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Waste	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	1.64	7.89	5.06	16.4	0.07	0.08	2.03	2.10	0.07	0.38	0.45	255	9,019	9,275	26.2	0.95	275	10,488
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.47	1.27	4.60	15.3	0.06	0.07	1.82	1.89	0.07	0.34	0.41	—	6,657	6,657	0.18	0.58	9.79	6,844
Area	1.42	7.79	0.07	8.01	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.9	32.9	< 0.005	< 0.005	—	33.9
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,235	1,235	0.12	0.01	—	1,242
Water	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Waste	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274

Total	2.89	9.06	4.67	23.3	0.06	0.08	1.82	1.90	0.08	0.34	0.42	255	8,343	8,598	26.2	0.89	284	9,802
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.27	0.23	0.84	2.79	0.01	0.01	0.33	0.34	0.01	0.06	0.07	—	1,102	1,102	0.03	0.10	1.62	1,133
Area	0.26	1.42	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.61
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	204	204	0.02	< 0.005	—	206
Water	—	—	—	—	—	—	—	—	—	—	—	19.7	69.2	88.9	2.03	0.05	—	154
Waste	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.4	45.4
Total	0.53	1.65	0.85	4.25	0.01	0.01	0.33	0.35	0.01	0.06	0.08	42.3	1,381	1,424	4.33	0.15	47.0	1,623

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	1.54	1.39	0.91	18.8	0.04	0.02	1.47	1.49	0.02	0.25	0.27	—	4,070	4,070	0.13	0.09	14.7	4,115
User Defined Industrial	0.17	0.10	3.87	1.15	0.03	0.06	0.55	0.61	0.06	0.13	0.18	—	3,608	3,608	0.06	0.54	10.5	3,782
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	1.70	1.48	4.78	19.9	0.07	0.08	2.03	2.10	0.07	0.38	0.45	—	7,678	7,678	0.20	0.63	25.2	7,897
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	1.48	1.33	1.01	15.2	0.04	0.02	1.47	1.49	0.02	0.25	0.27	—	3,757	3,757	0.14	0.10	0.38	3,790
User Defined Industrial	0.16	0.09	4.04	1.17	0.03	0.06	0.55	0.61	0.06	0.13	0.19	—	3,610	3,610	0.06	0.54	0.27	3,773
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	1.64	1.42	5.06	16.4	0.07	0.08	2.03	2.10	0.07	0.38	0.45	—	7,367	7,367	0.20	0.64	0.65	7,564
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.24	0.22	0.17	2.60	0.01	< 0.005	0.24	0.24	< 0.005	0.04	0.04	—	565	565	0.02	0.02	0.95	571
User Defined Industrial	0.03	0.02	0.67	0.19	0.01	0.01	0.09	0.10	0.01	0.02	0.03	—	537	537	0.01	0.08	0.67	562
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	0.27	0.23	0.84	2.79	0.01	0.01	0.33	0.34	0.01	0.06	0.07	—	1,102	1,102	0.03	0.10	1.62	1,133

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,182	1,182	0.11	0.01	—	1,189
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	52.5	52.5	< 0.005	< 0.005	—	52.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,235	1,235	0.12	0.01	—	1,242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,182	1,182	0.11	0.01	—	1,189
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	52.5	52.5	< 0.005	< 0.005	—	52.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,235	1,235	0.12	0.01	—	1,242
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	196	196	0.02	< 0.005	—	197
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	8.69	8.69	< 0.005	< 0.005	—	8.74
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	204	204	0.02	< 0.005	—	206

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

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	5.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.08	1.92	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	49.5
Total	2.08	8.40	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	49.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	5.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.26	0.24	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.61
Total	0.26	1.42	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.61

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
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	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
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	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19.7	69.2	88.9	2.03	0.05	—	154
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	—	—	—	—	—	—	—	—	—	—	—	19.7	69.2	88.9	2.03	0.05	—	154

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
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	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
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	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
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	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.4	45.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.4	45.4

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
Unrefrigerated Warehouse-No Rail	318	213	197	104,265	5,546	3,709	3,433	1,818,308
User Defined Industrial	60.0	40.1	37.1	19,673	1,254	839	776	411,218
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	403,433	134,478	14,721

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,237,825	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	54,948	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	62,195,844	2,643,004
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	253	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

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	29.1	annual days of extreme heat
Extreme Precipitation	2.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.94	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	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	97.0
AQ-PM	59.4
AQ-DPM	37.5
Drinking Water	9.23
Lead Risk Housing	47.7
Pesticides	62.1
Toxic Releases	42.9
Traffic	88.8
Effect Indicators	—
CleanUp Sites	86.7
Groundwater	47.4
Haz Waste Facilities/Generators	10.2

Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	60.6
Cardio-vascular	85.8
Low Birth Weights	31.7
Socioeconomic Factor Indicators	—
Education	87.7
Housing	81.3
Linguistic	64.8
Poverty	83.3
Unemployment	60.6

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	6.351854228
Employed	6.03105351
Median HI	12.11343513
Education	—
Bachelor's or higher	2.912870525
High school enrollment	14.38470422
Preschool enrollment	8.892595919
Transportation	—
Auto Access	50.17323239
Active commuting	15.14179392

Social	—
2-parent households	34.73630181
Voting	3.888104709
Neighborhood	—
Alcohol availability	71.10227127
Park access	2.194276915
Retail density	13.39663801
Supermarket access	2.399589375
Tree canopy	1.013730271
Housing	—
Homeownership	46.10547928
Housing habitability	18.85025022
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	7.994353907
Uncrowded housing	6.73681509
Health Outcomes	—
Insured adults	2.810214295
Arthritis	0.0
Asthma ER Admissions	42.6
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	16.2
Cognitively Disabled	44.8

Physically Disabled	41.1
Heart Attack ER Admissions	12.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	86.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	79.3
English Speaking	32.3
Foreign-born	68.1
Outdoor Workers	7.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.5
Traffic Density	80.7
Traffic Access	23.0
Other Indices	—
Hardship	97.3
Other Decision Support	—

2016 Voting	8.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	79.0
Healthy Places Index Score for Project Location (b)	2.00
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 15.63 acres
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
Operations: Energy Use	The Project will not use natural gas

Operations: Refrigerants	Per 17 CCR 95371, new refrigeration equipment containing >50 lbs of refrigerant in new facilities is prohibited from utilizing refrigerants with a GWP of 150 or greater as of 1 Jan 2022

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APPENDIX 3.3:

CALEEMOD PROJECT LOCALIZED OPERATIONAL EMISSIONS MODEL OUTPUTS

MFBC Building 17 (Localized Operations) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MFBC Building 17 (Localized Operations)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	9.00
Location	33.856453754053824, -117.25956342190489
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5479
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

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	269	1000sqft	10.0	268,955	166,691	0.00	—	—
User Defined Industrial	269	User Defined Unit	0.00	0.00	0.00	0.00	—	—

Parking Lot	261	Space	1.44	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	183	1000sqft	4.19	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.09	9.36	1.00	14.6	< 0.005	0.02	0.07	0.09	0.02	0.01	0.04	255	2,059	2,315	26.1	0.36	275	3,350
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.96	7.39	0.95	3.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.02	255	2,002	2,258	26.1	0.36	274	3,291
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.27	8.60	0.91	10.8	< 0.005	0.01	0.06	0.07	0.02	0.01	0.03	255	2,001	2,256	26.1	0.36	274	3,289
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.42	1.57	0.17	1.98	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	42.3	331	373	4.31	0.06	45.4	545

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	1.01	0.97	0.90	2.89	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.02	—	359	359	0.07	0.05	0.81	376
Area	2.08	8.40	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	49.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,235	1,235	0.12	0.01	—	1,242
Water	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Waste	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	3.09	9.36	1.00	14.6	< 0.005	0.02	0.07	0.09	0.02	0.01	0.04	255	2,059	2,315	26.1	0.36	275	3,350
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.96	0.91	0.95	3.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.02	—	350	350	0.07	0.05	0.02	367
Area	—	6.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,235	1,235	0.12	0.01	—	1,242
Water	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Waste	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	0.96	7.39	0.95	3.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.02	255	2,002	2,258	26.1	0.36	274	3,291
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.81	0.84	2.82	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	315	315	0.07	0.05	0.31	331
Area	1.42	7.79	0.07	8.01	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.9	32.9	< 0.005	< 0.005	—	33.9
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,235	1,235	0.12	0.01	—	1,242
Water	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Waste	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274

Total	2.27	8.60	0.91	10.8	< 0.005	0.01	0.06	0.07	0.02	0.01	0.03	255	2,001	2,256	26.1	0.36	274	3,289
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	0.15	0.15	0.51	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	52.1	52.1	0.01	0.01	0.05	54.8
Area	0.26	1.42	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.61
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	204	204	0.02	< 0.005	—	206
Water	—	—	—	—	—	—	—	—	—	—	—	19.7	69.2	88.9	2.03	0.05	—	154
Waste	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.4	45.4
Total	0.42	1.57	0.17	1.98	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	42.3	331	373	4.31	0.06	45.4	545

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	0.95	0.93	0.20	2.43	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	191	191	0.05	0.02	0.51	200
User Defined Industrial	0.06	0.04	0.70	0.47	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	167	167	0.02	0.03	0.30	176
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	1.01	0.97	0.90	2.89	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.02	—	359	359	0.07	0.05	0.81	376
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.90	0.88	0.22	2.63	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	181	181	0.05	0.03	0.01	190
User Defined Industrial	0.05	0.03	0.73	0.48	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	169	169	0.02	0.03	0.01	177
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	0.96	0.91	0.95	3.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.02	—	350	350	0.07	0.05	0.02	367
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.15	0.14	0.04	0.44	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.1	27.1	0.01	< 0.005	0.03	28.5
User Defined Industrial	0.01	0.01	0.12	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.3
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	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	0.15	0.51	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	52.1	52.1	0.01	0.01	0.05	54.8

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,182	1,182	0.11	0.01	—	1,189
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	52.5	52.5	< 0.005	< 0.005	—	52.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,235	1,235	0.12	0.01	—	1,242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,182	1,182	0.11	0.01	—	1,189
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	52.5	52.5	< 0.005	< 0.005	—	52.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,235	1,235	0.12	0.01	—	1,242
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	196	196	0.02	< 0.005	—	197
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	8.69	8.69	< 0.005	< 0.005	—	8.74
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	204	204	0.02	< 0.005	—	206

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

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	5.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.08	1.92	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	49.5
Total	2.08	8.40	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	49.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	5.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	6.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.26	0.24	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.61
Total	0.26	1.42	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.61

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
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	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
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	—	—	—	—	—	—	—	—	—	—	—	119	418	537	12.3	0.30	—	931
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	19.7	69.2	88.9	2.03	0.05	—	154
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	—	—	—	—	—	—	—	—	—	—	—	19.7	69.2	88.9	2.03	0.05	—	154

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
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	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
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	—	—	—	—	—	—	—	—	—	—	—	136	0.00	136	13.6	0.00	—	477
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9
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	—	—	—	—	—	—	—	—	—	—	—	22.6	0.00	22.6	2.25	0.00	—	78.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	274	274
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.4	45.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.4	45.4

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
Unrefrigerated Warehouse-No Rail	318	213	197	104,265	191	128	118	62,559
User Defined Industrial	60.0	40.1	37.1	19,673	36.0	24.1	22.3	11,804
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	403,433	134,478	14,721

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	1,237,825	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	0.0330	0.0040	0.00
Parking Lot	54,948	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	62,195,844	2,643,004
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	253	0.00
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

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	29.1	annual days of extreme heat
Extreme Precipitation	2.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	6.94	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	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	97.0
AQ-PM	59.4
AQ-DPM	37.5
Drinking Water	9.23
Lead Risk Housing	47.7
Pesticides	62.1
Toxic Releases	42.9
Traffic	88.8
Effect Indicators	—
CleanUp Sites	86.7
Groundwater	47.4
Haz Waste Facilities/Generators	10.2

Impaired Water Bodies	0.00
Solid Waste	52.9
Sensitive Population	—
Asthma	60.6
Cardio-vascular	85.8
Low Birth Weights	31.7
Socioeconomic Factor Indicators	—
Education	87.7
Housing	81.3
Linguistic	64.8
Poverty	83.3
Unemployment	60.6

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	6.351854228
Employed	6.03105351
Median HI	12.11343513
Education	—
Bachelor's or higher	2.912870525
High school enrollment	14.38470422
Preschool enrollment	8.892595919
Transportation	—
Auto Access	50.17323239
Active commuting	15.14179392

Social	—
2-parent households	34.73630181
Voting	3.888104709
Neighborhood	—
Alcohol availability	71.10227127
Park access	2.194276915
Retail density	13.39663801
Supermarket access	2.399589375
Tree canopy	1.013730271
Housing	—
Homeownership	46.10547928
Housing habitability	18.85025022
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	7.994353907
Uncrowded housing	6.73681509
Health Outcomes	—
Insured adults	2.810214295
Arthritis	0.0
Asthma ER Admissions	42.6
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	16.2
Cognitively Disabled	44.8

Physically Disabled	41.1
Heart Attack ER Admissions	12.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	86.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	51.6
Elderly	79.3
English Speaking	32.3
Foreign-born	68.1
Outdoor Workers	7.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.5
Traffic Density	80.7
Traffic Access	23.0
Other Indices	—
Hardship	97.3
Other Decision Support	—

2016 Voting	8.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	79.0
Healthy Places Index Score for Project Location (b)	2.00
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 15.63 acres
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
Operations: Energy Use	The Project will not use natural gas

Operations: Refrigerants	Per 17 CCR 95371, new refrigeration equipment containing >50 lbs of refrigerant in new facilities is prohibited from utilizing refrigerants with a GWP of 150 or greater as of 1 Jan 2022

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APPENDIX 3.4:

AERMOD LST MODELING INPUTS/OUTPUTS

```
**
***************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons CO\13697 Cons CO.ADI
**
***************************************
**
**
***************************************
** AERMOD Control Pathway
***************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons CO.err"
CO FINISHED
**
***************************************
** AERMOD Source Pathway
***************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
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   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.2850702048     5.000    44.819     1.400
   SRCPARAM B13_2        0.2850702048     5.000    44.819     1.400
   SRCPARAM B14_1        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_2        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_3        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_4        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_5        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_6        0.0950234016     5.000    27.337     1.400
   SRCPARAM B17_1        0.2850702048     5.000    44.726     1.400
   SRCPARAM B17_2        0.2850702048     5.000    44.726     1.400
   SRCPARAM B18_1        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_2        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_3        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_4        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_5        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_6        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_7        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_8        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_9        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_10       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_11       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_12       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_13       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_14       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_15       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_16       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_17       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_18       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_19       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_20       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_21       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_22       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_23       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_24       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_25       0.0228056164     5.000    12.365     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
```

```
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons CO.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
```

```
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
   PLOTFILE 1 ALL 1ST "13697 CONS CO.AD\1H_ALL.PLT" 31
   PLOTFILE 8 ALL 1ST "13697 CONS CO.AD\8H_ALL.PLT" 32
   PLOTFILE 8 B13 1ST "13697 CONS CO.AD\8H_B13.PLT" 33
   PLOTFILE 1 B13 1ST "13697 CONS CO.AD\1H_B13.PLT" 34
   PLOTFILE 1 B14 1ST "13697 CONS CO.AD\1H_B14.PLT" 35
   PLOTFILE 8 B14 1ST "13697 CONS CO.AD\8H_B14.PLT" 36
   PLOTFILE 8 B17 1ST "13697 CONS CO.AD\8H_B17.PLT" 37
   PLOTFILE 1 B17 1ST "13697 CONS CO.AD\1H_B17.PLT" 38
   PLOTFILE 1 B18 1ST "13697 CONS CO.AD\1H_B18.PLT" 39
   PLOTFILE 8 B18 1ST "13697 CONS CO.AD\8H_B18.PLT" 40
   SUMMFILE "13697 Cons 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
**
```

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** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons CO\13697 Cons CO.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons CO.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
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   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.2850702048     5.000    44.819     1.400
   SRCPARAM B13_2        0.2850702048     5.000    44.819     1.400
   SRCPARAM B14_1        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_2        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_3        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_4        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_5        0.0950234016     5.000    27.337     1.400
   SRCPARAM B14_6        0.0950234016     5.000    27.337     1.400
   SRCPARAM B17_1        0.2850702048     5.000    44.726     1.400
   SRCPARAM B17_2        0.2850702048     5.000    44.726     1.400
   SRCPARAM B18_1        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_2        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_3        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_4        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_5        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_6        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_7        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_8        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_9        0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_10       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_11       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_12       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_13       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_14       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_15       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_16       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_17       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_18       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_19       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_20       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_21       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_22       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_23       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_24       0.0228056164     5.000    12.365     1.400
   SRCPARAM B18_25       0.0228056164     5.000    12.365     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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** Saturday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
```

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   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons CO.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
```

```
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
   PLOTFILE 1 ALL 1ST "13697 CONS CO.AD\1H_ALL.PLT" 31
   PLOTFILE 8 ALL 1ST "13697 CONS CO.AD\8H_ALL.PLT" 32
   PLOTFILE 8 B13 1ST "13697 CONS CO.AD\8H_B13.PLT" 33
   PLOTFILE 1 B13 1ST "13697 CONS CO.AD\1H_B13.PLT" 34
   PLOTFILE 1 B14 1ST "13697 CONS CO.AD\1H_B14.PLT" 35
   PLOTFILE 8 B14 1ST "13697 CONS CO.AD\8H_B14.PLT" 36
   PLOTFILE 8 B17 1ST "13697 CONS CO.AD\8H_B17.PLT" 37
   PLOTFILE 1 B17 1ST "13697 CONS CO.AD\1H_B17.PLT" 38
   PLOTFILE 1 B18 1ST "13697 CONS CO.AD\1H_B18.PLT" 39
   PLOTFILE 8 B18 1ST "13697 CONS CO.AD\8H_B18.PLT" 40
   SUMMFILE "13697 Cons CO.sum"
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 ME W186     667       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     667       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

                        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    35 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO

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

**This Run Includes:     35 Source(s);       5 Source Group(s); and      78 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:     35 VOLUME source(s)
               and:      0 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 RLINE/RLINEXT source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
               and:      0 SWPOINT source(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

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

**Detailed Error/Message File:   13697 Cons
CO.err
**File for Summary of Results:   13697 Cons
```

```
 CO.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        13:33:18

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


                                                     *** VOLUME SOURCE DATA ***

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

 B13_1             0   0.28507E+00  476101.1 3745262.2   464.0     5.00    44.82     1.40
 YES   HRDOW
 B13_2             0   0.28507E+00  476102.0 3745072.0   465.9     5.00    44.82     1.40
 YES   HRDOW
 B14_1             0   0.95023E-01  475881.8 3745554.6   466.0     5.00    27.34     1.40
 YES   HRDOW
 B14_2             0   0.95023E-01  475881.2 3745437.3   468.2     5.00    27.34     1.40
 YES   HRDOW
 B14_3             0   0.95023E-01  475999.6 3745554.0   464.7     5.00    27.34     1.40
 YES   HRDOW
 B14_4             0   0.95023E-01  476000.0 3745437.7   465.7     5.00    27.34     1.40
 YES   HRDOW
 B14_5             0   0.95023E-01  476071.8 3745548.2   464.0     5.00    27.34     1.40
 YES   HRDOW
 B14_6             0   0.95023E-01  476118.4 3745439.0   463.0     5.00    27.34     1.40
 YES   HRDOW
 B17_1             0   0.28507E+00  475926.0 3746256.1   465.0     5.00    44.73     1.40
 YES   HRDOW
 B17_2             0   0.28507E+00  476070.8 3746258.4   463.0     5.00    44.73     1.40
 YES   HRDOW
 B18_1             0   0.22806E-01  475632.5 3746502.6   469.1     5.00    12.37     1.40
 YES   HRDOW
 B18_2             0   0.22806E-01  475633.4 3746447.8   469.9     5.00    12.37     1.40
 YES   HRDOW
 B18_3             0   0.22806E-01  475638.8 3746403.3   469.7     5.00    12.37     1.40
 YES   HRDOW
 B18_4             0   0.22806E-01  475681.1 3746405.0   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_5             0   0.22806E-01  475727.7 3746410.8   467.7     5.00    12.37     1.40
 YES   HRDOW
 B18_6             0   0.22806E-01  475775.0 3746409.1   466.4     5.00    12.37     1.40
 YES   HRDOW
 B18_7             0   0.22806E-01  475640.0 3746350.6   469.9     5.00    12.37     1.40
 YES   HRDOW
 B18_8             0   0.22806E-01  475690.3 3746353.5   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_9             0   0.22806E-01  475774.6 3746355.1   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_10            0   0.22806E-01  475731.0 3746357.2   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_11            0   0.22806E-01  475639.2 3746296.6   469.7     5.00    12.37     1.40
 YES   HRDOW
 B18_12            0   0.22806E-01  475689.9 3746300.7   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_13            0   0.22806E-01  475740.5 3746303.6   468.0     5.00    12.37     1.40
```

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 YES   HRDOW
 B18_14          0   0.22806E-01  475774.6 3746301.6   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_15          0   0.22806E-01  475637.5 3746242.6   469.8     5.00    12.37     1.40
 YES   HRDOW
 B18_16          0   0.22806E-01  475683.6 3746246.3   469.1     5.00    12.37     1.40
 YES   HRDOW
 B18_17          0   0.22806E-01  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_18          0   0.22806E-01  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_19          0   0.22806E-01  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES   HRDOW
 B18_20          0   0.22806E-01  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_21          0   0.22806E-01  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES   HRDOW
 B18_22          0   0.22806E-01  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES   HRDOW
 B18_23          0   0.22806E-01  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_24          0   0.22806E-01  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES   HRDOW
 B18_25          0   0.22806E-01  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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


                                             *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13        B13_1       , B13_2       ,

  B14        B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,

  B17        B17_1       , B17_2       ,

  B18        B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

             B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
             B18_15      , B18_16      ,

             B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
             B18_23      , B18_24      ,

             B18_25      ,

  ALL        B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

             B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
             B18_5       , B18_6       ,

             B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
             B18_13      , B18_14      ,
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           B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
           B18_21      , B18_22      ,

           B18_23      , B18_24      , B18_25      ,
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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


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

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


            2189641.   B13_1       , B13_2       , B14_1       , B14_2       , B14_3       ,
            B14_4       , B14_5       ,
 B14_6       ,

           B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
           B18_5       , B18_6       ,

           B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
           B18_13      , B18_14      ,

           B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
           B18_21      , B18_22      ,

           B18_23      , B18_24      , B18_25      ,
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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

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

 SOURCE ID = B13_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   13:33:18

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

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

 SOURCE ID = B13_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   13:33:18

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

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

 SOURCE ID = B14_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B14_2   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B14_3   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 = B14_4        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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
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```
                  (HRDOW) *

 SOURCE ID = B14_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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

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

 SOURCE ID = B14_6        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
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Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   13:33:18

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

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

SOURCE ID = B17_1   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
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 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   13:33:18

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

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

SOURCE ID = B17_2   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

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

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

SOURCE ID = B18_1 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

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

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

SOURCE ID = B18_2 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

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

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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

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

 SOURCE ID = B18_3        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

                        PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_4        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = B18_6        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       13:33:18

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

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

SOURCE ID = B18_7        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       13:33:18

                      PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_8        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       13:33:18

                      PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_9        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
```

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



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

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

 SOURCE ID = B18_10       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```



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

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

 SOURCE ID = B18_11       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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

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

 SOURCE ID = B18_12       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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

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

SOURCE ID = B18_13 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -

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

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

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_14 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -

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

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

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

*** *** 13:33:18

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

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

SOURCE ID = B18_15 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
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 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:33:18

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

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

SOURCE ID = B18_16 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

```
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:33:18

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

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

 SOURCE ID = B18_17       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:33:18

                     PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_18       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        13:33:18

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

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

 SOURCE ID = B18_19       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        13:33:18

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

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

 SOURCE ID = B18_20       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_21 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_22 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B18_23 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
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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FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:33:18

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

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

 SOURCE ID = B18_24       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:33:18

                      PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_25       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

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   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        13:33:18

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

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

     ( 476395.7, 3744607.8,     462.5,     462.5,       2.0);         ( 476314.7, 3744669.6,
     463.2,     463.2,       2.0);
     ( 476332.8, 3744655.3,     463.0,     463.0,       2.0);         ( 476366.0, 3744513.7,
     463.2,     463.2,       2.0);
     ( 476245.9, 3744942.5,     463.5,     463.5,       2.0);         ( 476289.5, 3745000.4,
     463.0,     463.0,       2.0);
     ( 476288.5, 3745361.6,     461.2,     461.2,       2.0);         ( 475880.7, 3745148.5,
     468.0,     468.0,       2.0);
     ( 475796.7, 3745058.2,     469.6,     469.6,       2.0);         ( 475750.0, 3745108.9,
     470.0,     470.0,       2.0);
     ( 475798.5, 3745194.1,     469.1,     469.1,       2.0);         ( 475752.4, 3745335.1,
     469.9,     469.9,       2.0);
     ( 475776.9, 3745405.8,     470.0,     470.0,       2.0);         ( 475731.8, 3745293.2,
     470.6,     470.6,       2.0);
     ( 475784.8, 3745574.2,     467.8,     467.8,       2.0);         ( 475709.8, 3745574.8,
     469.3,     469.3,       2.0);
     ( 475708.9, 3745598.8,     469.4,     469.4,       2.0);         ( 475709.4, 3745621.8,
     469.2,     469.2,       2.0);
     ( 475709.4, 3745647.0,     469.0,     469.0,       2.0);         ( 475709.1, 3745668.2,
     469.0,     469.0,       2.0);
     ( 475710.0, 3745693.7,     469.3,     469.3,       2.0);         ( 475709.4, 3745717.0,
     469.4,     469.4,       2.0);
     ( 475709.1, 3745739.8,     469.4,     469.4,       2.0);         ( 475777.8, 3745697.3,
     468.0,     468.0,       2.0);
     ( 475785.3, 3745721.7,     467.8,     467.8,       2.0);         ( 475794.2, 3745802.0,
     467.5,     467.5,       2.0);
     ( 475778.8, 3745842.0,     468.0,     468.0,       2.0);         ( 475800.0, 3745888.8,
     467.3,     467.3,       2.0);
     ( 475790.0, 3745940.2,     467.0,     467.0,       2.0);         ( 475892.2, 3745936.4,
     465.2,     465.2,       2.0);
     ( 475893.3, 3746111.5,     465.0,     465.0,       2.0);         ( 476130.1, 3746085.0,
     462.0,     462.0,       2.0);
     ( 476129.7, 3745935.0,     462.0,     462.0,       2.0);         ( 475595.7, 3746575.8,
     469.1,     469.1,       2.0);
     ( 475911.0, 3746495.7,     464.0,     464.0,       2.0);         ( 475863.3, 3746556.4,
     464.5,     464.5,       2.0);
     ( 475594.2, 3746890.1,     468.4,     468.4,       2.0);         ( 476146.4, 3746600.5,
     460.7,     460.7,       2.0);
     ( 476082.9, 3746873.9,     459.9,     459.9,       2.0);         ( 475609.1, 3746999.9,
     467.0,     467.0,       2.0);
     ( 475745.2, 3747048.2,     464.2,     464.2,       2.0);         ( 475382.0, 3746161.0,
     476.1,     476.1,       2.0);
     ( 475411.0, 3746003.0,     475.3,     475.3,       2.0);         ( 474409.0, 3746437.3,
     518.9,     524.0,       2.0);
     ( 476290.4, 3746244.9,     460.0,     460.0,       2.0);         ( 476339.3, 3746119.1,
     460.0,     460.0,       2.0);
```

```
    ( 476311.4, 3746179.4,     460.0,     460.0,       2.0);         ( 476277.8, 3746288.2,
    460.0,     460.0,       2.0);
    ( 476333.6, 3746432.9,     459.0,     459.0,       2.0);         ( 476384.2, 3745949.3,
    460.0,     460.0,       2.0);
    ( 476360.3, 3745999.4,     460.0,     460.0,       2.0);         ( 476412.9, 3745836.5,
    460.0,     460.0,       2.0);
    ( 476404.8, 3745918.6,     460.0,     460.0,       2.0);         ( 476434.1, 3745820.9,
    460.0,     460.0,       2.0);
    ( 476454.9, 3745720.5,     459.0,     459.0,       2.0);         ( 475797.4, 3744976.8,
    471.0,     471.0,       2.0);
    ( 476060.4, 3744909.2,     466.7,     466.7,       2.0);         ( 475777.3, 3744882.4,
    472.0,     472.0,       2.0);
    ( 475781.9, 3744832.1,     471.9,     471.9,       2.0);         ( 475779.6, 3744791.2,
    472.0,     472.0,       2.0);
    ( 475786.0, 3744729.8,     472.0,     472.0,       2.0);         ( 475774.6, 3744924.7,
    471.8,     471.8,       2.0);
    ( 475782.2, 3744693.9,     472.0,     472.0,       2.0);         ( 475768.2, 3744638.7,
    473.0,     473.0,       2.0);
    ( 475787.2, 3744589.0,     472.1,     472.1,       2.0);         ( 475706.3, 3744502.2,
    473.1,     473.1,       2.0);
    ( 475780.2, 3744427.1,     473.0,     473.0,       2.0);         ( 475764.1, 3744390.6,
    473.5,     473.5,       2.0);
    ( 477060.8, 3744371.8,     455.0,     455.0,       2.0);         ( 476803.5, 3745166.9,
    456.0,     456.0,       2.0);
    ( 477112.7, 3745115.0,     453.6,     453.6,       2.0);         ( 477464.4, 3745086.8,
    450.0,     450.0,       2.0);
    ( 477531.6, 3745005.5,     450.0,     450.0,       2.0);         ( 475715.5, 3746455.6,
    468.1,     468.1,       2.0);
    ( 475792.0, 3746459.3,     466.3,     466.3,       2.0);         ( 475771.3, 3746506.7,
    466.3,     466.3,       2.0);
    ( 475775.2, 3746458.3,     466.7,     466.7,       2.0);         ( 475750.4, 3746454.3,
    467.0,     467.0,       2.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        13:33:18

                        PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                               *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                 (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

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



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
```

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:33:18

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

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

Surface file:
PERI_V9_ADJU\PERI_v9.SFC Met
Version: 16216
Profile file:
PERI_V9_ADJU\PERI_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5

```
10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61   0.64    0.90
351.    9.1  290.4    5.5
10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
186.    9.1  287.5    5.5
10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
275.    9.1  285.9    5.5
10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
181.    9.1  285.4    5.5
10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
318.    9.1  284.9    5.5
10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
196.    9.1  283.1    5.5
10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
330.    9.1  281.4    5.5
10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
332.    9.1  280.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
*** AERMET - VERSION  16216 ***
***                                                                   ***        13:33:18

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

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  B13      ***
                                 INCLUDING SOURCE(S):     B13_1       , B13_2       ,

                                              *** 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)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
       476395.71   3744607.81        7.55890  (11111816)                476314.71
       3744669.61         9.21853  (11111816)
       476332.85   3744655.27        8.89967  (11111816)                476365.97
       3744513.73         5.42192  (14111316)
       476245.90   3744942.48       27.13016  (10121016)                476289.52
       3745000.38        21.50313  (10101916)
       476288.55   3745361.57       21.51882  (10020516)                475880.74
       3745148.55        36.38325  (16010616)
       475796.73   3745058.23       20.40004  (11010316)                475750.05
       3745108.89        17.36976  (16010616)
       475798.54   3745194.08       23.83069  (16010616)                475752.37
       3745335.13        14.08078  (16010616)
       475776.90   3745405.80       11.26196  (10121515)                475731.82
       3745293.23        15.17903  (16010616)
       475784.75   3745574.23       14.14666  (16010516)                475709.78
       3745574.77         8.09390  (16010516)
       475708.88   3745598.80        8.64313  (16010516)                475709.42
       3745621.76         9.18367  (16010516)
       475709.42   3745647.05        9.62224  (16010516)                475709.06
       3745668.21         9.86303  (16010516)
       475709.96   3745693.68       10.08955  (16010516)                475709.42
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      3745717.00       10.09129  (16010516)
      475709.06   3745739.77        9.98506  (16010516)                   475777.75
      3745697.27       12.68418  (16010516)
      475785.29   3745721.66       12.03377  (16010516)                   475794.25
      3745802.05        8.74897  (16010516)
      475778.85   3745842.00        7.60440  (16010516)                   475800.05
      3745888.80        5.40209  (16010516)
      475789.98   3745940.18        4.24723  (16010516)                   475892.19
      3745936.40        4.44797  (10012016)
      475893.32   3746111.50        2.98675  (10012016)                   476130.12
      3746085.01        3.39521  (10120316)
      476129.71   3745935.03        4.64495  (10120316)                   475595.68
      3746575.78        1.42713  (10120216)
      475911.01   3746495.74        1.59841  (14121116)                   475863.30
      3746556.38        1.49800  (14121116)
      475594.25   3746890.12        1.05513  (10012016)                   476146.43
      3746600.47        1.60210  (10120316)
      476082.93   3746873.86        1.17830  (10120316)                   475609.08
      3746999.92        0.94314  (10012016)
      475745.21   3747048.16        0.87462  (14121116)                   475382.02
      3746160.96        3.45341  (16010516)
      475411.04   3746003.05        3.22686  (16010516)                   474409.00
      3746437.28        0.95496  (10121515)
      476290.36   3746244.91        1.95424  (16122315)                   476339.29
      3746119.15        2.45876  (10021916)
      476311.38   3746179.40        2.07618  (10021916)                   476277.82
      3746288.18        1.86399  (16122315)
      476333.63   3746432.95        1.40967  (16122315)                   476384.17
      3745949.30        3.65783  (10122216)
      476360.32   3745999.45        3.03910  (10021916)                   476412.89
      3745836.48        5.04282  (10122216)
      476404.80   3745918.57        4.12320  (10122216)                   476434.06
      3745820.87        5.01276  (10122216)
      476454.86   3745720.49        6.00674  (10020516)                   475797.42
      3744976.75       23.32655  (11010316)
      476060.39   3744909.25       46.40139  (14111116)                   475777.26
      3744882.37       23.86699  (11010316)
      475781.93   3744832.11       22.68167  (11010316)                   475779.60
      3744791.20       19.12920  (11010316)
      475786.02   3744729.84       11.99284  (11010316)                   475774.63
      3744924.73       22.72714  (11010316)
      475782.23   3744693.90        8.54486  (11010316)                   475768.20
      3744638.68        7.62520  (16112816)
      475787.19   3744589.00        6.62005  (16112816)                   475706.26
      3744502.22        5.38912  (16112816)
      475780.18   3744427.13        4.17241  (10113016)                   475764.11
      3744390.61        3.81761  (10113016)
      477060.85   3744371.76        1.61389  (14103116)                   476803.53
      3745166.88        3.87693  (10122916)
      477112.67   3745114.97        1.91491  (10122916)                   477464.43
      3745086.80        1.12412  (10121516)
      477531.57   3745005.51        1.03006  (10121516)                   475715.48
      3746455.63        1.78393  (10012016)
      475791.98   3746459.29        1.74692  (10012016)                   475771.33
      3746506.69        1.64969  (10012016)
      475775.18   3746458.34        1.78051  (10012016)                   475750.42
      3746454.29        1.80915  (10012016)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:33:18

                        PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
```

SOURCE GROUP: B14 ***
INCLUDING SOURCE(S): B14_1 , B14_2 ,
B14_3 , B14_4 , B14_5 ,
B14_6 ,

*** 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)
476395.71	3744607.81	2.87974	(11111816)	476314.71	3744669.61	3.25063	(14111316)
476332.85	3744655.27	3.15581	(14111316)	476365.97	3744513.73	2.44711	(14111316)
476245.90	3744942.48	6.00225	(11111816)	476289.52	3745000.38	7.45898	(11111816)
476288.55	3745361.57	18.63556	(16010716)	475880.74	3745148.55	15.01801	(14111116)
475796.73	3745058.23	7.85325	(10113016)	475750.05	3745108.89	9.28098	(11010316)
475798.54	3745194.08	16.79828	(11010316)	475752.37	3745335.13	52.43690	(11010316)
475776.90	3745405.80	57.77403	(11010316)	475731.82	3745293.23	41.56398	(11010316)
475784.75	3745574.23	72.96160	(16010616)	475709.78	3745574.77	37.07170	(16010616)
475708.88	3745598.80	32.32185	(16010616)	475709.42	3745621.76	27.42573	(16010616)
475709.42	3745647.05	21.77913	(16010616)	475709.06	3745668.21	20.55972	(10121515)
475709.96	3745693.68	19.20040	(10121515)	475709.42	3745717.00	18.40330	(16010516)
475709.06	3745739.77	19.23368	(16010516)	475777.75	3745697.27	35.02677	(16010516)
475785.29	3745721.66	33.22966	(16010516)	475794.25	3745802.05	24.28097	(16010516)
475778.85	3745842.00	20.76511	(16010516)	475800.05	3745888.80	17.06302	(16010516)
475789.98	3745940.18	13.58690	(16010516)	475892.19	3745936.40	8.84577	(14121116)
475893.32	3746111.50	5.52617	(14121116)	476130.12	3746085.01	4.64748	(10021916)
476129.71	3745935.03	8.47822	(10122216)	475595.68	3746575.78	1.98395	(10120216)
475911.01	3746495.74	2.20540	(11121915)	475863.30	3746556.38	2.10974	(14121116)
475594.25	3746890.12	1.44908	(10012016)	476146.43	3746600.47	1.70727	(16122315)
476082.93	3746873.86	1.45617	(10120316)	475609.08	3746999.92	1.25242	(10012016)
475745.21	3747048.16	1.14436	(14121116)	475382.02	3746160.96	3.89259	(16010516)
475411.04	3746003.05	3.94601	(10121515)	474409.00	3746437.28	2.79576	(10121516)
476290.36	3746244.91	3.63163	(10122216)	476339.29	3746119.15	4.67620	(10122216)
476311.38	3746179.40	4.31535	(10122216)	476277.82	3746288.18	3.14793	(10122216)
476333.63	3746432.95	2.36468	(10122216)	476384.17	3745949.30	6.30714	(10020516)
476360.32	3745999.45	6.15484	(10020516)	476412.89	3745836.48	5.77423	(10100416)

476404.80 3745918.57 5.90981 (10020516) 476434.06
3745820.87 6.05221 (10012115)
476454.86 3745720.49 6.65664 (10012115) 475797.42
3744976.75 6.44217 (16011116)
476060.39 3744909.25 5.76874 (10120716) 475777.26
3744882.37 5.06269 (16011116)
475781.93 3744832.11 4.75761 (16011116) 475779.60
3744791.20 4.42826 (16011116)
475786.02 3744729.84 4.08030 (16011116) 475774.63
3744924.73 5.33964 (16011116)
475782.23 3744693.90 3.82102 (16011116) 475768.20
3744638.68 3.41672 (16011116)
475787.19 3744589.00 3.25247 (16011116) 475706.26
3744502.22 2.48074 (16011116)
475780.18 3744427.13 2.50544 (16011116) 475764.11
3744390.61 2.35403 (16011116)
477060.85 3744371.76 1.14296 (10111716) 476803.53
3745166.88 3.35876 (16010716)
477112.67 3745114.97 2.28773 (16010716) 477464.43
3745086.80 1.53302 (16010716)
477531.57 3745005.51 1.36123 (16010716) 475715.48
3746455.63 2.68692 (10012016)
475791.98 3746459.29 2.54053 (14121116) 475771.33
3746506.69 2.35147 (10012016)
475775.18 3746458.34 2.58385 (10012016) 475750.42
3746454.29 2.67295 (10012016)

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

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B17 ***
INCLUDING SOURCE(S): B17_1 , B17_2 ,

*** 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)
- -
476395.71 3744607.81 0.97469 (10112916) 476314.71
3744669.61 1.03612 (16012016)
476332.85 3744655.27 1.01188 (16012016) 476365.97
3744513.73 0.86644 (11120716)
476245.90 3744942.48 1.47039 (16012016) 476289.52
3745000.38 1.57321 (10112916)
476288.55 3745361.57 2.76831 (14111316) 475880.74
3745148.55 2.39009 (14111116)
475796.73 3745058.23 2.07133 (16011116) 475750.05
3745108.89 2.21939 (16011116)
475798.54 3745194.08 2.57781 (16011116) 475752.37
3745335.13 3.04127 (16011116)
475776.90 3745405.80 3.54748 (16011116) 475731.82
3745293.23 2.74869 (16011116)
475784.75 3745574.23 4.66534 (16011116) 475709.78
3745574.77 4.12530 (10113016)
475708.88 3745598.80 4.44801 (10113016) 475709.42
3745621.76 4.75608 (10113016)
475709.42 3745647.05 5.10669 (10113016) 475709.06

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      3745668.21         5.40554  (10113016)
      475709.96   3745693.68         5.86661  (16112816)                475709.42
      3745717.00         6.37793  (16112816)
      475709.06   3745739.77         6.89139  (16112816)                475777.75
      3745697.27         5.54213  (11120516)
      475785.29   3745721.66         5.92212  (10113016)                475794.25
      3745802.05         7.86358  (10113016)
      475778.85   3745842.00         9.01382  (10113016)                475800.05
      3745888.80        10.60675  (10113016)
      475789.98   3745940.18        14.37012  (11010316)                475892.19
      3745936.40        17.28359  (14111116)
      475893.32   3746111.50        61.27622  (11010316)                476130.12
      3746085.01        30.69196  (15120816)
      476129.71   3745935.03        13.68260  (10123016)                475595.68
      3746575.78         8.83126  (10121515)
      475911.01   3746495.74        31.39151  (16010516)                475863.30
      3746556.38        24.09482  (16010516)
      475594.25   3746890.12         8.44859  (16010516)                476146.43
      3746600.47        13.64873  (10122216)
      476082.93   3746873.86         4.73420  (10120316)                475609.08
      3746999.92         5.90107  (16010516)
      475745.21   3747048.16         3.54822  (10012016)                475382.02
      3746160.96         6.94836  (14120316)
      475411.04   3746003.05         9.84313  (10122116)                474409.00
      3746437.28         1.49833  (10122115)
      476290.36   3746244.91        24.31070  (10122916)                476339.29
      3746119.15        15.15127  (16010716)
      476311.38   3746179.40        21.72965  (16010716)                476277.82
      3746288.18        26.69868  (10122916)
      476333.63   3746432.95        13.28879  (10012115)                476384.17
      3745949.30         8.42640  (14103116)
      476360.32   3745999.45        10.33041  (14103116)                476412.89
      3745836.48         5.95811  (16011916)
      476404.80   3745918.57         7.38680  (10120816)                476434.06
      3745820.87         5.59269  (16011916)
      476454.86   3745720.49         4.65680  (14121916)                475797.42
      3744976.75         1.82379  (16011116)
      476060.39   3744909.25         1.60728  (10120716)                475777.26
      3744882.37         1.60654  (16011116)
      475781.93   3744832.11         1.48700  (16011116)                475779.60
      3744791.20         1.40459  (16011116)
      475786.02   3744729.84         1.27680  (16011116)                475774.63
      3744924.73         1.71183  (16011116)
      475782.23   3744693.90         1.21909  (16011116)                475768.20
      3744638.68         1.14931  (16011116)
      475787.19   3744589.00         1.07845  (14111116)                475706.26
      3744502.22         1.01746  (16011116)
      475780.18   3744427.13         0.91040  (10120616)                475764.11
      3744390.61         0.88408  (10120616)
      477060.85   3744371.76         0.96595  (11111816)                476803.53
      3745166.88         1.64633  (10121016)
      477112.67   3745114.97         1.11766  (10111716)                477464.43
      3745086.80         0.78093  (14103116)
      477531.57   3745005.51         0.69541  (14103116)                475715.48
      3746455.63        18.89513  (10121515)
      475791.98   3746459.29        35.88562  (16010516)                475771.33
      3746506.69        28.73105  (16010516)
      475775.18   3746458.34        32.14080  (16010516)                475750.42
      3746454.29        25.59064  (16010516)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B18 ***
INCLUDING SOURCE(S): B18_1 , B18_2 , B18_3 , B18_4 , B18_5 ,
B18_6 , B18_7 , B18_8 , B18_9 , B18_10 ,
B18_11 , B18_12 , B18_13 ,
B18_14 , B18_15 , B18_16 , B18_17 , B18_18 ,
B18_19 , B18_20 , B18_21 ,
B18_22 , B18_23 , B18_24 , B18_25 ,

*** 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)
476395.71	3744607.81	0.97771	(14111316)	476314.71	3744669.61	1.05514	(14111316)
476332.85	3744655.27	1.04074	(14111316)	476365.97	3744513.73	0.88366	(14111316)
476245.90	3744942.48	1.48731	(14111316)	476289.52	3745000.38	1.54909	(11111816)
476288.55	3745361.57	2.83401	(11111816)	475880.74	3745148.55	1.98167	(16012016)
475796.73	3745058.23	1.84617	(10120716)	475750.05	3745108.89	2.17582	(10120716)
475798.54	3745194.08	2.22521	(10121316)	475752.37	3745335.13	3.10220	(10120716)
475776.90	3745405.80	3.33316	(10121316)	475731.82	3745293.23	2.96501	(10120716)
475784.75	3745574.23	4.89520	(10121316)	475709.78	3745574.77	5.43359	(10120716)
475708.88	3745598.80	5.79287	(10120716)	475709.42	3745621.76	6.17083	(10120716)
475709.42	3745647.05	6.63114	(10120716)	475709.06	3745668.21	7.06234	(10120716)
475709.96	3745693.68	7.64749	(10120716)	475709.42	3745717.00	8.29774	(14111116)
475709.06	3745739.77	9.01424	(14111116)	475777.75	3745697.27	6.83735	(10121316)
475785.29	3745721.66	7.27662	(10121316)	475794.25	3745802.05	9.51837	(11122116)
475778.85	3745842.00	11.15112	(11122116)	475800.05	3745888.80	13.28250	(14121016)
475789.98	3745940.18	17.37306	(14121016)	475892.19	3745936.40	16.12993	(11111816)
475893.32	3746111.50	25.59130	(10101916)	476130.12	3746085.01	8.34952	(16010716)
476129.71	3745935.03	6.88924	(14103116)	475595.68	3746575.78	54.72565	(16010516)
475911.01	3746495.74	20.68818	(10020516)	475863.30	3746556.38	23.05272	(10020516)
475594.25	3746890.12	7.47457	(14121116)	476146.43	3746600.47	6.02331	(10012115)
476082.93	3746873.86	5.28007	(10020516)	475609.08	3746999.92	5.32385	(14121116)
475745.21	3747048.16	4.51863	(10120316)	475382.02	3746160.96	18.12696	(11010316)
475411.04	3746003.05	27.35160	(11010316)	474409.00	3746437.28	1.82972	(16010616)
476290.36	3746244.91	5.20404	(10122916)	476339.29	3746119.15	5.61106	(16010716)

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476311.38   3746179.40        5.58356  (16010716)                    476277.82
3746288.18        5.87638  (10122916)
476333.63   3746432.95        3.98269  (10121516)                    476384.17
3745949.30        3.18506  (16010716)
476360.32   3745999.45        4.20404  (16010716)                    476412.89
3745836.48        3.13118  (14103116)
476404.80   3745918.57        2.84525  (11112516)                    476434.06
3745820.87        2.97869  (14103116)
476454.86   3745720.49        2.81607  (14103116)                    475797.42
3744976.75        1.66780  (10120716)
476060.39   3744909.25        1.39666  (10112916)                    475777.26
3744882.37        1.56148  (10120716)
475781.93   3744832.11        1.46320  (10120716)                    475779.60
3744791.20        1.40569  (10120716)
475786.02   3744729.84        1.30345  (10120716)                    475774.63
3744924.73        1.64839  (10120716)
475782.23   3744693.90        1.26545  (10120716)                    475768.20
3744638.68        1.22369  (10120716)
475787.19   3744589.00        1.13456  (10120716)                    475706.26
3744502.22        1.11628  (10120716)
475780.18   3744427.13        0.99383  (10120716)                    475764.11
3744390.61        0.98250  (10120716)
477060.85   3744371.76        0.71149  (10121016)                    476803.53
3745166.88        1.14956  (10111716)
477112.67   3745114.97        0.80041  (10120816)                    477464.43
3745086.80        0.64111  (14123016)
477531.57   3745005.51        0.59856  (14123016)                    475715.48
3746455.63       70.83757  (10121516)
475791.98   3746459.29       66.91471  (10122216)                    475771.33
3746506.69       39.18547  (10122216)
475775.18   3746458.34       67.79134  (10122216)                    475750.42
3746454.29       69.23954  (10122216)
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                         *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP:  ALL      ***
                             INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                             B14_1       , B14_2       , B14_3       ,
              B14_4       , B14_5       , B14_6       , B17_1       , B17_2       ,
              B18_1       , B18_2       , B18_3       ,
              B18_4       , B18_5       , B18_6       , B18_7       , B18_8       ,
              B18_9       , B18_10      , B18_11      ,
              B18_12      , B18_13      , B18_14      , B18_15      , B18_16      ,
              B18_17      , B18_18      ,  . . .      ,

                                        *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
476395.71   3744607.81       11.22691  (11111816)                    476314.71
3744669.61       13.17514  (14111316)
476332.85   3744655.27       12.38336  (14111316)                    476365.97
3744513.73        9.20533  (14111316)
476245.90   3744942.48       32.08233  (15120816)                    476289.52
3745000.38       27.95519  (10121516)
```

476288.55   3745361.57   37.47218 (10121516)   475880.74
3745148.55   38.64628 (16010616)
475796.73   3745058.23   23.89623 (11010316)   475750.05
3745108.89   20.38591 (10121516)
475798.54   3745194.08   27.47289 (10121516)   475752.37
3745335.13   52.77031 (11010316)
475776.90   3745405.80   63.15783 (16010616)   475731.82
3745293.23   41.88817 (11010316)
475784.75   3745574.23   75.40285 (16010616)   475709.78
3745574.77   39.60562 (16010616)
475708.88   3745598.80   34.51487 (16010616)   475709.42
3745621.76   29.39295 (16010616)
475709.42   3745647.05   26.88752 (10121516)   475709.06
3745668.21   26.09609 (10121516)
475709.96   3745693.68   27.34329 (16010516)   475709.42
3745717.00   28.70652 (16010516)
475709.06   3745739.77   29.45138 (16010516)   475777.75
3745697.27   47.92111 (16010516)
475785.29   3745721.66   45.49747 (16010516)   475794.25
3745802.05   33.37010 (16010516)
475778.85   3745842.00   28.77712 (16010516)   475800.05
3745888.80   28.01107 (10121516)
475789.98   3745940.18   30.50537 (10121516)   475892.19
3745936.40   31.25706 (10121516)
475893.32   3746111.50   63.00123 (10121516)   476130.12
3746085.01   39.15154 (10121516)
476129.71   3745935.03   26.43253 (10121516)   475595.68
3746575.78   63.16370 (16010516)
475911.01   3746495.74   38.15283 (10121516)   475863.30
3746556.38   30.65362 (10121516)
475594.25   3746890.12   10.48253 (16010516)   476146.43
3746600.47   17.98355 (10121516)
476082.93   3746873.86   9.71064 (10121516)   475609.08
3746999.92   8.23606 (10012016)
475745.21   3747048.16   7.33472 (10121516)   475382.02
3746160.96   21.31622 (16010616)
475411.04   3746003.05   32.88594 (11010316)   474409.00
3746437.28   6.10233 (10121516)
476290.36   3746244.91   29.56583 (10122916)   476339.29
3746119.15   20.82266 (16010716)
476311.38   3746179.40   27.36592 (16010716)   476277.82
3746288.18   32.62100 (10122916)
476333.63   3746432.95   17.53128 (10121516)   476384.17
3745949.30   16.62748 (10121516)
476360.32   3745999.45   17.73144 (10121516)   476412.89
3745836.48   15.94692 (10121516)
476404.80   3745918.57   15.94161 (10121516)   476434.06
3745820.87   15.40949 (10121516)
476454.86   3745720.49   15.56552 (10121516)   475797.42
3744976.75   24.38150 (11010316)
476060.39   3744909.25   53.33517 (14111116)   475777.26
3744882.37   24.22496 (11010316)
475781.93   3744832.11   22.86920 (11010316)   475779.60
3744791.20   19.26085 (11010316)
475786.02   3744729.84   12.08048 (11010316)   475774.63
3744924.73   23.39455 (11010316)
475782.23   3744693.90   10.26499 (16112816)   475768.20
3744638.68   9.10143 (16112816)
475787.19   3744589.00   7.70481 (16112816)   475706.26
3744502.22   6.58962 (16112816)
475780.18   3744427.13   5.89027 (16011116)   475764.11
3744390.61   5.49100 (16011116)
477060.85   3744371.76   3.21863 (10121516)   476803.53
3745166.88   7.85693 (10121516)
477112.67   3745114.97   4.86174 (10121516)   477464.43
3745086.80   3.26627 (10121516)

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      477531.57   3745005.51       2.99108  (10121516)                475715.48
      3746455.63       87.71697  (16010516)
      475791.98   3746459.29      67.74221  (10122216)                475771.33
      3746506.69       46.79462  (10121516)
      475775.18   3746458.34      72.57372  (10121516)                475750.42
      3746454.29       82.37352  (10121516)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                ***        13:33:18

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

                                *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B13      ***
                                    INCLUDING SOURCE(S):     B13_1       , B13_2       ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
      476395.71   3744607.81       2.89393  (14120116)                476314.71
      3744669.61        3.92400  (14120116)
      476332.85   3744655.27       3.66929  (14120116)                476365.97
      3744513.73        2.28963  (14120116)
      476245.90   3744942.48      12.92418  (14120116)                476289.52
      3745000.38        8.49573c (10102116)
      476288.55   3745361.57       7.96579  (11112416)                475880.74
      3745148.55        7.40074  (14120316)
      475796.73   3745058.23       4.63339  (16110916)                475750.05
      3745108.89        3.64973  (14120316)
      475798.54   3745194.08       5.04597  (14120316)                475752.37
      3745335.13        3.26274  (10121516)
      475776.90   3745405.80       3.32794  (11121216)                475731.82
      3745293.23        3.05608  (10121516)
      475784.75   3745574.23       3.67514  (16010516)                475709.78
      3745574.77        1.97189  (16010516)
      475708.88   3745598.80       2.09915  (16010516)                475709.42
      3745621.76        2.23285  (16010516)
      475709.42   3745647.05       2.34880  (16010516)                475709.06
      3745668.21        2.42008  (16010516)
      475709.96   3745693.68       2.50124  (16010516)                475709.42
      3745717.00        2.53175  (16010516)
      475709.06   3745739.77       2.54352  (16010516)                475777.75
      3745697.27        3.54717  (16010516)
      475785.29   3745721.66       3.53683  (16010516)                475794.25
      3745802.05        3.05312  (16010516)
      475778.85   3745842.00       2.71925  (16010516)                475800.05
      3745888.80        2.39952  (16010516)
      475789.98   3745940.18       2.07013  (16010516)                475892.19
      3745936.40        1.96560  (10012016)
      475893.32   3746111.50       1.27822  (10012016)                476130.12
      3746085.01        1.37489  (11100516)
      476129.71   3745935.03       2.00189  (11100516)                475595.68
      3746575.78        0.60278  (16010516)
      475911.01   3746495.74       0.68417  (10011816)                475863.30
      3746556.38        0.61777  (10011816)
      475594.25   3746890.12       0.44995  (10012016)                476146.43
      3746600.47        0.53725  (11100516)
      476082.93   3746873.86       0.39588  (16122316)                475609.08
```

3746999.92 0.40366 (10012016)
475745.21 3747048.16 0.33379 (10012016) 475382.02
3746160.96 0.78322 (16010516)
475411.04 3746003.05 0.71090 (16010516) 474409.00
3746437.28 0.24747 (10121516)
476290.36 3746244.91 0.79596 (11100516) 476339.29
3746119.15 0.93942 (10100516)
476311.38 3746179.40 0.85011 (14022816) 476277.82
3746288.18 0.76516 (11100516)
476333.63 3746432.95 0.55381 (11100516) 476384.17
3745949.30 1.22378 (10100516)
476360.32 3745999.45 1.17374 (10100516) 476412.89
3745836.48 1.51406 (11030716)
476404.80 3745918.57 1.20634 (10100516) 476434.06
3745820.87 1.56811 (11030716)
476454.86 3745720.49 1.89495 (11030716) 475797.42
3744976.75 4.73360 (10102716)
476060.39 3744909.25 13.01397 (10120616) 475777.26
3744882.37 4.03240 (11010316)
475781.93 3744832.11 3.67268 (11010316) 475779.60
3744791.20 3.11145 (11010316)
475786.02 3744729.84 2.76245 (16121916) 475774.63
3744924.73 4.19220 (10102716)
475782.23 3744693.90 2.45577 (16121916) 475768.20
3744638.68 1.99983 (16121916)
475787.19 3744589.00 1.68940 (11110216) 475706.26
3744502.22 1.23889 (11110216)
475780.18 3744427.13 1.04842 (14112416) 475764.11
3744390.61 0.95263 (14112416)
477060.85 3744371.76 0.56351 (16011916) 476803.53
3745166.88 0.86442 (14040116)
477112.67 3745114.97 0.44776 (14040116) 477464.43
3745086.80 0.24461 (14010316)
477531.57 3745005.51 0.24449 (14040116) 475715.48
3746455.63 0.74929 (10012016)
475791.98 3746459.29 0.72974 (10012016) 475771.33
3746506.69 0.68866 (10012016)
475775.18 3746458.34 0.74035 (10012016) 475750.42
3746454.29 0.75230 (10012016)

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

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B14 ***
INCLUDING SOURCE(S): B14_1 , B14_2 , B14_3 , B14_4 , B14_5 , B14_6 ,

*** 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)
- -
476395.71 3744607.81 1.20241 (14120116) 476314.71
3744669.61 1.31749 (14120116)
476332.85 3744655.27 1.29418 (14120116) 476365.97
3744513.73 0.96674 (14120116)

476245.90 3744942.48 2.74373 (14120116) 476289.52
3745000.38 3.14728 (14120116)
476288.55 3745361.57 5.71802 (15121416) 475880.74
3745148.55 4.23103 (14112416)
475796.73 3745058.23 2.64095 (14112416) 475750.05
3745108.89 3.15862 (16121916)
475798.54 3745194.08 4.85472 (16121916) 475752.37
3745335.13 9.85886 (11010316)
475776.90 3745405.80 14.15941 (10031616) 475731.82
3745293.23 7.37995 (11010316)
475784.75 3745574.23 17.87429 (11121216) 475709.78
3745574.77 7.14921 (11121216)
475708.88 3745598.80 7.15045 (11121216) 475709.42
3745621.76 7.04193 (11121216)
475709.42 3745647.05 6.71206 (11121216) 475709.06
3745668.21 6.33749 (11121216)
475709.96 3745693.68 5.90262 (11121216) 475709.42
3745717.00 5.44416 (11121216)
475709.06 3745739.77 5.50226 (16010516) 475777.75
3745697.27 11.68540 (16010516)
475785.29 3745721.66 11.57829 (16010516) 475794.25
3745802.05 8.98895 (16010516)
475778.85 3745842.00 7.44923 (16010516) 475800.05
3745888.80 6.64962 (16010516)
475789.98 3745940.18 5.42927 (16010516) 475892.19
3745936.40 5.06434 (16010516)
475893.32 3746111.50 2.45602 (10011816) 476130.12
3746085.01 2.32496 (10100516)
476129.71 3745935.03 3.76646 (10100516) 475595.68
3746575.78 0.95284 (16010516)
475911.01 3746495.74 1.01021 (11100516) 475863.30
3746556.38 0.94698 (10011816)
475594.25 3746890.12 0.62253 (10012016) 476146.43
3746600.47 0.78279 (11100516)
476082.93 3746873.86 0.55183 (11100516) 475609.08
3746999.92 0.53887 (10012016)
475745.21 3747048.16 0.47448 (10011816) 475382.02
3746160.96 0.88003 (16010516)
475411.04 3746003.05 1.03241 (10121516) 474409.00
3746437.28 0.51923 (10121516)
476290.36 3746244.91 1.18224 (10100516) 476339.29
3746119.15 1.54015 (11030716)
476311.38 3746179.40 1.30676 (11030716) 476277.82
3746288.18 1.13397 (10100516)
476333.63 3746432.95 0.80675 (10100516) 476384.17
3745949.30 1.96352 (11112416)
476360.32 3745999.45 1.93056 (11030716) 476412.89
3745836.48 1.97591 (10033116)
476404.80 3745918.57 1.92231 (11112416) 476434.06
3745820.87 1.75560 (10033116)
476454.86 3745720.49 1.71053 (14013116) 475797.42
3744976.75 2.01786 (14112416)
476060.39 3744909.25 1.94257 (16120216) 475777.26
3744882.37 1.49479 (14112416)
475781.93 3744832.11 1.30183 (14112416) 475779.60
3744791.20 1.16441 (14112416)
475786.02 3744729.84 0.99034 (14112416) 475774.63
3744924.73 1.68408 (14112416)
475782.23 3744693.90 0.91772 (10120616) 475768.20
3744638.68 0.81233 (10120616)
475787.19 3744589.00 0.79182 (10120616) 475706.26
3744502.22 0.59937 (14112416)
475780.18 3744427.13 0.62622 (10120616) 475764.11
3744390.61 0.58410 (10120616)
477060.85 3744371.76 0.42754 (16011916) 476803.53
3745166.88 0.72832 (14040116)

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      477112.67   3745114.97        0.43019  (16010716)                 477464.43
      3745086.80        0.27561  (16010716)
      477531.57   3745005.51        0.24840  (16010716)                 475715.48
      3746455.63        1.18801  (10012016)
      475791.98   3746459.29        1.11844  (10011816)                 475771.33
      3746506.69        1.02768  (10012016)
      475775.18   3746458.34        1.13251  (10012016)                 475750.42
      3746454.29        1.17201  (10012016)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:33:18

                        PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B17      ***
                                    INCLUDING SOURCE(S):     B17_1       , B17_2       ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        0.37881  (14123116)                 476314.71
      3744669.61        0.40003  (14123116)
      476332.85   3744655.27        0.39698  (14123116)                 476365.97
      3744513.73        0.34521  (16122216)
      476245.90   3744942.48        0.55728  (14123116)                 476289.52
      3745000.38        0.62105  (14123116)
      476288.55   3745361.57        1.05121  (14120116)                 475880.74
      3745148.55        0.63069  (10120616)
      475796.73   3745058.23        0.54522  (10120616)                 475750.05
      3745108.89        0.54428  (10120616)
      475798.54   3745194.08        0.64966  (10120616)                 475752.37
      3745335.13        0.70877  (10120616)
      475776.90   3745405.80        0.83459  (10120616)                 475731.82
      3745293.23        0.63536  (10120616)
      475784.75   3745574.23        1.24438  (14112416)                 475709.78
      3745574.77        1.18576  (14112416)
      475708.88   3745598.80        1.25067  (14112416)                 475709.42
      3745621.76        1.31855  (14112416)
      475709.42   3745647.05        1.39598  (14112416)                 475709.06
      3745668.21        1.47037  (15012816)
      475709.96   3745693.68        1.58692  (15012816)                 475709.42
      3745717.00        1.73484  (11110216)
      475709.06   3745739.77        1.89422  (11110216)                 475777.75
      3745697.27        1.75432  (14112416)
      475785.29   3745721.66        1.90160  (14112416)                 475794.25
      3745802.05        2.47599  (14112416)
      475778.85   3745842.00        2.84978  (11110216)                 475800.05
      3745888.80        3.53822  (11110216)
      475789.98   3745940.18        4.55098  (16121916)                 475892.19
      3745936.40        4.87235  (14112416)
      475893.32   3746111.50       19.98799  (11010316)                 476130.12
      3746085.01       16.36159  (14120116)
      476129.71   3745935.03        6.76277  (14120116)                 475595.68
      3746575.78        2.24486  (11051716)
      475911.01   3746495.74       14.86899  (16010516)                 475863.30
      3746556.38       10.48860  (16010516)
      475594.25   3746890.12        2.39435  (16010516)                 476146.43
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3746600.47 5.10912 (10100516)
476082.93 3746873.86 2.51399 (11100516) 475609.08
3746999.92 2.04797 (16010516)
475745.21 3747048.16 1.66370 (10012016) 475382.02
3746160.96 1.98387 (14120316)
475411.04 3746003.05 2.04511 (16110916) 474409.00
3746437.28 0.32316c (10122116)
476290.36 3746244.91 6.71986 (14040116) 476339.29
3746119.15 4.13421 (14040116)
476311.38 3746179.40 5.86820 (14040116) 476277.82
3746288.18 6.53896 (16030716)
476333.63 3746432.95 3.36669 (14032616) 476384.17
3745949.30 2.88250 (16011916)
476360.32 3745999.45 3.25978 (16011916) 476412.89
3745836.48 2.32707c (10102116)
476404.80 3745918.57 2.60725 (16011916) 476434.06
3745820.87 2.09087c (10102116)
476454.86 3745720.49 1.81682c (10102116) 475797.42
3744976.75 0.49480 (10120616)
476060.39 3744909.25 0.51223 (16122216) 475777.26
3744882.37 0.43987 (10120616)
475781.93 3744832.11 0.41810 (10120616) 475779.60
3744791.20 0.40028 (10120616)
475786.02 3744729.84 0.37666 (10120616) 475774.63
3744924.73 0.45951 (10120616)
475782.23 3744693.90 0.36312 (10120616) 475768.20
3744638.68 0.34333 (10120616)
475787.19 3744589.00 0.32893 (10120616) 475706.26
3744502.22 0.29924 (10120616)
475780.18 3744427.13 0.28671 (10120616) 475764.11
3744390.61 0.27902 (10120616)
477060.85 3744371.76 0.32793 (14120116) 476803.53
3745166.88 0.56321 (14120116)
477112.67 3745114.97 0.41657 (16011916) 477464.43
3745086.80 0.27249 (16011916)
477531.57 3745005.51 0.25855 (16011916) 475715.48
3746455.63 5.50694 (11121216)
475791.98 3746459.29 11.67624 (16010516) 475771.33
3746506.69 9.00587 (16010516)
475775.18 3746458.34 9.96464 (16010516) 475750.42
3746454.29 7.51407 (16010516)

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 13:33:18

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

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B18 ***
INCLUDING SOURCE(S): B18_1 , B18_2 ,
B18_3 , B18_4 , B18_5 ,
B18_6 , B18_7 , B18_8 , B18_9 , B18_10 ,
B18_11 , B18_12 , B18_13 ,
B18_14 , B18_15 , B18_16 , B18_17 , B18_18 ,
B18_19 , B18_20 , B18_21 ,
B18_22 , B18_23 , B18_24 , B18_25 ,

*** 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)

- -
476395.71 3744607.81 0.41829 (14120116) 476314.71
3744669.61 0.42467 (14120116)
476332.85 3744655.27 0.42382 (14120116) 476365.97
3744513.73 0.36516 (14120116)
476245.90 3744942.48 0.59347 (14120116) 476289.52
3745000.38 0.65710 (14120116)
476288.55 3745361.57 0.97129 (14120116) 475880.74
3745148.55 0.72353 (16120216)
475796.73 3745058.23 0.60081 (16120216) 475750.05
3745108.89 0.59452 (16122216)
475798.54 3745194.08 0.75625 (16120216) 475752.37
3745335.13 0.90426 (16120216)
475776.90 3745405.80 1.11415 (16120216) 475731.82
3745293.23 0.78126 (16120216)
475784.75 3745574.23 1.63599 (16120216) 475709.78
3745574.77 1.36926 (11120116)
475708.88 3745598.80 1.46400 (11120116) 475709.42
3745621.76 1.55789 (11120116)
475709.42 3745647.05 1.67443 (11120116) 475709.06
3745668.21 1.78676 (16122216)
475709.96 3745693.68 1.94584 (16122216) 475709.42
3745717.00 2.10722 (10120616)
475709.06 3745739.77 2.29718 (10120616) 475777.75
3745697.27 2.29024 (16120216)
475785.29 3745721.66 2.50008 (14123116) 475794.25
3745802.05 3.46037 (14123116)
475778.85 3745842.00 3.96531 (14123116) 475800.05
3745888.80 4.97808 (14123116)
475789.98 3745940.18 6.60069 (10123016) 475892.19
3745936.40 7.05461 (14120116)
475893.32 3746111.50 10.77629c (10102116) 476130.12
3746085.01 2.29849 (15121416)
476129.71 3745935.03 2.31832 (16011916) 475595.68
3746575.78 23.76996 (16010516)
475911.01 3746495.74 7.33678 (11112416) 475863.30
3746556.38 8.16096 (11112416)
475594.25 3746890.12 3.18659 (10011816) 476146.43
3746600.47 1.58143 (14032616)
476082.93 3746873.86 1.67722 (11030716) 475609.08
3746999.92 2.27074 (10011816)
475745.21 3747048.16 2.04444 (11100516) 475382.02
3746160.96 4.70746 (16110916)
475411.04 3746003.05 4.46606 (11010316) 474409.00
3746437.28 0.41920 (10121516)
476290.36 3746244.91 1.44691 (14040116) 476339.29
3746119.15 1.32060 (14040116)
476311.38 3746179.40 1.45029 (14040116) 476277.82
3746288.18 1.36956 (14040116)
476333.63 3746432.95 0.89085 (16030716) 476384.17
3745949.30 0.96544 (15121416)
476360.32 3745999.45 1.02122 (15121416) 476412.89
3745836.48 0.82099 (15121416)
476404.80 3745918.57 0.90794 (15121416) 476434.06
3745820.87 0.77304 (15121416)
476454.86 3745720.49 0.85132 (16011916) 475797.42
3744976.75 0.55500 (16122216)
476060.39 3744909.25 0.53829 (14123116) 475777.26
3744882.37 0.51278 (16122216)
475781.93 3744832.11 0.49178 (16122216) 475779.60
3744791.20 0.47619 (16122216)
475786.02 3744729.84 0.45782 (16122216) 475774.63
3744924.73 0.52774 (16122216)
475782.23 3744693.90 0.44393 (16122216) 475768.20
3744638.68 0.44632 (16122216)

```
      475787.19   3744589.00        0.42140  (16122216)                475706.26
      3744502.22        0.36419  (16122216)
      475780.18   3744427.13        0.39530  (16122216)                475764.11
      3744390.61        0.38252  (16122216)
      477060.85   3744371.76        0.23373  (14120116)                476803.53
      3745166.88        0.42837  (16011916)
      477112.67   3745114.97        0.30258  (16011916)                477464.43
      3745086.80        0.16546  (10120916)
      477531.57   3745005.51        0.16101  (10120916)                475715.48
      3746455.63       41.99943  (16010516)
      475791.98   3746459.29       28.13652  (11112416)                475771.33
      3746506.69       18.34320  (11100516)
      475775.18   3746458.34       31.33740  (11112416)                475750.42
      3746454.29       35.78404  (11100516)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:33:18

                        PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                                    B14_1       , B14_2       , B14_3       ,
                   B14_4       , B14_5       , B14_6       , B17_1       , B17_2       ,
                   B18_1       , B18_2       , B18_3       ,
                   B18_4       , B18_5       , B18_6       , B18_7       , B18_8       ,
                   B18_9       , B18_10      , B18_11      ,
                   B18_12      , B18_13      , B18_14      , B18_15      , B18_16      ,
                   B18_17      , B18_18      ,  . . .      ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        4.79175  (14120116)                476314.71
      3744669.61        5.91437  (14120116)
      476332.85   3744655.27        5.64201  (14120116)                476365.97
      3744513.73        3.84257  (14120116)
      476245.90   3744942.48       16.59796  (14120116)                476289.52
      3745000.38       12.04201  (14120116)
      476288.55   3745361.57        9.86775  (11112416)                475880.74
      3745148.55       10.53732  (11010316)
      475796.73   3745058.23        6.39644  (11010316)                475750.05
      3745108.89        5.33383c (10122116)
      475798.54   3745194.08        7.13864  (10121516)                475752.37
      3745335.13       11.17668  (11010316)
      475776.90   3745405.80       15.67195  (14120316)                475731.82
      3745293.23        8.64406  (11010316)
      475784.75   3745574.23       20.49958  (11121216)                475709.78
      3745574.77       10.03820  (10121516)
      475708.88   3745598.80        9.71193  (10121516)                475709.42
      3745621.76        9.41755  (10121516)
      475709.42   3745647.05        8.96077  (10121516)                475709.06
      3745668.21        8.49515  (10121516)
      475709.96   3745693.68        7.94230  (10121516)                475709.42
      3745717.00        7.97881  (16010516)
      475709.06   3745739.77        8.22283  (16010516)                475777.75
      3745697.27       15.39210  (16010516)
```

```
      475785.29   3745721.66      15.29301  (16010516)                    475794.25
      3745802.05        12.30290  (16010516)
      475778.85   3745842.00      10.48335  (16010516)                    475800.05
      3745888.80         9.47266  (16010516)
      475789.98   3745940.18       8.46174  (11010316)                    475892.19
      3745936.40         9.23627  (14120116)
      475893.32   3746111.50      22.06313  (11010316)                    476130.12
      3746085.01        17.70345  (14120116)
      476129.71   3745935.03       8.93232  (14120116)                    475595.68
      3746575.78        26.99931  (16010516)
      475911.01   3746495.74      16.49014  (16010516)                    475863.30
      3746556.38        12.45291  (16010516)
      475594.25   3746890.12       5.90076  (16010516)                    476146.43
      3746600.47         6.71633  (11112416)
      476082.93   3746873.86       3.73761  (11100516)                    475609.08
      3746999.92         4.26222  (16010516)
      475745.21   3747048.16       3.50848  (11100516)                    475382.02
      3746160.96         6.72343  (14120316)
      475411.04   3746003.05       5.91433  (16122616)                    474409.00
      3746437.28         1.46605  (10121516)
      476290.36   3746244.91       8.22762  (14040116)                    476339.29
      3746119.15         5.53749  (14040116)
      476311.38   3746179.40       7.39014  (14040116)                    476277.82
      3746288.18         7.74170  (16030716)
      476333.63   3746432.95       4.28538c (10122116)                    476384.17
      3745949.30         3.99832  (16011916)
      476360.32   3745999.45       4.39436  (10110816)                    476412.89
      3745836.48         3.85193  (11112416)
      476404.80   3745918.57       3.74701  (16011916)                    476434.06
      3745820.87         3.60723  (11112416)
      476454.86   3745720.49       3.41005  (11112416)                    475797.42
      3744976.75         6.24019  (11010316)
      476060.39   3744909.25      15.04908  (10120616)                    475777.26
      3744882.37         5.26058  (11010316)
      475781.93   3744832.11       4.77280  (11010316)                    475779.60
      3744791.20         4.11116  (11010316)
      475786.02   3744729.84       3.27081  (16121916)                    475774.63
      3744924.73         5.47930  (11010316)
      475782.23   3744693.90       2.94379  (15012816)                    475768.20
      3744638.68         2.56330  (15012816)
      475787.19   3744589.00       2.46733  (14112416)                    475706.26
      3744502.22         1.90765  (14112416)
      475780.18   3744427.13       1.83505  (14112416)                    475764.11
      3744390.61         1.70311  (14112416)
      477060.85   3744371.76       1.19038  (16011916)                    476803.53
      3745166.88         1.64144  (14040116)
      477112.67   3745114.97       1.02266  (16011916)                    477464.43
      3745086.80         0.73078  (14010816)
      477531.57   3745005.51       0.69319  (14010816)                    475715.48
      3746455.63        48.31104  (16010516)
      475791.98   3746459.29      31.22889  (11112416)                    475771.33
      3746506.69        21.80866  (11100516)
      475775.18   3746458.34      34.23056  (11100516)                    475750.42
      3746454.29        41.59227  (16010516)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                            ***        13:33:18

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

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


                                       ** CONC OF CO       IN
```

```
                                     MICROGRAMS/M**3                          **

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

B13      HIGH   1ST HIGH VALUE IS      46.40139  ON 14111116: AT (  476060.39,  3744909.25,
466.65,   466.65,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS      72.96160  ON 16010616: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS      61.27622  ON 11010316: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS      70.83757  ON 10121516: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS      87.71697  ON 16010516: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        13:33:18

                      PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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


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


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

B13      HIGH   1ST HIGH VALUE IS      13.01397  ON 10120616: AT (  476060.39,  3744909.25,
466.65,   466.65,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS      17.87429  ON 11121216: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS      19.98799  ON 11010316: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS      41.99943  ON 16010516: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS      48.31104  ON 16010516: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC
```

```
 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        13:33:18

                      PAGE  55
 *** 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            4 Warning Message(s)
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W186     667       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     667       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:     14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons NO2\13697 Cons NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons NO2.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
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   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.1574973507     5.000    44.819     1.400
   SRCPARAM B13_2        0.1574973507     5.000    44.819     1.400
   SRCPARAM B14_1        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_2        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_3        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_4        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_5        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_6        0.0524991169     5.000    27.337     1.400
   SRCPARAM B17_1        0.1574973507     5.000    44.726     1.400
   SRCPARAM B17_2        0.1574973507     5.000    44.726     1.400
   SRCPARAM B18_1        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_2        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_3        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_4        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_5        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_6        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_7        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_8        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_9        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_10       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_11       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_12       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_13       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_14       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_15       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_16       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_17       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_18       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_19       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_20       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_21       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_22       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_23       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_24       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_25       0.0125997881     5.000    12.365     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
```

```
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons NO2.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
```

```
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   PLOTFILE 1 ALL 1ST "13697 CONS NO2.AD\1H_ALL.PLT" 31
   PLOTFILE 1 B13 1ST "13697 CONS NO2.AD\1H_B13.PLT" 32
   PLOTFILE 1 B14 1ST "13697 CONS NO2.AD\1H_B14.PLT" 33
   PLOTFILE 1 B17 1ST "13697 CONS NO2.AD\1H_B17.PLT" 34
   PLOTFILE 1 B18 1ST "13697 CONS NO2.AD\1H_B18.PLT" 35
   SUMMFILE "13697 Cons NO2.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
**
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** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons NO2\13697 Cons NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons NO2.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1       VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2       VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1       VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2       VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3       VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4       VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5       VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6       VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1       VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2       VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1       VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2       VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3       VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4       VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5       VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6       VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7       VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8       VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9       VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10      VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11      VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12      VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13      VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14      VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15      VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16      VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17      VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18      VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19      VOLUME     475635.866  3746187.323      469.300
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   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.1574973507     5.000    44.819     1.400
   SRCPARAM B13_2        0.1574973507     5.000    44.819     1.400
   SRCPARAM B14_1        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_2        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_3        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_4        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_5        0.0524991169     5.000    27.337     1.400
   SRCPARAM B14_6        0.0524991169     5.000    27.337     1.400
   SRCPARAM B17_1        0.1574973507     5.000    44.726     1.400
   SRCPARAM B17_2        0.1574973507     5.000    44.726     1.400
   SRCPARAM B18_1        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_2        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_3        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_4        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_5        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_6        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_7        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_8        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_9        0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_10       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_11       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_12       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_13       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_14       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_15       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_16       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_17       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_18       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_19       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_20       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_21       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_22       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_23       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_24       0.0125997881     5.000    12.365     1.400
   SRCPARAM B18_25       0.0125997881     5.000    12.365     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons NO2.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
```

```
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   PLOTFILE 1 ALL 1ST "13697 CONS NO2.AD\1H_ALL.PLT" 31
   PLOTFILE 1 B13 1ST "13697 CONS NO2.AD\1H_B13.PLT" 32
   PLOTFILE 1 B14 1ST "13697 CONS NO2.AD\1H_B14.PLT" 33
   PLOTFILE 1 B17 1ST "13697 CONS NO2.AD\1H_B17.PLT" 34
   PLOTFILE 1 B18 1ST "13697 CONS NO2.AD\1H_B18.PLT" 35
   SUMMFILE "13697 Cons NO2.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     667       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     667       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       14:51:46

                      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
```

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     * 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    35 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: NOX

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

**This Run Includes:     35 Source(s);       5 Source Group(s); and      78 Receptor(s)

             with:      0 POINT(s), including
                        0 POINTCAP(s) and      0 POINTHOR(s)
              and:     35 VOLUME source(s)
              and:      0 AREA type source(s)
              and:      0 LINE source(s)
              and:      0 RLINE/RLINEXT source(s)
              and:      0 OPENPIT source(s)
              and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
              and:      0 SWPOINT source(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

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

**Detailed Error/Message File:   13697 Cons
NO2.err
**File for Summary of Results:   13697 Cons
NO2.sum
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B13_1	0	0.15750E+00	476101.1	3745262.2	464.0	5.00	44.82	1.40	YES	HRDOW
B13_2	0	0.15750E+00	476102.0	3745072.0	465.9	5.00	44.82	1.40	YES	HRDOW
B14_1	0	0.52499E-01	475881.8	3745554.6	466.0	5.00	27.34	1.40	YES	HRDOW
B14_2	0	0.52499E-01	475881.2	3745437.3	468.2	5.00	27.34	1.40	YES	HRDOW
B14_3	0	0.52499E-01	475999.6	3745554.0	464.7	5.00	27.34	1.40	YES	HRDOW
B14_4	0	0.52499E-01	476000.0	3745437.7	465.7	5.00	27.34	1.40	YES	HRDOW
B14_5	0	0.52499E-01	476071.8	3745548.2	464.0	5.00	27.34	1.40	YES	HRDOW
B14_6	0	0.52499E-01	476118.4	3745439.0	463.0	5.00	27.34	1.40	YES	HRDOW
B17_1	0	0.15750E+00	475926.0	3746256.1	465.0	5.00	44.73	1.40	YES	HRDOW
B17_2	0	0.15750E+00	476070.8	3746258.4	463.0	5.00	44.73	1.40	YES	HRDOW
B18_1	0	0.12600E-01	475632.5	3746502.6	469.1	5.00	12.37	1.40	YES	HRDOW
B18_2	0	0.12600E-01	475633.4	3746447.8	469.9	5.00	12.37	1.40	YES	HRDOW
B18_3	0	0.12600E-01	475638.8	3746403.3	469.7	5.00	12.37	1.40	YES	HRDOW
B18_4	0	0.12600E-01	475681.1	3746405.0	469.0	5.00	12.37	1.40	YES	HRDOW
B18_5	0	0.12600E-01	475727.7	3746410.8	467.7	5.00	12.37	1.40	YES	HRDOW
B18_6	0	0.12600E-01	475775.0	3746409.1	466.4	5.00	12.37	1.40	YES	HRDOW
B18_7	0	0.12600E-01	475640.0	3746350.6	469.9	5.00	12.37	1.40	YES	HRDOW
B18_8	0	0.12600E-01	475690.3	3746353.5	469.0	5.00	12.37	1.40	YES	HRDOW
B18_9	0	0.12600E-01	475774.6	3746355.1	467.2	5.00	12.37	1.40	YES	HRDOW
B18_10	0	0.12600E-01	475731.0	3746357.2	468.0	5.00	12.37	1.40	YES	HRDOW
B18_11	0	0.12600E-01	475639.2	3746296.6	469.7	5.00	12.37	1.40	YES	HRDOW
B18_12	0	0.12600E-01	475689.9	3746300.7	469.0	5.00	12.37	1.40	YES	HRDOW
B18_13	0	0.12600E-01	475740.5	3746303.6	468.0	5.00	12.37	1.40	YES	HRDOW
B18_14	0	0.12600E-01	475774.6	3746301.6	467.2	5.00	12.37	1.40	YES	HRDOW
B18_15	0	0.12600E-01	475637.5	3746242.6	469.8	5.00	12.37	1.40	YES	HRDOW
B18_16	0	0.12600E-01	475683.6	3746246.3	469.1	5.00	12.37	1.40		

```
 YES   HRDOW
 B18_17            0   0.12600E-01  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_18            0   0.12600E-01  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_19            0   0.12600E-01  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES   HRDOW
 B18_20            0   0.12600E-01  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_21            0   0.12600E-01  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES   HRDOW
 B18_22            0   0.12600E-01  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES   HRDOW
 B18_23            0   0.12600E-01  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_24            0   0.12600E-01  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES   HRDOW
 B18_25            0   0.12600E-01  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES   HRDOW
```



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


                                             *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13        B13_1       , B13_2       ,

  B14        B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,

  B17        B17_1       , B17_2       ,

  B18        B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

             B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
             B18_15      , B18_16      ,

             B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
             B18_23      , B18_24      ,

             B18_25      ,

  ALL        B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

             B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
             B18_5       , B18_6       ,

             B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
             B18_13      , B18_14      ,

             B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
             B18_21      , B18_22      ,

             B18_23      , B18_24      , B18_25      ,
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 *** AERMET - VERSION  16216 ***
 ***                                                                            ***       14:51:46

                      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


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

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


             2189641.   B13_1       , B13_2       , B14_1       , B14_2       , B14_3       ,
             B14_4       , B14_5       ,
 B14_6       ,

            B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
            B18_5       , B18_6       ,

            B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
            B18_13      , B18_14      ,

            B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
            B18_21      , B18_22      ,

            B18_23      , B18_24      , B18_25      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                            ***       14:51:46

                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B13_1        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = B13_2 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B14_1 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_2       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```



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

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

 SOURCE ID = B14_3       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        14:51:46

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

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

 SOURCE ID = B14_4        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        14:51:46

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

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

 SOURCE ID = B14_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        14:51:46

                        PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_6        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        14:51:46

                        PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

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

SOURCE ID = B17_1 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B17_2 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:51:46

                     PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:51:46

                     PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
```

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


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

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

 SOURCE ID = B18_3       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```


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

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

 SOURCE ID = B18_4       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:51:46

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

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

 SOURCE ID = B18_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:51:46

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

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

 SOURCE ID = B18_6        ; SOURCE TYPE = VOLUME   :
```

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_7 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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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                     PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_8        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:51:46

                     PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_9        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:51:46

                     PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_10       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:51:46

                     PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_11       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_12 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_13 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:51:46

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

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

 SOURCE ID = B18_14       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:51:46

                        PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

(HRDOW) *

SOURCE ID = B18_15 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B18_16 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:51:46

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

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

SOURCE ID = B18_17 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:51:46

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

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

SOURCE ID = B18_18 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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

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

SOURCE ID = B18_19 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

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

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

SOURCE ID = B18_20 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

```
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_21       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_22       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_23 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

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

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

 SOURCE ID = B18_24       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:51:46

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

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

 SOURCE ID = B18_25       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    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

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

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

(476395.7, 3744607.8, 462.5, 462.5, 2.0); (476314.7, 3744669.6, 463.2, 463.2, 2.0);
(476332.8, 3744655.3, 463.0, 463.0, 2.0); (476366.0, 3744513.7, 463.2, 463.2, 2.0);
(476245.9, 3744942.5, 463.5, 463.5, 2.0); (476289.5, 3745000.4, 463.0, 463.0, 2.0);
(476288.5, 3745361.6, 461.2, 461.2, 2.0); (475880.7, 3745148.5, 468.0, 468.0, 2.0);
(475796.7, 3745058.2, 469.6, 469.6, 2.0); (475750.0, 3745108.9, 470.0, 470.0, 2.0);
(475798.5, 3745194.1, 469.1, 469.1, 2.0); (475752.4, 3745335.1, 469.9, 469.9, 2.0);
(475776.9, 3745405.8, 470.0, 470.0, 2.0); (475731.8, 3745293.2, 470.6, 470.6, 2.0);
(475784.8, 3745574.2, 467.8, 467.8, 2.0); (475709.8, 3745574.8, 469.3, 469.3, 2.0);
(475708.9, 3745598.8, 469.4, 469.4, 2.0); (475709.4, 3745621.8, 469.2, 469.2, 2.0);
(475709.4, 3745647.0, 469.0, 469.0, 2.0); (475709.1, 3745668.2, 469.0, 469.0, 2.0);
(475710.0, 3745693.7, 469.3, 469.3, 2.0); (475709.4, 3745717.0, 469.4, 469.4, 2.0);
(475709.1, 3745739.8, 469.4, 469.4, 2.0); (475777.8, 3745697.3, 468.0, 468.0, 2.0);
(475785.3, 3745721.7, 467.8, 467.8, 2.0); (475794.2, 3745802.0, 467.5, 467.5, 2.0);
(475778.8, 3745842.0, 468.0, 468.0, 2.0); (475800.0, 3745888.8, 467.3, 467.3, 2.0);
(475790.0, 3745940.2, 467.0, 467.0, 2.0); (475892.2, 3745936.4, 465.2, 465.2, 2.0);
(475893.3, 3746111.5, 465.0, 465.0, 2.0); (476130.1, 3746085.0, 462.0, 462.0, 2.0);
(476129.7, 3745935.0, 462.0, 462.0, 2.0); (475595.7, 3746575.8, 469.1, 469.1, 2.0);
(475911.0, 3746495.7, 464.0, 464.0, 2.0); (475863.3, 3746556.4, 464.5, 464.5, 2.0);
(475594.2, 3746890.1, 468.4, 468.4, 2.0); (476146.4, 3746600.5, 460.7, 460.7, 2.0);
(476082.9, 3746873.9, 459.9, 459.9, 2.0); (475609.1, 3746999.9, 467.0, 467.0, 2.0);
(475745.2, 3747048.2, 464.2, 464.2, 2.0); (475382.0, 3746161.0, 476.1, 476.1, 2.0);
(475411.0, 3746003.0, 475.3, 475.3, 2.0); (474409.0, 3746437.3, 518.9, 524.0, 2.0);
(476290.4, 3746244.9, 460.0, 460.0, 2.0); (476339.3, 3746119.1, 460.0, 460.0, 2.0);
(476311.4, 3746179.4, 460.0, 460.0, 2.0); (476277.8, 3746288.2, 460.0, 460.0, 2.0);
(476333.6, 3746432.9, 459.0, 459.0, 2.0); (476384.2, 3745949.3, 460.0, 460.0, 2.0);
(476360.3, 3745999.4, 460.0, 460.0, 2.0); (476412.9, 3745836.5, 460.0, 460.0, 2.0);

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    ( 476404.8, 3745918.6,     460.0,     460.0,       2.0);         ( 476434.1, 3745820.9,
    460.0,     460.0,       2.0);
    ( 476454.9, 3745720.5,     459.0,     459.0,       2.0);         ( 475797.4, 3744976.8,
    471.0,     471.0,       2.0);
    ( 476060.4, 3744909.2,     466.7,     466.7,       2.0);         ( 475777.3, 3744882.4,
    472.0,     472.0,       2.0);
    ( 475781.9, 3744832.1,     471.9,     471.9,       2.0);         ( 475779.6, 3744791.2,
    472.0,     472.0,       2.0);
    ( 475786.0, 3744729.8,     472.0,     472.0,       2.0);         ( 475774.6, 3744924.7,
    471.8,     471.8,       2.0);
    ( 475782.2, 3744693.9,     472.0,     472.0,       2.0);         ( 475768.2, 3744638.7,
    473.0,     473.0,       2.0);
    ( 475787.2, 3744589.0,     472.1,     472.1,       2.0);         ( 475706.3, 3744502.2,
    473.1,     473.1,       2.0);
    ( 475780.2, 3744427.1,     473.0,     473.0,       2.0);         ( 475764.1, 3744390.6,
    473.5,     473.5,       2.0);
    ( 477060.8, 3744371.8,     455.0,     455.0,       2.0);         ( 476803.5, 3745166.9,
    456.0,     456.0,       2.0);
    ( 477112.7, 3745115.0,     453.6,     453.6,       2.0);         ( 477464.4, 3745086.8,
    450.0,     450.0,       2.0);
    ( 477531.6, 3745005.5,     450.0,     450.0,       2.0);         ( 475715.5, 3746455.6,
    468.1,     468.1,       2.0);
    ( 475792.0, 3746459.3,     466.3,     466.3,       2.0);         ( 475771.3, 3746506.7,
    466.3,     466.3,       2.0);
    ( 475775.2, 3746458.3,     466.7,     466.7,       2.0);         ( 475750.4, 3746454.3,
    467.0,     467.0,       2.0);
```



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

                                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                  (1=YES; 0=NO)

             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

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



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                               (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
```

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

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

Surface file:
PERI_V9_ADJU\PERI_v9.SFC Met
Version: 16216
Profile file:
PERI_V9_ADJU\PERI_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5

```
 10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
 181.    9.1  285.4    5.5
 10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
 318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:51:46

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

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B13      ***
                                    INCLUDING SOURCE(S):     B13_1       , B13_2       ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
        476395.71   3744607.81        4.17619  (11111816)                476314.71
        3744669.61        5.09311  (11111816)
        476332.85   3744655.27        4.91695  (11111816)                476365.97
        3744513.73        2.99554  (14111316)
        476245.90   3744942.48       14.98904  (10121016)                476289.52
        3745000.38       11.88018  (10101916)
        476288.55   3745361.57       11.88885  (10020516)                475880.74
        3745148.55       20.10125  (16010616)
        475796.73   3745058.23       11.27074  (11010316)                475750.05
        3745108.89        9.59656  (16010616)
        475798.54   3745194.08       13.16613  (16010616)                475752.37
        3745335.13        7.77943  (16010616)
        475776.90   3745405.80        6.22208  (10121515)                475731.82
        3745293.23        8.38620  (16010616)
        475784.75   3745574.23        7.81584  (16010516)                475709.78
        3745574.77        4.47177  (16010516)
        475708.88   3745598.80        4.77521  (16010516)                475709.42
        3745621.76        5.07385  (16010516)
        475709.42   3745647.05        5.31615  (16010516)                475709.06
        3745668.21        5.44919  (16010516)
        475709.96   3745693.68        5.57434  (16010516)                475709.42
        3745717.00        5.57530  (16010516)
        475709.06   3745739.77        5.51661  (16010516)                475777.75
        3745697.27        7.00783  (16010516)
        475785.29   3745721.66        6.64849  (16010516)                475794.25
        3745802.05        4.83369  (16010516)
        475778.85   3745842.00        4.20133  (16010516)                475800.05
```

3745888.80 2.98458 (16010516)
475789.98 3745940.18 2.34653 (16010516) 475892.19
3745936.40 2.45744 (10012016)
475893.32 3746111.50 1.65014 (10012016) 476130.12
3746085.01 1.87581 (10120316)
476129.71 3745935.03 2.56627 (10120316) 475595.68
3746575.78 0.78847 (10120216)
475911.01 3746495.74 0.88310 (14121116) 475863.30
3746556.38 0.82762 (14121116)
475594.25 3746890.12 0.58295 (10012016) 476146.43
3746600.47 0.88514 (10120316)
476082.93 3746873.86 0.65100 (10120316) 475609.08
3746999.92 0.52107 (10012016)
475745.21 3747048.16 0.48322 (14121116) 475382.02
3746160.96 1.90796 (16010516)
475411.04 3746003.05 1.78280 (16010516) 474409.00
3746437.28 0.52760 (10121515)
476290.36 3746244.91 1.07969 (16122315) 476339.29
3746119.15 1.35843 (10021916)
476311.38 3746179.40 1.14706 (10021916) 476277.82
3746288.18 1.02983 (16122315)
476333.63 3746432.95 0.77882 (16122315) 476384.17
3745949.30 2.02090 (10122216)
476360.32 3745999.45 1.67906 (10021916) 476412.89
3745836.48 2.78609 (10122216)
476404.80 3745918.57 2.27801 (10122216) 476434.06
3745820.87 2.76948 (10122216)
476454.86 3745720.49 3.31864 (10020516) 475797.42
3744976.75 12.88760 (11010316)
476060.39 3744909.25 25.63613 (14111116) 475777.26
3744882.37 13.18618 (11010316)
475781.93 3744832.11 12.53131 (11010316) 475779.60
3744791.20 10.56862 (11010316)
475786.02 3744729.84 6.62588 (11010316) 475774.63
3744924.73 12.55643 (11010316)
475782.23 3744693.90 4.72092 (11010316) 475768.20
3744638.68 4.21282 (16112816)
475787.19 3744589.00 3.65748 (16112816) 475706.26
3744502.22 2.97742 (16112816)
475780.18 3744427.13 2.30520 (10113016) 475764.11
3744390.61 2.10918 (10113016)
477060.85 3744371.76 0.89165 (14103116) 476803.53
3745166.88 2.14195 (10122916)
477112.67 3745114.97 1.05796 (10122916) 477464.43
3745086.80 0.62106 (10121516)
477531.57 3745005.51 0.56910 (10121516) 475715.48
3746455.63 0.98560 (10012016)
475791.98 3746459.29 0.96515 (10012016) 475771.33
3746506.69 0.91143 (10012016)
475775.18 3746458.34 0.98371 (10012016) 475750.42
3746454.29 0.99953 (10012016)

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

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B14 ***
INCLUDING SOURCE(S): B14_1 , B14_2 ,
B14_3 , B14_4 , B14_5 ,
B14_6 ,

*** 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)
476395.71	3744607.81	1.59101	(11111816)	476314.71	3744669.61	1.79593	(14111316)
476332.85	3744655.27	1.74354	(14111316)	476365.97	3744513.73	1.35200	(14111316)
476245.90	3744942.48	3.31616	(11111816)	476289.52	3745000.38	4.12098	(11111816)
476288.55	3745361.57	10.29589	(16010716)	475880.74	3745148.55	8.29724	(14111116)
475796.73	3745058.23	4.33881	(10113016)	475750.05	3745108.89	5.12761	(11010316)
475798.54	3745194.08	9.28082	(11010316)	475752.37	3745335.13	28.97066	(11010316)
475776.90	3745405.80	31.91936	(11010316)	475731.82	3745293.23	22.96352	(11010316)
475784.75	3745574.23	40.31028	(16010616)	475709.78	3745574.77	20.48160	(16010616)
475708.88	3745598.80	17.85738	(16010616)	475709.42	3745621.76	15.15234	(16010616)
475709.42	3745647.05	12.03267	(16010616)	475709.06	3745668.21	11.35896	(10121515)
475709.96	3745693.68	10.60795	(10121515)	475709.42	3745717.00	10.16757	(16010516)
475709.06	3745739.77	10.62634	(16010516)	475777.75	3745697.27	19.35181	(16010516)
475785.29	3745721.66	18.35893	(16010516)	475794.25	3745802.05	13.41490	(16010516)
475778.85	3745842.00	11.47243	(16010516)	475800.05	3745888.80	9.42709	(16010516)
475789.98	3745940.18	7.50658	(16010516)	475892.19	3745936.40	4.88716	(14121116)
475893.32	3746111.50	3.05313	(14121116)	476130.12	3746085.01	2.56767	(10021916)
476129.71	3745935.03	4.68410	(10122216)	475595.68	3746575.78	1.09610	(10120216)
475911.01	3746495.74	1.21845	(11121915)	475863.30	3746556.38	1.16560	(14121116)
475594.25	3746890.12	0.80060	(10012016)	476146.43	3746600.47	0.94324	(16122315)
476082.93	3746873.86	0.80451	(10120316)	475609.08	3746999.92	0.69194	(10012016)
475745.21	3747048.16	0.63224	(14121116)	475382.02	3746160.96	2.15060	(16010516)
475411.04	3746003.05	2.18012	(10121515)	474409.00	3746437.28	1.54462	(10121516)
476290.36	3746244.91	2.00642	(10122216)	476339.29	3746119.15	2.58354	(10122216)
476311.38	3746179.40	2.38417	(10122216)	476277.82	3746288.18	1.73919	(10122216)
476333.63	3746432.95	1.30645	(10122216)	476384.17	3745949.30	3.48461	(10020516)
476360.32	3745999.45	3.40046	(10020516)	476412.89	3745836.48	3.19018	(10100416)
476404.80	3745918.57	3.26509	(10020516)	476434.06	3745820.87	3.34376	(10012115)
476454.86	3745720.49	3.67770	(10012115)	475797.42	3744976.75	3.55921	(16011116)
476060.39	3744909.25	3.18715	(10120716)	475777.26	3744882.37	2.79706	(16011116)

475781.93 3744832.11 2.62851 (16011116) 475779.60
3744791.20 2.44655 (16011116)
475786.02 3744729.84 2.25431 (16011116) 475774.63
3744924.73 2.95008 (16011116)
475782.23 3744693.90 2.11106 (16011116) 475768.20
3744638.68 1.88769 (16011116)
475787.19 3744589.00 1.79694 (16011116) 475706.26
3744502.22 1.37057 (16011116)
475780.18 3744427.13 1.38422 (16011116) 475764.11
3744390.61 1.30057 (16011116)
477060.85 3744371.76 0.63147 (10111716) 476803.53
3745166.88 1.85567 (16010716)
477112.67 3745114.97 1.26394 (16010716) 477464.43
3745086.80 0.84697 (16010716)
477531.57 3745005.51 0.75206 (16010716) 475715.48
3746455.63 1.48449 (10012016)
475791.98 3746459.29 1.40361 (14121116) 475771.33
3746506.69 1.29915 (10012016)
475775.18 3746458.34 1.42754 (10012016) 475750.42
3746454.29 1.47677 (10012016)

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

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B17 ***
INCLUDING SOURCE(S): B17_1 , B17_2 ,

*** 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)
- -
476395.71 3744607.81 0.53850 (10112916) 476314.71
3744669.61 0.57244 (16012016)
476332.85 3744655.27 0.55905 (16012016) 476365.97
3744513.73 0.47870 (11120716)
476245.90 3744942.48 0.81237 (16012016) 476289.52
3745000.38 0.86917 (10112916)
476288.55 3745361.57 1.52945 (14111316) 475880.74
3745148.55 1.32049 (14111116)
475796.73 3745058.23 1.14438 (16011116) 475750.05
3745108.89 1.22618 (16011116)
475798.54 3745194.08 1.42420 (16011116) 475752.37
3745335.13 1.68026 (16011116)
475776.90 3745405.80 1.95993 (16011116) 475731.82
3745293.23 1.51861 (16011116)
475784.75 3745574.23 2.57753 (16011116) 475709.78
3745574.77 2.27917 (10113016)
475708.88 3745598.80 2.45747 (10113016) 475709.42
3745621.76 2.62767 (10113016)
475709.42 3745647.05 2.82138 (10113016) 475709.06
3745668.21 2.98649 (10113016)
475709.96 3745693.68 3.24122 (16112816) 475709.42
3745717.00 3.52372 (16112816)
475709.06 3745739.77 3.80740 (16112816) 475777.75
3745697.27 3.06195 (11120516)
475785.29 3745721.66 3.27189 (10113016) 475794.25

3745802.05 4.34452 (10113016)
475778.85 3745842.00 4.98001 (10113016) 475800.05
3745888.80 5.86008 (10113016)
475789.98 3745940.18 7.93929 (11010316) 475892.19
3745936.40 9.54895 (14111116)
475893.32 3746111.50 33.85427 (11010316) 476130.12
3746085.01 16.95688 (15120816)
476129.71 3745935.03 7.55945 (10123016) 475595.68
3746575.78 4.87915 (10121515)
475911.01 3746495.74 17.34338 (16010516) 475863.30
3746556.38 13.31206 (16010516)
475594.25 3746890.12 4.66773 (16010516) 476146.43
3746600.47 7.54074 (10122216)
476082.93 3746873.86 2.61558 (10120316) 475609.08
3746999.92 3.26026 (16010516)
475745.21 3747048.16 1.96034 (10012016) 475382.02
3746160.96 3.83887 (14120316)
475411.04 3746003.05 5.43819 (10122116) 474409.00
3746437.28 0.82781 (10122115)
476290.36 3746244.91 13.43133 (10122916) 476339.29
3746119.15 8.37087 (16010716)
476311.38 3746179.40 12.00533 (16010716) 476277.82
3746288.18 14.75065 (10122916)
476333.63 3746432.95 7.34187 (10012115) 476384.17
3745949.30 4.65547 (14103116)
476360.32 3745999.45 5.70741 (14103116) 476412.89
3745836.48 3.29178 (16011916)
476404.80 3745918.57 4.08111 (10120816) 476434.06
3745820.87 3.08988 (16011916)
476454.86 3745720.49 2.57282 (14121916) 475797.42
3744976.75 1.00762 (16011116)
476060.39 3744909.25 0.88800 (10120716) 475777.26
3744882.37 0.88759 (16011116)
475781.93 3744832.11 0.82154 (16011116) 475779.60
3744791.20 0.77602 (16011116)
475786.02 3744729.84 0.70542 (16011116) 475774.63
3744924.73 0.94576 (16011116)
475782.23 3744693.90 0.67353 (16011116) 475768.20
3744638.68 0.63498 (16011116)
475787.19 3744589.00 0.59583 (14111116) 475706.26
3744502.22 0.56213 (16011116)
475780.18 3744427.13 0.50298 (10120616) 475764.11
3744390.61 0.48844 (10120616)
477060.85 3744371.76 0.53368 (11111816) 476803.53
3745166.88 0.90958 (10121016)
477112.67 3745114.97 0.61749 (10111716) 477464.43
3745086.80 0.43145 (14103116)
477531.57 3745005.51 0.38421 (14103116) 475715.48
3746455.63 10.43930 (10121515)
475791.98 3746459.29 19.82631 (16010516) 475771.33
3746506.69 15.87351 (16010516)
475775.18 3746458.34 17.75735 (16010516) 475750.42
3746454.29 14.13847 (16010516)

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

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B18 ***
INCLUDING SOURCE(S): B18_1 , B18_2 ,
B18_3 , B18_4 , B18_5 ,
B18_6 , B18_7 , B18_8 , B18_9 , B18_10 ,

B18_11 , B18_12 , B18_13 ,
B18_14 , B18_15 , B18_16 , B18_17 , B18_18 ,
B18_19 , B18_20 , B18_21 ,
B18_22 , B18_23 , B18_24 , B18_25 ,

*** 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)
476395.71	3744607.81	0.54017	(14111316)	476314.71	3744669.61	0.58295	(14111316)
476332.85	3744655.27	0.57500	(14111316)	476365.97	3744513.73	0.48821	(14111316)
476245.90	3744942.48	0.82172	(14111316)	476289.52	3745000.38	0.85585	(11111816)
476288.55	3745361.57	1.56575	(11111816)	475880.74	3745148.55	1.09485	(16012016)
475796.73	3745058.23	1.01999	(10120716)	475750.05	3745108.89	1.20211	(10120716)
475798.54	3745194.08	1.22940	(10121316)	475752.37	3745335.13	1.71392	(10120716)
475776.90	3745405.80	1.84152	(10121316)	475731.82	3745293.23	1.63813	(10120716)
475784.75	3745574.23	2.70453	(10121316)	475709.78	3745574.77	3.00198	(10120716)
475708.88	3745598.80	3.20048	(10120716)	475709.42	3745621.76	3.40930	(10120716)
475709.42	3745647.05	3.66361	(10120716)	475709.06	3745668.21	3.90185	(10120716)
475709.96	3745693.68	4.22513	(10120716)	475709.42	3745717.00	4.58439	(14111116)
475709.06	3745739.77	4.98024	(14111116)	475777.75	3745697.27	3.77754	(10121316)
475785.29	3745721.66	4.02023	(10121316)	475794.25	3745802.05	5.25877	(11122116)
475778.85	3745842.00	6.16084	(11122116)	475800.05	3745888.80	7.33840	(14121016)
475789.98	3745940.18	9.59837	(14121016)	475892.19	3745936.40	8.91156	(11111816)
475893.32	3746111.50	14.13884	(10101916)	476130.12	3746085.01	4.61300	(16010716)
476129.71	3745935.03	3.80621	(14103116)	475595.68	3746575.78	30.23517	(16010516)
475911.01	3746495.74	11.42994	(10020516)	475863.30	3746556.38	12.73631	(10020516)
475594.25	3746890.12	4.12960	(14121116)	476146.43	3746600.47	3.32780	(10012115)
476082.93	3746873.86	2.91717	(10020516)	475609.08	3746999.92	2.94135	(14121116)
475745.21	3747048.16	2.49648	(10120316)	475382.02	3746160.96	10.01489	(11010316)
475411.04	3746003.05	15.11138	(11010316)	474409.00	3746437.28	1.01089	(16010616)
476290.36	3746244.91	2.87516	(10122916)	476339.29	3746119.15	3.10003	(16010716)
476311.38	3746179.40	3.08484	(16010716)	476277.82	3746288.18	3.24662	(10122916)
476333.63	3746432.95	2.20038	(10121516)	476384.17	3745949.30	1.75970	(16010716)
476360.32	3745999.45	2.32267	(16010716)	476412.89	3745836.48	1.72994	(14103116)

```
       476404.80   3745918.57        1.57196  (11112516)                     476434.06
       3745820.87        1.64569  (14103116)
       476454.86   3745720.49        1.55584  (14103116)                     475797.42
       3744976.75        0.92144  (10120716)
       476060.39   3744909.25        0.77164  (10112916)                     475777.26
       3744882.37        0.86270  (10120716)
       475781.93   3744832.11        0.80840  (10120716)                     475779.60
       3744791.20        0.77662  (10120716)
       475786.02   3744729.84        0.72014  (10120716)                     475774.63
       3744924.73        0.91071  (10120716)
       475782.23   3744693.90        0.69914  (10120716)                     475768.20
       3744638.68        0.67607  (10120716)
       475787.19   3744589.00        0.62683  (10120716)                     475706.26
       3744502.22        0.61673  (10120716)
       475780.18   3744427.13        0.54908  (10120716)                     475764.11
       3744390.61        0.54282  (10120716)
       477060.85   3744371.76        0.39309  (10121016)                     476803.53
       3745166.88        0.63512  (10111716)
       477112.67   3745114.97        0.44222  (10120816)                     477464.43
       3745086.80        0.35420  (14123016)
       477531.57   3745005.51        0.33069  (14123016)                     475715.48
       3746455.63       39.13678  (10121516)
       475791.98   3746459.29       36.96945  (10122216)                     475771.33
       3746506.69       21.64943  (10122216)
       475775.18   3746458.34       37.45378  (10122216)                     475750.42
       3746454.29       38.25389  (10122216)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:51:46

                    PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                                B14_1       , B14_2       , B14_3       ,
                B14_4       , B14_5       , B14_6       , B17_1       , B17_2       ,
                B18_1       , B18_2       , B18_3       ,
                B18_4       , B18_5       , B18_6       , B18_7       , B18_8       ,
                B18_9       , B18_10      , B18_11      ,
                B18_12      , B18_13      , B18_14      , B18_15      , B18_16      ,
                B18_17      , B18_18      ,  . . .      ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       476395.71   3744607.81        6.20271  (11111816)                     476314.71
       3744669.61        7.27909  (14111316)
       476332.85   3744655.27        6.84164  (14111316)                     476365.97
       3744513.73        5.08582  (14111316)
       476245.90   3744942.48       17.72504  (15120816)                     476289.52
       3745000.38       15.44486  (10121516)
       476288.55   3745361.57       20.70286  (10121516)                     475880.74
       3745148.55       21.35154  (16010616)
       475796.73   3745058.23       13.20233  (11010316)                     475750.05
       3745108.89       11.26293  (10121516)
       475798.54   3745194.08       15.17839  (10121516)                     475752.37
       3745335.13       29.15487  (11010316)
```

475776.90 3745405.80 34.89383 (16010616) 475731.82
3745293.23 23.14263 (11010316)
475784.75 3745574.23 41.65903 (16010616) 475709.78
3745574.77 21.88156 (16010616)
475708.88 3745598.80 19.06899 (16010616) 475709.42
3745621.76 16.23920 (16010616)
475709.42 3745647.05 14.85498 (10121516) 475709.06
3745668.21 14.41773 (10121516)
475709.96 3745693.68 15.10679 (16010516) 475709.42
3745717.00 15.85996 (16010516)
475709.06 3745739.77 16.27148 (16010516) 475777.75
3745697.27 26.47575 (16010516)
475785.29 3745721.66 25.13672 (16010516) 475794.25
3745802.05 18.43652 (16010516)
475778.85 3745842.00 15.89896 (16010516) 475800.05
3745888.80 15.47573 (10121516)
475789.98 3745940.18 16.85379 (10121516) 475892.19
3745936.40 17.26909 (10121516)
475893.32 3746111.50 34.80731 (10121516) 476130.12
3746085.01 21.63069 (10121516)
476129.71 3745935.03 14.60361 (10121516) 475595.68
3746575.78 34.89707 (16010516)
475911.01 3746495.74 21.07891 (10121516) 475863.30
3746556.38 16.93570 (10121516)
475594.25 3746890.12 5.79146 (16010516) 476146.43
3746600.47 9.93566 (10121516)
476082.93 3746873.86 5.36499 (10121516) 475609.08
3746999.92 4.55031 (10012016)
475745.21 3747048.16 4.05233 (10121516) 475382.02
3746160.96 11.77692 (16010616)
475411.04 3746003.05 18.16903 (11010316) 474409.00
3746437.28 3.37145 (10121516)
476290.36 3746244.91 16.33471 (10122916) 476339.29
3746119.15 11.50423 (16010716)
476311.38 3746179.40 15.11929 (16010716) 476277.82
3746288.18 18.02265 (10122916)
476333.63 3746432.95 9.68579 (10121516) 476384.17
3745949.30 9.18646 (10121516)
476360.32 3745999.45 9.79638 (10121516) 476412.89
3745836.48 8.81045 (10121516)
476404.80 3745918.57 8.80752 (10121516) 476434.06
3745820.87 8.51353 (10121516)
476454.86 3745720.49 8.59974 (10121516) 475797.42
3744976.75 13.47044 (11010316)
476060.39 3744909.25 29.46694 (14111116) 475777.26
3744882.37 13.38396 (11010316)
475781.93 3744832.11 12.63492 (11010316) 475779.60
3744791.20 10.64135 (11010316)
475786.02 3744729.84 6.67430 (11010316) 475774.63
3744924.73 12.92516 (11010316)
475782.23 3744693.90 5.67126 (16112816) 475768.20
3744638.68 5.02842 (16112816)
475787.19 3744589.00 4.25680 (16112816) 475706.26
3744502.22 3.64067 (16112816)
475780.18 3744427.13 3.25429 (16011116) 475764.11
3744390.61 3.03370 (16011116)
477060.85 3744371.76 1.77825 (10121516) 476803.53
3745166.88 4.34084 (10121516)
477112.67 3745114.97 2.68604 (10121516) 477464.43
3745086.80 1.80457 (10121516)
477531.57 3745005.51 1.65253 (10121516) 475715.48
3746455.63 48.46242 (16010516)
475791.98 3746459.29 37.42664 (10122216) 475771.33
3746506.69 25.85338 (10121516)
475775.18 3746458.34 40.09598 (10121516) 475750.42
3746454.29 45.51023 (10121516)

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:51:46

PAGE 48
*** 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)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
B13	HIGH	1ST HIGH VALUE IS	25.63613	ON 14111116:	AT (476060.39, 3744909.25, 466.65, 466.65, 2.00)	DC	
B14	HIGH	1ST HIGH VALUE IS	40.31028	ON 16010616:	AT (475784.75, 3745574.23, 467.84, 467.84, 2.00)	DC	
B17	HIGH	1ST HIGH VALUE IS	33.85427	ON 11010316:	AT (475893.32, 3746111.50, 465.00, 465.00, 2.00)	DC	
B18	HIGH	1ST HIGH VALUE IS	39.13678	ON 10121516:	AT (475715.48, 3746455.63, 468.10, 468.10, 2.00)	DC	
ALL	HIGH	1ST HIGH VALUE IS	48.46242	ON 16010516:	AT (475715.48, 3746455.63, 468.10, 468.10, 2.00)	DC	

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

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 14:51:46

PAGE 49
*** 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 4 Warning Message(s)
A Total of 2028 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 978 Calm Hours Identified

A Total of 1050 Missing Hours Identified (2.40 Percent)

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

```
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     667       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187     667       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:      14010101
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons PM2_5\13697 Cons PM2_5.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons PM2_5.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
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   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
   LOCATION B13DUST      AREAPOLY   476007.118  3745359.932      465.420
   LOCATION B14DUST      AREAPOLY   475821.186  3745614.341      466.620
   LOCATION B17DUST      AREAPOLY   475828.442  3746166.240      466.250
   LOCATION B18DUST      AREAPOLY   475605.324  3746536.290      469.000
** Source Parameters **
   SRCPARAM B13_1        0.0007874868     5.000    44.819     1.400
   SRCPARAM B13_2        0.0007874868     5.000    44.819     1.400
   SRCPARAM B14_1        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_2        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_3        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_4        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_5        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_6        0.0002624955     5.000    27.337     1.400
   SRCPARAM B17_1        0.0007874868     5.000    44.726     1.400
   SRCPARAM B17_2        0.0007874868     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000629989     5.000    12.365     1.400
   SRCPARAM B13DUST      5.7875E-07     0.000         4     1.000
   AREAVERT B13DUST      476007.118 3745359.932 476195.771 3745359.932
   AREAVERT B13DUST      476198.038 3744975.825 476005.304 3744976.278
   SRCPARAM B14DUST      5.4043E-07     0.000        22     1.000
   AREAVERT B14DUST      475821.186 3745614.341 475967.211 3745614.341
   AREAVERT B14DUST      475987.618 3745616.155 476008.478 3745622.050
   AREAVERT B14DUST      476029.793 3745631.120 476053.374 3745643.364
   AREAVERT B14DUST      476101.444 3745578.062 476130.468 3745539.061
   AREAVERT B14DUST      476151.328 3745508.677 476171.735 3745475.119
   AREAVERT B14DUST      476180.352 3745454.258 476188.515 3745427.956
   AREAVERT B14DUST      476194.864 3745391.677 476195.317 3745383.514
   AREAVERT B14DUST      476170.375 3745382.153 475910.524 3745383.060
   AREAVERT B14DUST      475899.640 3745380.793 475880.594 3745375.351
   AREAVERT B14DUST      475860.640 3745370.362 475849.303 3745370.362
   AREAVERT B14DUST      475822.547 3745365.374 475819.372 3745371.723
   SRCPARAM B17DUST      6.4739E-07     0.000         7     1.000
   AREAVERT B17DUST      475828.442 3746166.240 475830.710 3746353.079
   AREAVERT B17DUST      476130.468 3746354.893 476196.224 3746166.694
   AREAVERT B17DUST      476163.573 3746166.240 476165.387 3746158.984
   AREAVERT B17DUST      475828.896 3746157.170
   SRCPARAM B18DUST      7.1145E-07     0.000        13     1.000
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   AREAVERT B18DUST      475605.324 3746536.290 475659.743 3746536.290
   AREAVERT B18DUST      475659.290 3746456.021 475654.301 3746449.219
   AREAVERT B18DUST      475657.476 3746438.789 475663.371 3746431.986
   AREAVERT B18DUST      475669.267 3746430.626 475678.337 3746431.533
   AREAVERT B18DUST      475693.302 3746436.975 475798.058 3746436.068
   AREAVERT B18DUST      475802.140 3746431.533 475804.407 3746158.077
   AREAVERT B18DUST      475608.952 3746158.984
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2 B13DUST
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6 B14DUST
   SRCGROUP B17      B17_1 B17_2 B17DUST
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP B18      B18DUST
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons PM2_5.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 CONS PM2_5.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 CONS PM2_5.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 CONS PM2_5.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 CONS PM2_5.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 CONS PM2_5.AD\24H_B18.PLT" 35
   SUMMFILE "13697 Cons PM2_5.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
**
```

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** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons PM2_5\13697 Cons PM2_5.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons PM2_5.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
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   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
   LOCATION B13DUST      AREAPOLY   476007.118  3745359.932      465.420
   LOCATION B14DUST      AREAPOLY   475821.186  3745614.341      466.620
   LOCATION B17DUST      AREAPOLY   475828.442  3746166.240      466.250
   LOCATION B18DUST      AREAPOLY   475605.324  3746536.290      469.000
** Source Parameters **
   SRCPARAM B13_1        0.0007874868     5.000    44.819     1.400
   SRCPARAM B13_2        0.0007874868     5.000    44.819     1.400
   SRCPARAM B14_1        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_2        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_3        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_4        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_5        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_6        0.0002624955     5.000    27.337     1.400
   SRCPARAM B17_1        0.0007874868     5.000    44.726     1.400
   SRCPARAM B17_2        0.0007874868     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000629989     5.000    12.365     1.400
   SRCPARAM B13DUST      5.7875E-07     0.000         4     1.000
   AREAVERT B13DUST      476007.118 3745359.932 476195.771 3745359.932
   AREAVERT B13DUST      476198.038 3744975.825 476005.304 3744976.278
   SRCPARAM B14DUST      5.4043E-07     0.000        22     1.000
   AREAVERT B14DUST      475821.186 3745614.341 475967.211 3745614.341
   AREAVERT B14DUST      475987.618 3745616.155 476008.478 3745622.050
   AREAVERT B14DUST      476029.793 3745631.120 476053.374 3745643.364
   AREAVERT B14DUST      476101.444 3745578.062 476130.468 3745539.061
   AREAVERT B14DUST      476151.328 3745508.677 476171.735 3745475.119
   AREAVERT B14DUST      476180.352 3745454.258 476188.515 3745427.956
   AREAVERT B14DUST      476194.864 3745391.677 476195.317 3745383.514
   AREAVERT B14DUST      476170.375 3745382.153 475910.524 3745383.060
   AREAVERT B14DUST      475899.640 3745380.793 475880.594 3745375.351
   AREAVERT B14DUST      475860.640 3745370.362 475849.303 3745370.362
   AREAVERT B14DUST      475822.547 3745365.374 475819.372 3745371.723
   SRCPARAM B17DUST      6.4739E-07     0.000         7     1.000
   AREAVERT B17DUST      475828.442 3746166.240 475830.710 3746353.079
   AREAVERT B17DUST      476130.468 3746354.893 476196.224 3746166.694
   AREAVERT B17DUST      476163.573 3746166.240 476165.387 3746158.984
   AREAVERT B17DUST      475828.896 3746157.170
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   SRCPARAM B18DUST      7.1145E-07     0.000        13     1.000
   AREAVERT B18DUST      475605.324 3746536.290 475659.743 3746536.290
   AREAVERT B18DUST      475659.290 3746456.021 475654.301 3746449.219
   AREAVERT B18DUST      475657.476 3746438.789 475663.371 3746431.986
   AREAVERT B18DUST      475669.267 3746430.626 475678.337 3746431.533
   AREAVERT B18DUST      475693.302 3746436.975 475798.058 3746436.068
   AREAVERT B18DUST      475802.140 3746431.533 475804.407 3746158.077
   AREAVERT B18DUST      475608.952 3746158.984
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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** WeekDays:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2 B13DUST
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6 B14DUST
   SRCGROUP B17      B17_1 B17_2 B17DUST
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP B18      B18DUST
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons PM2_5.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 CONS PM2_5.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 CONS PM2_5.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 CONS PM2_5.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 CONS PM2_5.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 CONS PM2_5.AD\24H_B18.PLT" 35
   SUMMFILE "13697 Cons PM2_5.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     760       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     760       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       16:14:20

                      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    39 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  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:     39 Source(s);       5 Source Group(s); and      78 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     35 VOLUME source(s)
                and:      4 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
```

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

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

**Detailed Error/Message File:   13697 Cons
PM2_5.err
**File for Summary of Results:   13697 Cons
PM2_5.sum
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20

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


                                                   *** VOLUME SOURCE DATA ***

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

B13_1            0   0.78749E-03  476101.1 3745262.2   464.0     5.00    44.82     1.40
YES   HRDOW
B13_2            0   0.78749E-03  476102.0 3745072.0   465.9     5.00    44.82     1.40
YES   HRDOW
B14_1            0   0.26250E-03  475881.8 3745554.6   466.0     5.00    27.34     1.40
YES   HRDOW
B14_2            0   0.26250E-03  475881.2 3745437.3   468.2     5.00    27.34     1.40
YES   HRDOW
B14_3            0   0.26250E-03  475999.6 3745554.0   464.7     5.00    27.34     1.40
YES   HRDOW
B14_4            0   0.26250E-03  476000.0 3745437.7   465.7     5.00    27.34     1.40
YES   HRDOW
B14_5            0   0.26250E-03  476071.8 3745548.2   464.0     5.00    27.34     1.40
YES   HRDOW
B14_6            0   0.26250E-03  476118.4 3745439.0   463.0     5.00    27.34     1.40
YES   HRDOW
B17_1            0   0.78749E-03  475926.0 3746256.1   465.0     5.00    44.73     1.40
YES   HRDOW
B17_2            0   0.78749E-03  476070.8 3746258.4   463.0     5.00    44.73     1.40
YES   HRDOW
B18_1            0   0.62999E-04  475632.5 3746502.6   469.1     5.00    12.37     1.40
YES   HRDOW
B18_2            0   0.62999E-04  475633.4 3746447.8   469.9     5.00    12.37     1.40
YES   HRDOW
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 B18_3            0   0.62999E-04  475638.8 3746403.3   469.7     5.00    12.37     1.40
 YES   HRDOW
 B18_4            0   0.62999E-04  475681.1 3746405.0   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_5            0   0.62999E-04  475727.7 3746410.8   467.7     5.00    12.37     1.40
 YES   HRDOW
 B18_6            0   0.62999E-04  475775.0 3746409.1   466.4     5.00    12.37     1.40
 YES   HRDOW
 B18_7            0   0.62999E-04  475640.0 3746350.6   469.9     5.00    12.37     1.40
 YES   HRDOW
 B18_8            0   0.62999E-04  475690.3 3746353.5   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_9            0   0.62999E-04  475774.6 3746355.1   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_10           0   0.62999E-04  475731.0 3746357.2   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_11           0   0.62999E-04  475639.2 3746296.6   469.7     5.00    12.37     1.40
 YES   HRDOW
 B18_12           0   0.62999E-04  475689.9 3746300.7   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_13           0   0.62999E-04  475740.5 3746303.6   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_14           0   0.62999E-04  475774.6 3746301.6   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_15           0   0.62999E-04  475637.5 3746242.6   469.8     5.00    12.37     1.40
 YES   HRDOW
 B18_16           0   0.62999E-04  475683.6 3746246.3   469.1     5.00    12.37     1.40
 YES   HRDOW
 B18_17           0   0.62999E-04  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_18           0   0.62999E-04  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_19           0   0.62999E-04  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES   HRDOW
 B18_20           0   0.62999E-04  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_21           0   0.62999E-04  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES   HRDOW
 B18_22           0   0.62999E-04  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES   HRDOW
 B18_23           0   0.62999E-04  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_24           0   0.62999E-04  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES   HRDOW
 B18_25           0   0.62999E-04  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES   HRDOW
```

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


                                                  *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER      INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X         Y      ELEV.    HEIGHT  OF VERTS.     SZ
   SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)    (METERS) (METERS) (METERS) (METERS)
     (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
```

```
 B13DUST          0   0.57875E-06  476007.1 3745359.9   465.4     0.00       4         1.00
 YES   HRDOW
 B14DUST          0   0.54043E-06  475821.2 3745614.3   466.6     0.00      22         1.00
 YES   HRDOW
 B17DUST          0   0.64739E-06  475828.4 3746166.2   466.2     0.00       7         1.00
 YES   HRDOW
 B18DUST          0   0.71145E-06  475605.3 3746536.3   469.0     0.00      13         1.00
 YES   HRDOW
```



```
                                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13        B13_1       , B13_2       , B13DUST     ,

  B14        B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,
  B14DUST     ,

  B17        B17_1       , B17_2       , B17DUST     ,

  B18        B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

             B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
             B18_15      , B18_16      ,

             B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
             B18_23      , B18_24      ,

             B18_25      , B18DUST     ,

  ALL        B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

             B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
             B18_5       , B18_6       ,

             B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
             B18_13      , B18_14      ,

             B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
             B18_21      , B18_22      ,

             B18_23      , B18_24      , B18_25      , B13DUST     , B14DUST     , B17DUST     ,
             B18DUST     ,
```



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

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


             2189641.   B13_1       , B13_2       , B14_1       , B14_2       , B14_3       ,
             B14_4       , B14_5       ,
 B14_6       ,

            B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
            B18_5       , B18_6       ,

            B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
            B18_13      , B18_14      ,

            B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
            B18_21      , B18_22      ,

            B18_23      , B18_24      , B18_25      , B13DUST     , B14DUST     , B17DUST     ,
            B18DUST     ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       16:14:20

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

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

 SOURCE ID = B13_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       16:14:20

                        PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

```
 SOURCE ID = B13_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20

                     PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
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 *** AERMET - VERSION  16216 ***
 ***                                                                           ***        16:14:20

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

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

 SOURCE ID = B14_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                           ***        16:14:20

                      PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_3        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                            ***        16:14:20

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

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

 SOURCE ID = B14_4        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                            ***        16:14:20

                      PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        16:14:20

                        PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_6        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        16:14:20

                        PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B17_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***       16:14:20

                        PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B17_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***       16:14:20

                        PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = B18_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:14:20

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

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

 SOURCE ID = B18_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B18_3   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

- -

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

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

SOURCE ID = B18_4   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

- -

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

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20

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

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

 SOURCE ID = B18_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20

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

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

 SOURCE ID = B18_6        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

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

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

 SOURCE ID = B18_7        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_8        ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20

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

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

 SOURCE ID = B18_9        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

SOURCE ID = B18_10 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 16:14:20

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

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

SOURCE ID = B18_11 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

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

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***       16:14:20

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

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

 SOURCE ID = B18_12       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***       16:14:20

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

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

 SOURCE ID = B18_13       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B18_14 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

SOURCE ID = B18_15 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

DAY OF WEEK = WEEKDAY

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

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

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

 SOURCE ID = B18_16       ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

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

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

(HRDOW) *

SOURCE ID = B18_17 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -

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

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

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_18 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -

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

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

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

Ops\13697 Ops. ***   01/18/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:14:20

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

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

 SOURCE ID = B18_19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   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 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***   01/18/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:14:20

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

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

 SOURCE ID = B18_20   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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

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

SOURCE ID = B18_21 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

SOURCE ID = B18_22 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

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

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20

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

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

 SOURCE ID = B18_23       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        16:14:20

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

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

 SOURCE ID = B18_24       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:14:20

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

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

 SOURCE ID = B18_25       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        16:14:20

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

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

 SOURCE ID = B13DUST      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       16:14:20

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

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

 SOURCE ID = B14DUST      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
```

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

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

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

SOURCE ID = B17DUST ; SOURCE TYPE = AREAPOLY :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

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

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

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

SOURCE ID = B18DUST ; SOURCE TYPE = AREAPOLY :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

```
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
.0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
.0000E+00   23  .0000E+00   24  .0000E+00
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                                              *** DISCRETE CARTESIAN RECEPTORS ***
                                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                           (METERS)

     ( 476395.7, 3744607.8,     462.5,     462.5,       2.0);         ( 476314.7, 3744669.6,
     463.2,     463.2,        2.0);
     ( 476332.8, 3744655.3,     463.0,     463.0,       2.0);         ( 476366.0, 3744513.7,
     463.2,     463.2,        2.0);
     ( 476245.9, 3744942.5,     463.5,     463.5,       2.0);         ( 476289.5, 3745000.4,
     463.0,     463.0,        2.0);
     ( 476288.5, 3745361.6,     461.2,     461.2,       2.0);         ( 475880.7, 3745148.5,
     468.0,     468.0,        2.0);
     ( 475796.7, 3745058.2,     469.6,     469.6,       2.0);         ( 475750.0, 3745108.9,
     470.0,     470.0,        2.0);
     ( 475798.5, 3745194.1,     469.1,     469.1,       2.0);         ( 475752.4, 3745335.1,
     469.9,     469.9,        2.0);
     ( 475776.9, 3745405.8,     470.0,     470.0,       2.0);         ( 475731.8, 3745293.2,
     470.6,     470.6,        2.0);
     ( 475784.8, 3745574.2,     467.8,     467.8,       2.0);         ( 475709.8, 3745574.8,
     469.3,     469.3,        2.0);
     ( 475708.9, 3745598.8,     469.4,     469.4,       2.0);         ( 475709.4, 3745621.8,
     469.2,     469.2,        2.0);
     ( 475709.4, 3745647.0,     469.0,     469.0,       2.0);         ( 475709.1, 3745668.2,
     469.0,     469.0,        2.0);
     ( 475710.0, 3745693.7,     469.3,     469.3,       2.0);         ( 475709.4, 3745717.0,
     469.4,     469.4,        2.0);
     ( 475709.1, 3745739.8,     469.4,     469.4,       2.0);         ( 475777.8, 3745697.3,
     468.0,     468.0,        2.0);
     ( 475785.3, 3745721.7,     467.8,     467.8,       2.0);         ( 475794.2, 3745802.0,
     467.5,     467.5,        2.0);
     ( 475778.8, 3745842.0,     468.0,     468.0,       2.0);         ( 475800.0, 3745888.8,
     467.3,     467.3,        2.0);
     ( 475790.0, 3745940.2,     467.0,     467.0,       2.0);         ( 475892.2, 3745936.4,
     465.2,     465.2,        2.0);
     ( 475893.3, 3746111.5,     465.0,     465.0,       2.0);         ( 476130.1, 3746085.0,
     462.0,     462.0,        2.0);
     ( 476129.7, 3745935.0,     462.0,     462.0,       2.0);         ( 475595.7, 3746575.8,
     469.1,     469.1,        2.0);
     ( 475911.0, 3746495.7,     464.0,     464.0,       2.0);         ( 475863.3, 3746556.4,
     464.5,     464.5,        2.0);
     ( 475594.2, 3746890.1,     468.4,     468.4,       2.0);         ( 476146.4, 3746600.5,
     460.7,     460.7,        2.0);
     ( 476082.9, 3746873.9,     459.9,     459.9,       2.0);         ( 475609.1, 3746999.9,
     467.0,     467.0,        2.0);
     ( 475745.2, 3747048.2,     464.2,     464.2,       2.0);         ( 475382.0, 3746161.0,
     476.1,     476.1,        2.0);
     ( 475411.0, 3746003.0,     475.3,     475.3,       2.0);         ( 474409.0, 3746437.3,
     518.9,     524.0,        2.0);
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(476290.4, 3746244.9, 460.0, 460.0, 2.0); (476339.3, 3746119.1,
460.0, 460.0, 2.0);
(476311.4, 3746179.4, 460.0, 460.0, 2.0); (476277.8, 3746288.2,
460.0, 460.0, 2.0);
(476333.6, 3746432.9, 459.0, 459.0, 2.0); (476384.2, 3745949.3,
460.0, 460.0, 2.0);
(476360.3, 3745999.4, 460.0, 460.0, 2.0); (476412.9, 3745836.5,
460.0, 460.0, 2.0);
(476404.8, 3745918.6, 460.0, 460.0, 2.0); (476434.1, 3745820.9,
460.0, 460.0, 2.0);
(476454.9, 3745720.5, 459.0, 459.0, 2.0); (475797.4, 3744976.8,
471.0, 471.0, 2.0);
(476060.4, 3744909.2, 466.7, 466.7, 2.0); (475777.3, 3744882.4,
472.0, 472.0, 2.0);
(475781.9, 3744832.1, 471.9, 471.9, 2.0); (475779.6, 3744791.2,
472.0, 472.0, 2.0);
(475786.0, 3744729.8, 472.0, 472.0, 2.0); (475774.6, 3744924.7,
471.8, 471.8, 2.0);
(475782.2, 3744693.9, 472.0, 472.0, 2.0); (475768.2, 3744638.7,
473.0, 473.0, 2.0);
(475787.2, 3744589.0, 472.1, 472.1, 2.0); (475706.3, 3744502.2,
473.1, 473.1, 2.0);
(475780.2, 3744427.1, 473.0, 473.0, 2.0); (475764.1, 3744390.6,
473.5, 473.5, 2.0);
(477060.8, 3744371.8, 455.0, 455.0, 2.0); (476803.5, 3745166.9,
456.0, 456.0, 2.0);
(477112.7, 3745115.0, 453.6, 453.6, 2.0); (477464.4, 3745086.8,
450.0, 450.0, 2.0);
(477531.6, 3745005.5, 450.0, 450.0, 2.0); (475715.5, 3746455.6,
468.1, 468.1, 2.0);
(475792.0, 3746459.3, 466.3, 466.3, 2.0); (475771.3, 3746506.7,
466.3, 466.3, 2.0);
(475775.2, 3746458.3, 466.7, 466.7, 2.0); (475750.4, 3746454.3,
467.0, 467.0, 2.0);

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

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

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

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. *** 01/18/23
*** AERMET - VERSION 16216 ***
*** *** 16:14:20

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

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

Surface file: PERI_V9_ADJU\PERI_v9.SFC Met Version: 16216
Profile file: PERI_V9_ADJU\PERI_v9.PFL
Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN UNKNOWN Name:
Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5

```
10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61   0.36    1.80
11.    9.1  292.5    5.5
10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61   0.64    0.90
351.    9.1  290.4    5.5
10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
186.    9.1  287.5    5.5
10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
275.    9.1  285.9    5.5
10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
181.    9.1  285.4    5.5
10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
318.    9.1  284.9    5.5
10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
196.    9.1  283.1    5.5
10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
330.    9.1  281.4    5.5
10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
332.    9.1  280.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
*** AERMET - VERSION  16216 ***
***                                                                     ***        16:14:20

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

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  B13      ***
                                  INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                                  B13DUST     ,

                                                 *** 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)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
       476395.71   3744607.81        0.11526  (14120124)                476314.71
       3744669.61        0.15363  (14120124)
       476332.85   3744655.27        0.14526  (14120124)                476365.97
       3744513.73        0.08885  (14120124)
       476245.90   3744942.48        0.50118  (14120124)                476289.52
       3745000.38        0.29662m (10052024)
       476288.55   3745361.57        0.33275  (15122224)                475880.74
       3745148.55        0.42482  (10121524)
       475796.73   3745058.23        0.19090c (10122124)                475750.05
       3745108.89        0.14727  (10121524)
       475798.54   3745194.08        0.29568  (10121524)                475752.37
       3745335.13        0.26495  (10121524)
       475776.90   3745405.80        0.24944  (10121524)                475731.82
       3745293.23        0.25289  (10121524)
       475784.75   3745574.23        0.11482  (16010524)                475709.78
       3745574.77        0.07038  (11051724)
       475708.88   3745598.80        0.06729  (11051724)                475709.42
       3745621.76        0.06442  (11051724)
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      475709.42   3745647.05        0.06867  (16010524)                     475709.06
      3745668.21         0.07327  (16010524)
      475709.96   3745693.68        0.07896  (16010524)                     475709.42
      3745717.00         0.08261  (16010524)
      475709.06   3745739.77        0.08548  (16010524)                     475777.75
      3745697.27         0.12635  (16010524)
      475785.29   3745721.66        0.12911  (16010524)                     475794.25
      3745802.05         0.11400  (16010524)
      475778.85   3745842.00        0.10142  (16010524)                     475800.05
      3745888.80         0.08689  (16010524)
      475789.98   3745940.18        0.07375  (16010524)                     475892.19
      3745936.40         0.07352  (10012024)
      475893.32   3746111.50        0.04762  (10012024)                     476130.12
      3746085.01         0.10658c (10121724)
      476129.71   3745935.03        0.13857c (10121724)                     475595.68
      3746575.78         0.02209c (14012124)
      475911.01   3746495.74        0.03859  (11121924)                     475863.30
      3746556.38         0.03396  (11121924)
      475594.25   3746890.12        0.02160  (14123024)                     476146.43
      3746600.47         0.05747c (10121724)
      476082.93   3746873.86        0.04021c (10121724)                     475609.08
      3746999.92         0.02204  (14123024)
      475745.21   3747048.16        0.02268  (11121924)                     475382.02
      3746160.96         0.03367b (14120224)
      475411.04   3746003.05        0.03794c (14010324)                     474409.00
      3746437.28         0.01627  (10012724)
      476290.36   3746244.91        0.05728c (10121724)                     476339.29
      3746119.15         0.04303c (16012224)
      476311.38   3746179.40        0.05097c (10121724)                     476277.82
      3746288.18         0.05990c (10121724)
      476333.63   3746432.95        0.04153c (10121724)                     476384.17
      3745949.30         0.04756  (10100524)
      476360.32   3745999.45        0.04574  (10100524)                     476412.89
      3745836.48         0.05596c (11030724)
      476404.80   3745918.57        0.04820c (10020924)                     476434.06
      3745820.87         0.05831c (11030724)
      476454.86   3745720.49        0.07030c (11030724)                     475797.42
      3744976.75         0.18341c (14012424)
      476060.39   3744909.25        0.66483  (16122224)                     475777.26
      3744882.37         0.13579c (14012424)
      475781.93   3744832.11        0.12537m (15123124)                     475779.60
      3744791.20         0.11522m (15123124)
      475786.02   3744729.84        0.09506m (15123124)                     475774.63
      3744924.73         0.15430c (14012424)
      475782.23   3744693.90        0.08511c (15012824)                     475768.20
      3744638.68         0.07189c (15012824)
      475787.19   3744589.00        0.06668c (15012824)                     475706.26
      3744502.22         0.04615c (15012824)
      475780.18   3744427.13        0.04245c (15012824)                     475764.11
      3744390.61         0.03845c (15012824)
      477060.85   3744371.76        0.01798  (11011924)                     476803.53
      3745166.88         0.03349  (14040124)
      477112.67   3745114.97        0.01763  (14040124)                     477464.43
      3745086.80         0.01135m (10120824)
      477531.57   3745005.51        0.01121m (10120824)                     475715.48
      3746455.63         0.02818  (14123024)
      475791.98   3746459.29        0.03157  (14123024)                     475771.33
      3746506.69         0.03035  (14123024)
      475775.18   3746458.34        0.03115  (14123024)                     475750.42
      3746454.29         0.03020  (14123024)
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B14 ***
INCLUDING SOURCE(S): B14_1 , B14_2 , B14_3 , B14_4 , B14_5 , B14_6 , B14DUST ,

*** 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)
476395.71	3744607.81	0.04538	(14120124)	476314.71	3744669.61	0.04809	(16122224)
476332.85	3744655.27	0.04641c	(14110324)	476365.97	3744513.73	0.03663c	(14110324)
476245.90	3744942.48	0.09914	(14120124)	476289.52	3745000.38	0.11858	(14120124)
476288.55	3745361.57	0.25747	(14040124)	475880.74	3745148.55	0.17869m	(10120724)
475796.73	3745058.23	0.10344c	(15012824)	475750.05	3745108.89	0.12948c	(15012824)
475798.54	3745194.08	0.20518c	(15012824)	475752.37	3745335.13	0.38067m	(15123124)
475776.90	3745405.80	0.59364c	(14012424)	475731.82	3745293.23	0.27620m	(15123124)
475784.75	3745574.23	0.99727	(10121524)	475709.78	3745574.77	0.54094	(10121524)
475708.88	3745598.80	0.53975	(10121524)	475709.42	3745621.76	0.52456	(10121524)
475709.42	3745647.05	0.48055	(10121524)	475709.06	3745668.21	0.42284	(10121524)
475709.96	3745693.68	0.34011	(10121524)	475709.42	3745717.00	0.26516	(10121524)
475709.06	3745739.77	0.20149	(10121524)	475777.75	3745697.27	0.43755	(16010524)
475785.29	3745721.66	0.42372	(16010524)	475794.25	3745802.05	0.30755	(16010524)
475778.85	3745842.00	0.25372	(16010524)	475800.05	3745888.80	0.22417	(16010524)
475789.98	3745940.18	0.18441	(16010524)	475892.19	3745936.40	0.17591c	(10121724)
475893.32	3746111.50	0.11372c	(10121724)	476130.12	3746085.01	0.11071c	(10121724)
476129.71	3745935.03	0.15156c	(10121724)	475595.68	3746575.78	0.03169	(10012024)
475911.01	3746495.74	0.06481c	(10121724)	475863.30	3746556.38	0.04918c	(10121724)
475594.25	3746890.12	0.02621	(14123024)	476146.43	3746600.47	0.05958c	(10121724)
476082.93	3746873.86	0.05414c	(10121724)	475609.08	3746999.92	0.02577	(14123024)
475745.21	3747048.16	0.02963	(11121924)	475382.02	3746160.96	0.04351c	(14010324)
475411.04	3746003.05	0.04591c	(14010324)	474409.00	3746437.28	0.01699b	(14021824)
476290.36	3746244.91	0.04383c	(10020924)	476339.29	3746119.15	0.05453c	(11030724)
476311.38	3746179.40	0.04647c	(10020924)	476277.82	3746288.18	0.04087c	(10020924)
476333.63	3746432.95	0.02988c	(10020924)	476384.17			

3745949.30   0.06626c (10033124)
476360.32   3745999.45   0.06784c (11030724)   476412.89
3745836.48   0.06328c (10033124)
476404.80   3745918.57   0.06581c (10033124)   476434.06
3745820.87   0.05780 (14013124)
476454.86   3745720.49   0.06861c (10012924)   475797.42
3744976.75   0.07172c (15012824)
476060.39   3744909.25   0.13161 (16122224)   475777.26
3744882.37   0.05171 (14112424)
475781.93   3744832.11   0.04741b (10120624)   475779.60
3744791.20   0.04384b (10120624)
475786.02   3744729.84   0.04080b (10120624)   475774.63
3744924.73   0.05968c (15012824)
475782.23   3744693.90   0.03817b (10120624)   475768.20
3744638.68   0.03363b (10120624)
475787.19   3744589.00   0.03351b (10120624)   475706.26
3744502.22   0.02764c (16031824)
475780.18   3744427.13   0.02722b (10120624)   475764.11
3744390.61   0.02581c (16031824)
477060.85   3744371.76   0.01700 (16122024)   476803.53
3745166.88   0.03017 (14040124)
477112.67   3745114.97   0.01883 (14040124)   477464.43
3745086.80   0.01212 (14040124)
477531.57   3745005.51   0.01130 (10021524)   475715.48
3746455.63   0.04152 (10012024)
475791.98   3746459.29   0.04611 (11121924)   475771.33
3746506.69   0.04202 (11121924)
475775.18   3746458.34   0.04403 (11121924)   475750.42
3746454.29   0.04063 (11121924)

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   16:14:20

PAGE 50
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: B17   ***
INCLUDING SOURCE(S):   B17_1   , B17_2   , B17DUST   ,

*** 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)
- -
476395.71   3744607.81   0.03450 (16122224)   476314.71
3744669.61   0.03925 (16122224)
476332.85   3744655.27   0.03841 (16122224)   476365.97
3744513.73   0.03463 (16122224)
476245.90   3744942.48   0.04929 (16122224)   476289.52
3745000.38   0.04942 (16122224)
476288.55   3745361.57   0.05903 (16122224)   475880.74
3745148.55   0.02812b (10120624)
475796.73   3745058.23   0.02431b (10120624)   475750.05
3745108.89   0.02493c (16031824)
475798.54   3745194.08   0.02794b (10120624)   475752.37
3745335.13   0.03022c (16031824)
475776.90   3745405.80   0.03364b (10120624)   475731.82
3745293.23   0.02870c (16031824)
475784.75   3745574.23   0.04451b (10120624)   475709.78

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        3745574.77        0.04429c (15012824)
        475708.88   3745598.80        0.04772c (15012824)                 475709.42
        3745621.76        0.05133c (15012824)
        475709.42   3745647.05        0.05575c (15012824)                 475709.06
        3745668.21        0.05978c (15012824)
        475709.96   3745693.68        0.06502c (15012824)                 475709.42
        3745717.00        0.07038c (15012824)
        475709.06   3745739.77        0.07610c (15012824)                 475777.75
        3745697.27        0.06381c (15012824)
        475785.29   3745721.66        0.06973c (15012824)                 475794.25
        3745802.05        0.09711c (15012824)
        475778.85   3745842.00        0.11589c (15012824)                 475800.05
        3745888.80        0.14482c (15012824)
        475789.98   3745940.18        0.18509c (15012824)                 475892.19
        3745936.40        0.20494m (10120724)
        475893.32   3746111.50        0.88555  (16122224)                 476130.12
        3746085.01        0.59503  (16122224)
        476129.71   3745935.03        0.25370  (16122224)                 475595.68
        3746575.78        0.11359  (10121524)
        475911.01   3746495.74        0.48007  (16010524)                 475863.30
        3746556.38        0.34530  (16010524)
        475594.25   3746890.12        0.08550  (16010524)                 476146.43
        3746600.47        0.20159c (10121724)
        476082.93   3746873.86        0.13223c (10121724)                 475609.08
        3746999.92        0.07522  (16010524)
        475745.21   3747048.16        0.05765  (10012024)                 475382.02
        3746160.96        0.06591c (14120324)
        475411.04   3746003.05        0.09382  (16110924)                 474409.00
        3746437.28        0.02222c (15120924)
        476290.36   3746244.91        0.28821  (14040124)                 476339.29
        3746119.15        0.19775  (14040124)
        476311.38   3746179.40        0.29872  (14040124)                 476277.82
        3746288.18        0.24102c (16030724)
        476333.63   3746432.95        0.13596  (14013124)                 476384.17
        3745949.30        0.11503m (10052024)
        476360.32   3745999.45        0.14254m (10052024)                 476412.89
        3745836.48        0.07704b (10102124)
        476404.80   3745918.57        0.09906m (10052024)                 476434.06
        3745820.87        0.06902c (16011924)
        476454.86   3745720.49        0.06136b (10102124)                 475797.42
        3744976.75        0.02255b (10120624)
        476060.39   3744909.25        0.03124  (16122224)                 475777.26
        3744882.37        0.02102c (16031824)
        475781.93   3744832.11        0.02029c (16031824)                 475779.60
        3744791.20        0.01976c (16031824)
        475786.02   3744729.84        0.01895c (16031824)                 475774.63
        3744924.73        0.02168c (16031824)
        475782.23   3744693.90        0.01855c (16031824)                 475768.20
        3744638.68        0.01803c (16031824)
        475787.19   3744589.00        0.01739c (16031824)                 475706.26
        3744502.22        0.01696c (16031824)
        475780.18   3744427.13        0.01595c (16031824)                 475764.11
        3744390.61        0.01576c (16031824)
        477060.85   3744371.76        0.01263c (14110324)                 476803.53
        3745166.88        0.02059  (14120124)
        477112.67   3745114.97        0.01677  (16122024)                 477464.43
        3745086.80        0.01230  (16122024)
        477531.57   3745005.51        0.01219  (16122024)                 475715.48
        3746455.63        0.31559  (10121524)
        475791.98   3746459.29        0.45144  (16010524)                 475771.33
        3746506.69        0.32984  (16010524)
        475775.18   3746458.34        0.38842  (16010524)                 475750.42
        3746454.29        0.30534  (10121524)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B18 ***
INCLUDING SOURCE(S): B18_1 , B18_2 , B18_3 , B18_4 , B18_5 ,
B18_6 , B18_7 , B18_8 , B18_9 , B18_10 ,
B18_11 , B18_12 , B18_13 ,
B18_14 , B18_15 , B18_16 , B18_17 , B18_18 ,
B18_19 , B18_20 , B18_21 ,
B18_22 , B18_23 , B18_24 , B18_25 , B18DUST ,

*** 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)
476395.71	3744607.81	0.01677c	(14110324)	476314.71	3744669.61	0.01707c	(14110324)
476332.85	3744655.27	0.01702c	(14110324)	476365.97	3744513.73	0.01488c	(14110324)
476245.90	3744942.48	0.02306c	(14110324)	476289.52	3745000.38	0.02577	(14120124)
476288.55	3745361.57	0.03520	(14120124)	475880.74	3745148.55	0.06291	(16122224)
475796.73	3745058.23	0.04294	(16122224)	475750.05	3745108.89	0.03629	(16122224)
475798.54	3745194.08	0.05430	(16122224)	475752.37	3745335.13	0.05667	(16122224)
475776.90	3745405.80	0.07585	(16122224)	475731.82	3745293.23	0.04511	(16122224)
475784.75	3745574.23	0.11911	(16122224)	475709.78	3745574.77	0.07796	(16122224)
475708.88	3745598.80	0.08328	(16122224)	475709.42	3745621.76	0.08999	(16122224)
475709.42	3745647.05	0.09773	(16122224)	475709.06	3745668.21	0.10458	(16122224)
475709.96	3745693.68	0.11486	(16122224)	475709.42	3745717.00	0.12426	(16122224)
475709.06	3745739.77	0.13472	(16122224)	475777.75	3745697.27	0.16339	(16122224)
475785.29	3745721.66	0.17737	(16122224)	475794.25	3745802.05	0.22226	(16122224)
475778.85	3745842.00	0.25253	(16122224)	475800.05	3745888.80	0.28068	(16122224)
475789.98	3745940.18	0.34169	(16122224)	475892.19	3745936.40	0.25259	(14120124)
475893.32	3746111.50	0.35294	(14120424)	476130.12	3746085.01	0.08718	(15121424)
476129.71	3745935.03	0.08193m	(10052024)	475595.68	3746575.78	1.04824	(16010524)
475911.01	3746495.74	0.27288	(15122224)	475863.30	3746556.38	0.29587	(11112424)
475594.25	3746890.12	0.12934	(11121924)	476146.43	3746600.47	0.06383	(14013124)
476082.93	3746873.86	0.06164c	(11030724)	475609.08	3746999.92	0.10425c	(10121724)
475745.21	3747048.16	0.14119c	(10121724)	475382.02	3746160.96	0.18947c	(14012424)

475411.04	3746003.05	0.15248m	(15123124)	474409.00	3746437.28	0.02633c	(15120924)
476290.36	3746244.91	0.06359	(14040124)	476339.29	3746119.15	0.05825	(14040124)
476311.38	3746179.40	0.06538	(14040124)	476277.82	3746288.18	0.05716	(14040124)
476333.63	3746432.95	0.03413c	(10012924)	476384.17	3745949.30	0.03862	(15121424)
476360.32	3745999.45	0.03980	(15121424)	476412.89	3745836.48	0.03286	(15111624)
476404.80	3745918.57	0.03664	(15121424)	476434.06	3745820.87	0.03094	(15111624)
476454.86	3745720.49	0.02549	(15111624)	475797.42	3744976.75	0.03810	(16122224)
476060.39	3744909.25	0.04309	(16122224)	475777.26	3744882.37	0.03042	(16122224)
475781.93	3744832.11	0.02926	(16122224)	475779.60	3744791.20	0.02755	(16122224)
475786.02	3744729.84	0.02652	(16122224)	475774.63	3744924.73	0.03172	(16122224)
475782.23	3744693.90	0.02505	(16122224)	475768.20	3744638.68	0.02151	(16122224)
475787.19	3744589.00	0.02302	(16122224)	475706.26	3744502.22	0.01505c	(15021824)
475780.18	3744427.13	0.01878	(16122224)	475764.11	3744390.61	0.01662	(16122224)
477060.85	3744371.76	0.00957	(10111824)	476803.53	3745166.88	0.01685	(16122024)
477112.67	3745114.97	0.01352	(16122024)	477464.43	3745086.80	0.00920c	(10050324)
477531.57	3745005.51	0.00887c	(10050324)	475715.48	3746455.63	1.68858	(11121924)
475791.98	3746459.29	1.21438c	(10020924)	475771.33	3746506.69	0.77722c	(10121724)
475775.18	3746458.34	1.40131c	(10121724)	475750.42	3746454.29	1.66851c	(10121724)

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

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): B13_1 , B13_2 , B14_1 , B14_2 , B14_3 ,
B14_4 , B14_5 , B14_6 , B17_1 , B17_2 ,
B18_1 , B18_2 , B18_3 ,
B18_4 , B18_5 , B18_6 , B18_7 , B18_8 ,
B18_9 , B18_10 , B18_11 ,
B18_12 , B18_13 , B18_14 , B18_15 , B18_16 ,
B18_17 , B18_18 , . . . ,

*** 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)
476395.71	3744607.81	0.18027	(14120124)	476314.71	3744669.61	0.21679	(14120124)

476332.85   3744655.27   0.20913 (14120124)   476365.97
3744513.73   0.14340 (16122224)
476245.90   3744942.48   0.62616 (14120124)   476289.52
3745000.38   0.40993 (14120124)
476288.55   3745361.57   0.36903 (15122224)   475880.74
3745148.55   0.43506 (10121524)
475796.73   3745058.23   0.19813c (10122124)   475750.05
3745108.89   0.18133c (15012824)
475798.54   3745194.08   0.31519 (10121524)   475752.37
3745335.13   0.40693m (15123124)
475776.90   3745405.80   0.64541 (10121524)   475731.82
3745293.23   0.30631m (15123124)
475784.75   3745574.23   1.04619 (10121524)   475709.78
3745574.77   0.61331 (10121524)
475708.88   3745598.80   0.59474 (10121524)   475709.42
3745621.76   0.56610 (10121524)
475709.42   3745647.05   0.51115 (10121524)   475709.06
3745668.21   0.44692 (10121524)
475709.96   3745693.68   0.35865 (10121524)   475709.42
3745717.00   0.28080 (10121524)
475709.06   3745739.77   0.26963 (16010524)   475777.75
3745697.27   0.56404 (16010524)
475785.29   3745721.66   0.55299 (16010524)   475794.25
3745802.05   0.42179 (16010524)
475778.85   3745842.00   0.35544 (16010524)   475800.05
3745888.80   0.33047 (16122224)
475789.98   3745940.18   0.39982 (16122224)   475892.19
3745936.40   0.31428 (16122224)
475893.32   3746111.50   0.95877b (10120624)   476130.12
3746085.01   0.60161b (10120624)
476129.71   3745935.03   0.29204c (10121724)   475595.68
3746575.78   1.13674 (16010524)
475911.01   3746495.74   0.55063c (10121724)   475863.30
3746556.38   0.43082c (10121724)
475594.25   3746890.12   0.20436 (11121924)   476146.43
3746600.47   0.32255c (10121724)
476082.93   3746873.86   0.24097c (10121724)   475609.08
3746999.92   0.16949 (11121924)
475745.21   3747048.16   0.19605c (10121724)   475382.02
3746160.96   0.22993 (16110924)
475411.04   3746003.05   0.21970c (10122124)   474409.00
3746437.28   0.06096c (15120924)
476290.36   3746244.91   0.35186 (14040124)   476339.29
3746119.15   0.25608 (14040124)
476311.38   3746179.40   0.36416 (14040124)   476277.82
3746288.18   0.27731 (14040124)
476333.63   3746432.95   0.16777c (10012924)   476384.17
3745949.30   0.15784m (10052024)
476360.32   3745999.45   0.18363m (10052024)   476412.89
3745836.48   0.12672c (15122824)
476404.80   3745918.57   0.14139m (10052024)   476434.06
3745820.87   0.12158c (15122824)
476454.86   3745720.49   0.12307c (15122824)   475797.42
3744976.75   0.19576c (14012424)
476060.39   3744909.25   0.87076 (16122224)   475777.26
3744882.37   0.16196c (11010324)
475781.93   3744832.11   0.15606c (15012824)   475779.60
3744791.20   0.14831c (15012824)
475786.02   3744729.84   0.13668c (15012824)   475774.63
3744924.73   0.16993c (11010324)
475782.23   3744693.90   0.12629c (15012824)   475768.20
3744638.68   0.10956c (15012824)
475787.19   3744589.00   0.10286c (15120124)   475706.26
3744502.22   0.08503c (15120124)
475780.18   3744427.13   0.08427c (16031824)   475764.11
3744390.61   0.08191c (16031824)

```
        477060.85   3744371.76        0.04544  (10111824)                476803.53
        3745166.88        0.06375  (14040124)
        477112.67   3745114.97        0.04393  (10021524)                477464.43
        3745086.80        0.03248  (10021524)
        477531.57   3745005.51        0.03240  (10021524)                475715.48
        3746455.63        1.85607  (11121924)
        475791.98   3746459.29        1.30670c (10121724)                475771.33
        3746506.69        0.88165c (10121724)
        475775.18   3746458.34        1.52875c (10121724)                475750.42
        3746454.29        1.78749  (11121924)
```



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

                                                  *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                      ** CONC OF PM_2.5   IN
                                      MICROGRAMS/M**3                          **


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


B13      HIGH   1ST HIGH VALUE IS       0.66483  ON 16122224: AT (  476060.39,  3744909.25,
466.65,   466.65,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS       0.99727  ON 10121524: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS       0.88555  ON 16122224: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS       1.68858  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS       1.85607  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    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             4 Warning Message(s)
```

```
A Total of         2028 Informational Message(s)

A Total of        43824 Hours Were Processed

A Total of          978 Calm Hours Identified

A Total of         1050 Missing Hours Identified (  2.40 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186     760       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187     760       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:      14010101
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

```
**
***************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons PM10\13697 Cons PM10.ADI
**
***************************************
**
**
***************************************
** AERMOD Control Pathway
***************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons PM10.err"
CO FINISHED
**
***************************************
** AERMOD Source Pathway
***************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1       VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2       VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1       VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2       VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3       VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4       VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5       VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6       VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1       VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2       VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1       VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2       VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3       VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4       VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5       VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6       VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7       VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8       VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9       VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10      VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11      VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12      VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13      VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14      VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15      VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16      VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17      VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18      VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19      VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20      VOLUME     475689.035  3746191.893      469.000
```

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   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
   LOCATION B13DUST      AREAPOLY   476007.118  3745359.932      465.420
   LOCATION B14DUST      AREAPOLY   475821.186  3745614.341      466.620
   LOCATION B17DUST      AREAPOLY   475828.442  3746166.240      466.250
   LOCATION B18DUST      AREAPOLY   475605.324  3746536.290      469.000
** Source Parameters **
   SRCPARAM B13_1        0.0007874868     5.000    44.819     1.400
   SRCPARAM B13_2        0.0007874868     5.000    44.819     1.400
   SRCPARAM B14_1        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_2        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_3        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_4        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_5        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_6        0.0002624955     5.000    27.337     1.400
   SRCPARAM B17_1        0.0007874868     5.000    44.726     1.400
   SRCPARAM B17_2        0.0007874868     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000629989     5.000    12.365     1.400
   SRCPARAM B13DUST      1.2178E-06     0.000         4     1.000
   AREAVERT B13DUST      476007.118 3745359.932 476195.771 3745359.932
   AREAVERT B13DUST      476198.038 3744975.825 476005.304 3744976.278
   SRCPARAM B14DUST      1.1371E-06     0.000        22     1.000
   AREAVERT B14DUST      475821.186 3745614.341 475967.211 3745614.341
   AREAVERT B14DUST      475987.618 3745616.155 476008.478 3745622.050
   AREAVERT B14DUST      476029.793 3745631.120 476053.374 3745643.364
   AREAVERT B14DUST      476101.444 3745578.062 476130.468 3745539.061
   AREAVERT B14DUST      476151.328 3745508.677 476171.735 3745475.119
   AREAVERT B14DUST      476180.352 3745454.258 476188.515 3745427.956
   AREAVERT B14DUST      476194.864 3745391.677 476195.317 3745383.514
   AREAVERT B14DUST      476170.375 3745382.153 475910.524 3745383.060
   AREAVERT B14DUST      475899.640 3745380.793 475880.594 3745375.351
   AREAVERT B14DUST      475860.640 3745370.362 475849.303 3745370.362
   AREAVERT B14DUST      475822.547 3745365.374 475819.372 3745371.723
   SRCPARAM B17DUST      1.3622E-06     0.000         7     1.000
   AREAVERT B17DUST      475828.442 3746166.240 475830.710 3746353.079
   AREAVERT B17DUST      476130.468 3746354.893 476196.224 3746166.694
   AREAVERT B17DUST      476163.573 3746166.240 476165.387 3746158.984
   AREAVERT B17DUST      475828.896 3746157.170
   SRCPARAM B18DUST      1.497E-06     0.000        13     1.000
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   AREAVERT B18DUST      475605.324 3746536.290 475659.743 3746536.290
   AREAVERT B18DUST      475659.290 3746456.021 475654.301 3746449.219
   AREAVERT B18DUST      475657.476 3746438.789 475663.371 3746431.986
   AREAVERT B18DUST      475669.267 3746430.626 475678.337 3746431.533
   AREAVERT B18DUST      475693.302 3746436.975 475798.058 3746436.068
   AREAVERT B18DUST      475802.140 3746431.533 475804.407 3746158.077
   AREAVERT B18DUST      475608.952 3746158.984
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2 B13DUST
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6 B14DUST
   SRCGROUP B17      B17_1 B17_2 B17DUST
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP B18      B18DUST
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons PM10.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 CONS PM10.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 CONS PM10.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 CONS PM10.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 CONS PM10.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 CONS PM10.AD\24H_B18.PLT" 35
   SUMMFILE "13697 Cons 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
**
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** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Cons PM10\13697 Cons PM10.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Cons PM10.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1       VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2       VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1       VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2       VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3       VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4       VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5       VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6       VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1       VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2       VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1       VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2       VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3       VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4       VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5       VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6       VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7       VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8       VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9       VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10      VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11      VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12      VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13      VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14      VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15      VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16      VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17      VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18      VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19      VOLUME     475635.866  3746187.323      469.300
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   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
   LOCATION B13DUST      AREAPOLY   476007.118  3745359.932      465.420
   LOCATION B14DUST      AREAPOLY   475821.186  3745614.341      466.620
   LOCATION B17DUST      AREAPOLY   475828.442  3746166.240      466.250
   LOCATION B18DUST      AREAPOLY   475605.324  3746536.290      469.000
** Source Parameters **
   SRCPARAM B13_1        0.0007874868     5.000    44.819     1.400
   SRCPARAM B13_2        0.0007874868     5.000    44.819     1.400
   SRCPARAM B14_1        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_2        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_3        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_4        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_5        0.0002624955     5.000    27.337     1.400
   SRCPARAM B14_6        0.0002624955     5.000    27.337     1.400
   SRCPARAM B17_1        0.0007874868     5.000    44.726     1.400
   SRCPARAM B17_2        0.0007874868     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000629989     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000629989     5.000    12.365     1.400
   SRCPARAM B13DUST      1.2178E-06     0.000         4     1.000
   AREAVERT B13DUST      476007.118 3745359.932 476195.771 3745359.932
   AREAVERT B13DUST      476198.038 3744975.825 476005.304 3744976.278
   SRCPARAM B14DUST      1.1371E-06     0.000        22     1.000
   AREAVERT B14DUST      475821.186 3745614.341 475967.211 3745614.341
   AREAVERT B14DUST      475987.618 3745616.155 476008.478 3745622.050
   AREAVERT B14DUST      476029.793 3745631.120 476053.374 3745643.364
   AREAVERT B14DUST      476101.444 3745578.062 476130.468 3745539.061
   AREAVERT B14DUST      476151.328 3745508.677 476171.735 3745475.119
   AREAVERT B14DUST      476180.352 3745454.258 476188.515 3745427.956
   AREAVERT B14DUST      476194.864 3745391.677 476195.317 3745383.514
   AREAVERT B14DUST      476170.375 3745382.153 475910.524 3745383.060
   AREAVERT B14DUST      475899.640 3745380.793 475880.594 3745375.351
   AREAVERT B14DUST      475860.640 3745370.362 475849.303 3745370.362
   AREAVERT B14DUST      475822.547 3745365.374 475819.372 3745371.723
   SRCPARAM B17DUST      1.3622E-06     0.000         7     1.000
   AREAVERT B17DUST      475828.442 3746166.240 475830.710 3746353.079
   AREAVERT B17DUST      476130.468 3746354.893 476196.224 3746166.694
   AREAVERT B17DUST      476163.573 3746166.240 476165.387 3746158.984
   AREAVERT B17DUST      475828.896 3746157.170
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   SRCPARAM B18DUST      1.497E-06     0.000        13     1.000
   AREAVERT B18DUST      475605.324 3746536.290 475659.743 3746536.290
   AREAVERT B18DUST      475659.290 3746456.021 475654.301 3746449.219
   AREAVERT B18DUST      475657.476 3746438.789 475663.371 3746431.986
   AREAVERT B18DUST      475669.267 3746430.626 475678.337 3746431.533
   AREAVERT B18DUST      475693.302 3746436.975 475798.058 3746436.068
   AREAVERT B18DUST      475802.140 3746431.533 475804.407 3746158.077
   AREAVERT B18DUST      475608.952 3746158.984
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_1        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_1        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_2        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_2        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_3        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_3        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_4        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_4        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_5        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_5        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_6        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_6        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_7        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_7        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_8        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_8        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_9        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_9        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_10       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_10       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_11       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_11       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT B18_12       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_12       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_13       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_14       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_15       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_16       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_22       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_22       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_23       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_23       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_24       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_24       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18_25       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
```

```
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18_25       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B13DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B13DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B14DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B14DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B17DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B17DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT B18DUST      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT B18DUST      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP B13      B13_1 B13_2 B13DUST
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6 B14DUST
   SRCGROUP B17      B17_1 B17_2 B17DUST
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP B18      B18DUST
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Cons PM10.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 CONS PM10.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 CONS PM10.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 CONS PM10.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 CONS PM10.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 CONS PM10.AD\24H_B18.PLT" 35
   SUMMFILE "13697 Cons PM10.sum"
OU FINISHED


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

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

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


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

```
   ********   WARNING MESSAGES   ********
 ME W186     760       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     760       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       15:36:41

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

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

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for    39 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:     39 Source(s);       5 Source Group(s); and      78 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:     35 VOLUME source(s)
               and:      4 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 RLINE/RLINEXT source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
               and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
```

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

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

**Detailed Error/Message File:   13697 Cons
PM10.err
**File for Summary of Results:   13697 Cons
PM10.sum
```

```
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                           ***        15:36:41

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


                                                   *** VOLUME SOURCE DATA ***

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

 B13_1            0   0.78749E-03  476101.1 3745262.2   464.0     5.00    44.82     1.40
 YES   HRDOW
 B13_2            0   0.78749E-03  476102.0 3745072.0   465.9     5.00    44.82     1.40
 YES   HRDOW
 B14_1            0   0.26250E-03  475881.8 3745554.6   466.0     5.00    27.34     1.40
 YES   HRDOW
 B14_2            0   0.26250E-03  475881.2 3745437.3   468.2     5.00    27.34     1.40
 YES   HRDOW
 B14_3            0   0.26250E-03  475999.6 3745554.0   464.7     5.00    27.34     1.40
 YES   HRDOW
 B14_4            0   0.26250E-03  476000.0 3745437.7   465.7     5.00    27.34     1.40
 YES   HRDOW
 B14_5            0   0.26250E-03  476071.8 3745548.2   464.0     5.00    27.34     1.40
 YES   HRDOW
 B14_6            0   0.26250E-03  476118.4 3745439.0   463.0     5.00    27.34     1.40
 YES   HRDOW
 B17_1            0   0.78749E-03  475926.0 3746256.1   465.0     5.00    44.73     1.40
 YES   HRDOW
 B17_2            0   0.78749E-03  476070.8 3746258.4   463.0     5.00    44.73     1.40
 YES   HRDOW
 B18_1            0   0.62999E-04  475632.5 3746502.6   469.1     5.00    12.37     1.40
 YES   HRDOW
 B18_2            0   0.62999E-04  475633.4 3746447.8   469.9     5.00    12.37     1.40
 YES   HRDOW
```

```
 B18_3           0   0.62999E-04  475638.8 3746403.3   469.7     5.00    12.37     1.40
 YES   HRDOW
 B18_4           0   0.62999E-04  475681.1 3746405.0   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_5           0   0.62999E-04  475727.7 3746410.8   467.7     5.00    12.37     1.40
 YES   HRDOW
 B18_6           0   0.62999E-04  475775.0 3746409.1   466.4     5.00    12.37     1.40
 YES   HRDOW
 B18_7           0   0.62999E-04  475640.0 3746350.6   469.9     5.00    12.37     1.40
 YES   HRDOW
 B18_8           0   0.62999E-04  475690.3 3746353.5   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_9           0   0.62999E-04  475774.6 3746355.1   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_10          0   0.62999E-04  475731.0 3746357.2   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_11          0   0.62999E-04  475639.2 3746296.6   469.7     5.00    12.37     1.40
 YES   HRDOW
 B18_12          0   0.62999E-04  475689.9 3746300.7   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_13          0   0.62999E-04  475740.5 3746303.6   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_14          0   0.62999E-04  475774.6 3746301.6   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_15          0   0.62999E-04  475637.5 3746242.6   469.8     5.00    12.37     1.40
 YES   HRDOW
 B18_16          0   0.62999E-04  475683.6 3746246.3   469.1     5.00    12.37     1.40
 YES   HRDOW
 B18_17          0   0.62999E-04  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES   HRDOW
 B18_18          0   0.62999E-04  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES   HRDOW
 B18_19          0   0.62999E-04  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES   HRDOW
 B18_20          0   0.62999E-04  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_21          0   0.62999E-04  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES   HRDOW
 B18_22          0   0.62999E-04  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES   HRDOW
 B18_23          0   0.62999E-04  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES   HRDOW
 B18_24          0   0.62999E-04  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES   HRDOW
 B18_25          0   0.62999E-04  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                              *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER      INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X         Y      ELEV.    HEIGHT  OF VERTS.     SZ
   SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
     (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
```

```
 B13DUST          0   0.12178E-05  476007.1 3745359.9   465.4     0.00       4         1.00
 YES   HRDOW
 B14DUST          0   0.11371E-05  475821.2 3745614.3   466.6     0.00      22         1.00
 YES   HRDOW
 B17DUST          0   0.13622E-05  475828.4 3746166.2   466.2     0.00       7         1.00
 YES   HRDOW
 B18DUST          0   0.14970E-05  475605.3 3746536.3   469.0     0.00      13         1.00
 YES   HRDOW
```

```
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

```
                                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13         B13_1       , B13_2       , B13DUST     ,

  B14         B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,
  B14DUST     ,

  B17         B17_1       , B17_2       , B17DUST     ,

  B18         B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

              B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
              B18_15      , B18_16      ,

              B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
              B18_23      , B18_24      ,

              B18_25      , B18DUST     ,

  ALL         B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

              B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
              B18_5       , B18_6       ,

              B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
              B18_13      , B18_14      ,

              B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
              B18_21      , B18_22      ,

              B18_23      , B18_24      , B18_25      , B13DUST     , B14DUST     , B17DUST     ,
              B18DUST     ,
```

```
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

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

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


               2189641.   B13_1       , B13_2       , B14_1       , B14_2       , B14_3       ,
               B14_4       , B14_5       ,
 B14_6       ,

              B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
              B18_5       , B18_6       ,

              B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
              B18_13      , B18_14      ,

              B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
              B18_21      , B18_22      ,

              B18_23      , B18_24      , B18_25      , B13DUST     , B14DUST     , B17DUST     ,
              B18DUST     ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

                       PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B13_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

                       PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

```
 SOURCE ID = B13_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***       15:36:41

                     PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
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*** AERMET - VERSION  16216 ***
***                                                                          ***        15:36:41

                     PAGE   9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = B14_2        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
*** AERMET - VERSION  16216 ***
***                                                                          ***        15:36:41

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

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

SOURCE ID = B14_3        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        15:36:41

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

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

 SOURCE ID = B14_4        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        15:36:41

                     PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B14_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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

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

 SOURCE ID = B14_6        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```


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

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

 SOURCE ID = B17_1        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
 - - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

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

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

 SOURCE ID = B17_2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

                        PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

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

SOURCE ID = B18_1 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_2 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        15:36:41

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

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

 SOURCE ID = B18_3        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        15:36:41

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

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

 SOURCE ID = B18_4        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       15:36:41

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

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

 SOURCE ID = B18_5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       15:36:41

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

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

 SOURCE ID = B18_6        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        15:36:41

                      PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_7        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        15:36:41

                      PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_8        ; SOURCE TYPE = VOLUME   :
```

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

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

SOURCE ID = B18_9 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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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                    PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

 SOURCE ID = B18_10       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        15:36:41

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

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

 SOURCE ID = B18_11       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_12 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_13 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -

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

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

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

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

 SOURCE ID = B18_14       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

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

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

 SOURCE ID = B18_15       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
```

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

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

SOURCE ID = B18_16   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
.1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
.0000E+00   23 .0000E+00   24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
.0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
.0000E+00   15 .0000E+00   16 .0000E+00
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 FLGPOL URBAN ADJ_U*

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

(HRDOW) *

SOURCE ID = B18_17 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
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 = B18_18 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -
- - - - - - - - - - - - - - - - - -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   15:36:41

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

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

SOURCE ID = B18_19   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
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 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   15:36:41

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

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

SOURCE ID = B18_20   ; SOURCE TYPE = VOLUME   :
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

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

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

SOURCE ID = B18_21 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

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

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

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

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

SOURCE ID = B18_22 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR
SCALAR HOUR SCALAR HOUR SCALAR
- -

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

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

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

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

 SOURCE ID = B18_23       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   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 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        15:36:41

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

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

 SOURCE ID = B18_24       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

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

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

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

SOURCE ID = B18_25       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = B13DUST      ; SOURCE TYPE = AREAPOLY :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

SOURCE ID = B14DUST      ; SOURCE TYPE = AREAPOLY :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

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

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

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

SOURCE ID = B17DUST ; SOURCE TYPE = AREAPOLY :

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

- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = B18DUST ; SOURCE TYPE = AREAPOLY :

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

- -

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14

```
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        15:36:41

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

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

     ( 476395.7, 3744607.8,     462.5,     462.5,       2.0);         ( 476314.7, 3744669.6,
     463.2,     463.2,       2.0);
     ( 476332.8, 3744655.3,     463.0,     463.0,       2.0);         ( 476366.0, 3744513.7,
     463.2,     463.2,       2.0);
     ( 476245.9, 3744942.5,     463.5,     463.5,       2.0);         ( 476289.5, 3745000.4,
     463.0,     463.0,       2.0);
     ( 476288.5, 3745361.6,     461.2,     461.2,       2.0);         ( 475880.7, 3745148.5,
     468.0,     468.0,       2.0);
     ( 475796.7, 3745058.2,     469.6,     469.6,       2.0);         ( 475750.0, 3745108.9,
     470.0,     470.0,       2.0);
     ( 475798.5, 3745194.1,     469.1,     469.1,       2.0);         ( 475752.4, 3745335.1,
     469.9,     469.9,       2.0);
     ( 475776.9, 3745405.8,     470.0,     470.0,       2.0);         ( 475731.8, 3745293.2,
     470.6,     470.6,       2.0);
     ( 475784.8, 3745574.2,     467.8,     467.8,       2.0);         ( 475709.8, 3745574.8,
     469.3,     469.3,       2.0);
     ( 475708.9, 3745598.8,     469.4,     469.4,       2.0);         ( 475709.4, 3745621.8,
     469.2,     469.2,       2.0);
     ( 475709.4, 3745647.0,     469.0,     469.0,       2.0);         ( 475709.1, 3745668.2,
     469.0,     469.0,       2.0);
     ( 475710.0, 3745693.7,     469.3,     469.3,       2.0);         ( 475709.4, 3745717.0,
     469.4,     469.4,       2.0);
     ( 475709.1, 3745739.8,     469.4,     469.4,       2.0);         ( 475777.8, 3745697.3,
     468.0,     468.0,       2.0);
     ( 475785.3, 3745721.7,     467.8,     467.8,       2.0);         ( 475794.2, 3745802.0,
     467.5,     467.5,       2.0);
     ( 475778.8, 3745842.0,     468.0,     468.0,       2.0);         ( 475800.0, 3745888.8,
     467.3,     467.3,       2.0);
     ( 475790.0, 3745940.2,     467.0,     467.0,       2.0);         ( 475892.2, 3745936.4,
     465.2,     465.2,       2.0);
     ( 475893.3, 3746111.5,     465.0,     465.0,       2.0);         ( 476130.1, 3746085.0,
     462.0,     462.0,       2.0);
     ( 476129.7, 3745935.0,     462.0,     462.0,       2.0);         ( 475595.7, 3746575.8,
     469.1,     469.1,       2.0);
     ( 475911.0, 3746495.7,     464.0,     464.0,       2.0);         ( 475863.3, 3746556.4,
     464.5,     464.5,       2.0);
     ( 475594.2, 3746890.1,     468.4,     468.4,       2.0);         ( 476146.4, 3746600.5,
     460.7,     460.7,       2.0);
     ( 476082.9, 3746873.9,     459.9,     459.9,       2.0);         ( 475609.1, 3746999.9,
     467.0,     467.0,       2.0);
     ( 475745.2, 3747048.2,     464.2,     464.2,       2.0);         ( 475382.0, 3746161.0,
     476.1,     476.1,       2.0);
     ( 475411.0, 3746003.0,     475.3,     475.3,       2.0);         ( 474409.0, 3746437.3,
     518.9,     524.0,       2.0);
```

```
    ( 476290.4, 3746244.9,     460.0,     460.0,       2.0);          ( 476339.3, 3746119.1,
    460.0,     460.0,       2.0);
    ( 476311.4, 3746179.4,     460.0,     460.0,       2.0);          ( 476277.8, 3746288.2,
    460.0,     460.0,       2.0);
    ( 476333.6, 3746432.9,     459.0,     459.0,       2.0);          ( 476384.2, 3745949.3,
    460.0,     460.0,       2.0);
    ( 476360.3, 3745999.4,     460.0,     460.0,       2.0);          ( 476412.9, 3745836.5,
    460.0,     460.0,       2.0);
    ( 476404.8, 3745918.6,     460.0,     460.0,       2.0);          ( 476434.1, 3745820.9,
    460.0,     460.0,       2.0);
    ( 476454.9, 3745720.5,     459.0,     459.0,       2.0);          ( 475797.4, 3744976.8,
    471.0,     471.0,       2.0);
    ( 476060.4, 3744909.2,     466.7,     466.7,       2.0);          ( 475777.3, 3744882.4,
    472.0,     472.0,       2.0);
    ( 475781.9, 3744832.1,     471.9,     471.9,       2.0);          ( 475779.6, 3744791.2,
    472.0,     472.0,       2.0);
    ( 475786.0, 3744729.8,     472.0,     472.0,       2.0);          ( 475774.6, 3744924.7,
    471.8,     471.8,       2.0);
    ( 475782.2, 3744693.9,     472.0,     472.0,       2.0);          ( 475768.2, 3744638.7,
    473.0,     473.0,       2.0);
    ( 475787.2, 3744589.0,     472.1,     472.1,       2.0);          ( 475706.3, 3744502.2,
    473.1,     473.1,       2.0);
    ( 475780.2, 3744427.1,     473.0,     473.0,       2.0);          ( 475764.1, 3744390.6,
    473.5,     473.5,       2.0);
    ( 477060.8, 3744371.8,     455.0,     455.0,       2.0);          ( 476803.5, 3745166.9,
    456.0,     456.0,       2.0);
    ( 477112.7, 3745115.0,     453.6,     453.6,       2.0);          ( 477464.4, 3745086.8,
    450.0,     450.0,       2.0);
    ( 477531.6, 3745005.5,     450.0,     450.0,       2.0);          ( 475715.5, 3746455.6,
    468.1,     468.1,       2.0);
    ( 475792.0, 3746459.3,     466.3,     466.3,       2.0);          ( 475771.3, 3746506.7,
    466.3,     466.3,       2.0);
    ( 475775.2, 3746458.3,     466.7,     466.7,       2.0);          ( 475750.4, 3746454.3,
    467.0,     467.0,       2.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                     ***        15:36:41

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

                                             *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                 (1=YES; 0=NO)

             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1  1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

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

```
                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                                  (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       15:36:41

                      PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

   Surface file:
   PERI_V9_ADJU\PERI_v9.SFC                                                              Met
   Version:  16216
   Profile file:
   PERI_V9_ADJU\PERI_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:     3171                    Upper air station no.:     3190
                  Name: UNKNOWN                                     Name:
                  UNKNOWN
                  Year:   2010                                      Year:   2010

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -
 10 01 01   1 01   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 335.    9.1  282.5    5.5
 10 01 01   1 02   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 142.    9.1  280.9    5.5
 10 01 01   1 03   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 324.    9.1  280.4    5.5
 10 01 01   1 04   -1.3  0.064 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 294.    9.1  278.8    5.5
 10 01 01   1 05   -3.9  0.088 -9.000 -9.000 -999.   62.     15.0  0.19   0.61   1.00    0.90
 205.    9.1  278.1    5.5
 10 01 01   1 06   -1.3  0.065 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 3.    9.1  277.0    5.5
 10 01 01   1 07   -8.0  0.125 -9.000 -9.000 -999.  106.     21.0  0.19   0.61   1.00    1.30
 99.    9.1  277.0    5.5
 10 01 01   1 08   -3.3  0.086 -9.000 -9.000 -999.   61.     16.8  0.19   0.61   0.54    0.90
 319.    9.1  278.8    5.5
 10 01 01   1 09   20.1  0.128  0.307  0.010   49.  110.     -9.0  0.19   0.61   0.33    0.90
 239.    9.1  284.2    5.5
 10 01 01   1 10   56.7  0.087  0.560  0.010  107.   62.     -1.0  0.19   0.61   0.26    0.40
 188.    9.1  289.2    5.5
 10 01 01   1 11   81.5  0.323  0.867  0.008  277.  441.    -35.9  0.19   0.61   0.23    2.70
 310.    9.1  290.9    5.5
 10 01 01   1 12   97.1  0.281  1.058  0.008  421.  357.    -19.7  0.19   0.61   0.22    2.20
 357.    9.1  293.1    5.5
 10 01 01   1 13   92.2  0.279  1.117  0.008  523.  354.    -20.4  0.19   0.61   0.22    2.20
 356.    9.1  293.8    5.5
 10 01 01   1 14   77.6  0.275  1.102  0.008  595.  347.    -23.2  0.19   0.61   0.23    2.20
 50.    9.1  294.2    5.5
 10 01 01   1 15   54.9  0.230  1.006  0.008  640.  266.    -19.2  0.19   0.61   0.27    1.80
 53.    9.1  293.8    5.5
```

```
10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61   0.36    1.80
11.    9.1  292.5    5.5
10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61   0.64    0.90
351.    9.1  290.4    5.5
10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
186.    9.1  287.5    5.5
10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
275.    9.1  285.9    5.5
10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
181.    9.1  285.4    5.5
10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
318.    9.1  284.9    5.5
10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
196.    9.1  283.1    5.5
10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
330.    9.1  281.4    5.5
10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
332.    9.1  280.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
*** AERMET - VERSION  16216 ***
***                                                                   ***        15:36:41

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

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  B13      ***
                                  INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                                  B13DUST     ,

                                             *** 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)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
       476395.71   3744607.81        0.23958  (14120124)                476314.71
       3744669.61         0.31927  (14120124)
       476332.85   3744655.27        0.30193  (14120124)                476365.97
       3744513.73         0.18464  (14120124)
       476245.90   3744942.48        1.04145  (14120124)                476289.52
       3745000.38         0.61558  (14120424)
       476288.55   3745361.57        0.69236  (15122224)                475880.74
       3745148.55         0.88642  (10121524)
       475796.73   3745058.23        0.39802c (10122124)                475750.05
       3745108.89         0.30700  (10121524)
       475798.54   3745194.08        0.61774  (10121524)                475752.37
       3745335.13         0.55418  (10121524)
       475776.90   3745405.80        0.52154  (10121524)                475731.82
       3745293.23         0.52902  (10121524)
       475784.75   3745574.23        0.23787  (16010524)                475709.78
       3745574.77         0.14618  (11051724)
       475708.88   3745598.80        0.13976  (11051724)                475709.42
       3745621.76         0.13383  (11051724)
```

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      475709.42   3745647.05        0.14211  (16010524)                    475709.06
      3745668.21         0.15172  (16010524)
      475709.96   3745693.68        0.16361  (16010524)                    475709.42
      3745717.00         0.17126  (16010524)
      475709.06   3745739.77        0.17729  (16010524)                    475777.75
      3745697.27         0.26225  (16010524)
      475785.29   3745721.66        0.26807  (16010524)                    475794.25
      3745802.05         0.23677  (16010524)
      475778.85   3745842.00        0.21065  (16010524)                    475800.05
      3745888.80         0.18039  (16010524)
      475789.98   3745940.18        0.15307  (16010524)                    475892.19
      3745936.40         0.15269  (10012024)
      475893.32   3746111.50        0.09890  (10012024)                    476130.12
      3746085.01         0.22348c (10121724)
      476129.71   3745935.03        0.29050c (10121724)                    475595.68
      3746575.78         0.04627c (14012124)
      475911.01   3746495.74        0.08064  (11121924)                    475863.30
      3746556.38         0.07095  (11121924)
      475594.25   3746890.12        0.04527  (14123024)                    476146.43
      3746600.47         0.12052c (10121724)
      476082.93   3746873.86        0.08429c (10121724)                    475609.08
      3746999.92         0.04619  (14123024)
      475745.21   3747048.16        0.04740  (11121924)                    475382.02
      3746160.96         0.07045b (14120224)
      475411.04   3746003.05        0.07955c (14010324)                    474409.00
      3746437.28         0.03417  (10012724)
      476290.36   3746244.91        0.12001c (10121724)                    476339.29
      3746119.15         0.09016c (16012224)
      476311.38   3746179.40        0.10671c (10121724)                    476277.82
      3746288.18         0.12554c (10121724)
      476333.63   3746432.95        0.08699c (10121724)                    476384.17
      3745949.30         0.09884  (10100524)
      476360.32   3745999.45        0.09505  (10100524)                    476412.89
      3745836.48         0.11614c (11030724)
      476404.80   3745918.57        0.10017c (10020924)                    476434.06
      3745820.87         0.12103c (11030724)
      476454.86   3745720.49        0.14592c (11030724)                    475797.42
      3744976.75         0.38067c (14012424)
      476060.39   3744909.25        1.38703  (16122224)                    475777.26
      3744882.37         0.28199c (14012424)
      475781.93   3744832.11        0.26045m (15123124)                    475779.60
      3744791.20         0.23946m (15123124)
      475786.02   3744729.84        0.19763m (15123124)                    475774.63
      3744924.73         0.32030c (14012424)
      475782.23   3744693.90        0.17701c (15012824)                    475768.20
      3744638.68         0.14949c (15012824)
      475787.19   3744589.00        0.13862c (15012824)                    475706.26
      3744502.22         0.09591c (15012824)
      475780.18   3744427.13        0.08824c (15012824)                    475764.11
      3744390.61         0.07993c (15012824)
      477060.85   3744371.76        0.03761  (11011924)                    476803.53
      3745166.88         0.06959  (14040124)
      477112.67   3745114.97        0.03665  (14040124)                    477464.43
      3745086.80         0.02373m (10120824)
      477531.57   3745005.51        0.02344m (10120824)                    475715.48
      3746455.63         0.05900  (14123024)
      475791.98   3746459.29        0.06612  (14123024)                    475771.33
      3746506.69         0.06358  (14123024)
      475775.18   3746458.34        0.06523  (14123024)                    475750.42
      3746454.29         0.06324  (14123024)
```

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

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B14 ***
INCLUDING SOURCE(S): B14_1 , B14_2 , B14_3 , B14_4 , B14_5 , B14_6 , B14DUST ,

*** 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)
476395.71	3744607.81	0.09427	(14120124)	476314.71	3744669.61	0.10058	(16122224)
476332.85	3744655.27	0.09666c	(14110324)	476365.97	3744513.73	0.07631c	(14110324)
476245.90	3744942.48	0.20581	(14120124)	476289.52	3745000.38	0.24630	(14120124)
476288.55	3745361.57	0.53600	(14040124)	475880.74	3745148.55	0.37074m	(10120724)
475796.73	3745058.23	0.21492c	(15012824)	475750.05	3745108.89	0.26925c	(15012824)
475798.54	3745194.08	0.42669c	(15012824)	475752.37	3745335.13	0.79235m	(15123124)
475776.90	3745405.80	1.23253c	(14012424)	475731.82	3745293.23	0.57454m	(15123124)
475784.75	3745574.23	2.08180	(10121524)	475709.78	3745574.77	1.13092	(10121524)
475708.88	3745598.80	1.12867	(10121524)	475709.42	3745621.76	1.09695	(10121524)
475709.42	3745647.05	1.00477	(10121524)	475709.06	3745668.21	0.88379	(10121524)
475709.96	3745693.68	0.71028	(10121524)	475709.42	3745717.00	0.55312	(10121524)
475709.06	3745739.77	0.41964	(10121524)	475777.75	3745697.27	0.90875	(16010524)
475785.29	3745721.66	0.87976	(16010524)	475794.25	3745802.05	0.63797	(16010524)
475778.85	3745842.00	0.52628	(16010524)	475800.05	3745888.80	0.46491	(16010524)
475789.98	3745940.18	0.38248	(16010524)	475892.19	3745936.40	0.36772c	(10121724)
475893.32	3746111.50	0.23791c	(10121724)	476130.12	3746085.01	0.23149c	(10121724)
476129.71	3745935.03	0.31647c	(10121724)	475595.68	3746575.78	0.06575	(10012024)
475911.01	3746495.74	0.13574c	(10121724)	475863.30	3746556.38	0.10293c	(10121724)
475594.25	3746890.12	0.05490	(14123024)	476146.43	3746600.47	0.12486c	(10121724)
476082.93	3746873.86	0.11352c	(10121724)	475609.08	3746999.92	0.05400	(14123024)
475745.21	3747048.16	0.06192	(11121924)	475382.02	3746160.96	0.09123c	(14010324)
475411.04	3746003.05	0.09621c	(14010324)	474409.00	3746437.28	0.03562b	(14021824)
476290.36	3746244.91	0.09101c	(10020924)	476339.29	3746119.15	0.11310c	(11030724)
476311.38	3746179.40	0.09649c	(10020924)	476277.82	3746288.18	0.08485c	(10020924)
476333.63	3746432.95	0.06202c	(10020924)	476384.17			

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      3745949.30        0.13740c (10033124)
      476360.32   3745999.45        0.14068c (11030724)                476412.89
      3745836.48        0.13104c (10033124)
      476404.80   3745918.57        0.13644c (10033124)                476434.06
      3745820.87        0.12018  (14013124)
      476454.86   3745720.49        0.14277c (10012924)                475797.42
      3744976.75        0.14896c (15012824)
      476060.39   3744909.25        0.27501  (16122224)                475777.26
      3744882.37        0.10729  (14112424)
      475781.93   3744832.11        0.09842b (10120624)                475779.60
      3744791.20        0.09100b (10120624)
      475786.02   3744729.84        0.08471b (10120624)                475774.63
      3744924.73        0.12395c (15012824)
      475782.23   3744693.90        0.07924b (10120624)                475768.20
      3744638.68        0.06981b (10120624)
      475787.19   3744589.00        0.06958b (10120624)                475706.26
      3744502.22        0.05792c (16031824)
      475780.18   3744427.13        0.05655b (10120624)                475764.11
      3744390.61        0.05408c (16031824)
      477060.85   3744371.76        0.03569  (16122024)                476803.53
      3745166.88        0.06273  (14040124)
      477112.67   3745114.97        0.03920  (14040124)                477464.43
      3745086.80        0.02524  (14040124)
      477531.57   3745005.51        0.02367  (10021524)                475715.48
      3746455.63        0.08616  (10012024)
      475791.98   3746459.29        0.09616  (11121924)                475771.33
      3746506.69        0.08763  (11121924)
      475775.18   3746458.34        0.09181  (11121924)                475750.42
      3746454.29        0.08467  (11121924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        15:36:41

                        PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B17      ***
                                    INCLUDING SOURCE(S):     B17_1       , B17_2       ,
                                    B17DUST     ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        0.07226  (16122224)                476314.71
      3744669.61        0.08219  (16122224)
      476332.85   3744655.27        0.08043  (16122224)                476365.97
      3744513.73        0.07252  (16122224)
      476245.90   3744942.48        0.10321  (16122224)                476289.52
      3745000.38        0.10351  (16122224)
      476288.55   3745361.57        0.12358  (16122224)                475880.74
      3745148.55        0.05843b (10120624)
      475796.73   3745058.23        0.05051b (10120624)                475750.05
      3745108.89        0.05224c (16031824)
      475798.54   3745194.08        0.05804b (10120624)                475752.37
      3745335.13        0.06333c (16031824)
      475776.90   3745405.80        0.06982b (10120624)                475731.82
      3745293.23        0.06015c (16031824)
      475784.75   3745574.23        0.09236b (10120624)                475709.78
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      3745574.77        0.09201c (15012824)
      475708.88   3745598.80        0.09913c (15012824)                 475709.42
      3745621.76        0.10665c (15012824)
      475709.42   3745647.05        0.11584c (15012824)                 475709.06
      3745668.21        0.12423c (15012824)
      475709.96   3745693.68        0.13513c (15012824)                 475709.42
      3745717.00        0.14629c (15012824)
      475709.06   3745739.77        0.15820c (15012824)                 475777.75
      3745697.27        0.13256c (15012824)
      475785.29   3745721.66        0.14486c (15012824)                 475794.25
      3745802.05        0.20178c (15012824)
      475778.85   3745842.00        0.24088c (15012824)                 475800.05
      3745888.80        0.30104c (15012824)
      475789.98   3745940.18        0.38494c (15012824)                 475892.19
      3745936.40        0.42524m (10120724)
      475893.32   3746111.50        1.84909  (16122224)                 476130.12
      3746085.01        1.24314  (16122224)
      476129.71   3745935.03        0.52984  (16122224)                 475595.68
      3746575.78        0.23677  (10121524)
      475911.01   3746495.74        0.99501  (16010524)                 475863.30
      3746556.38        0.71589  (16010524)
      475594.25   3746890.12        0.17747  (16010524)                 476146.43
      3746600.47        0.42076c (10121724)
      476082.93   3746873.86        0.27681c (10121724)                 475609.08
      3746999.92        0.15619  (16010524)
      475745.21   3747048.16        0.11960  (10012024)                 475382.02
      3746160.96        0.13657c (14120324)
      475411.04   3746003.05        0.19533  (16110924)                 474409.00
      3746437.28        0.04656c (15120924)
      476290.36   3746244.91        0.59961  (14040124)                 476339.29
      3746119.15        0.41190  (14040124)
      476311.38   3746179.40        0.62259  (14040124)                 476277.82
      3746288.18        0.49989c (16030724)
      476333.63   3746432.95        0.28275  (14013124)                 476384.17
      3745949.30        0.23895m (10052024)
      476360.32   3745999.45        0.29614m (10052024)                 476412.89
      3745836.48        0.15974b (10102124)
      476404.80   3745918.57        0.20575m (10052024)                 476434.06
      3745820.87        0.14296c (16011924)
      476454.86   3745720.49        0.12727b (10102124)                 475797.42
      3744976.75        0.04698c (16031824)
      476060.39   3744909.25        0.06521  (16122224)                 475777.26
      3744882.37        0.04406c (16031824)
      475781.93   3744832.11        0.04252c (16031824)                 475779.60
      3744791.20        0.04141c (16031824)
      475786.02   3744729.84        0.03971c (16031824)                 475774.63
      3744924.73        0.04543c (16031824)
      475782.23   3744693.90        0.03889c (16031824)                 475768.20
      3744638.68        0.03778c (16031824)
      475787.19   3744589.00        0.03645c (16031824)                 475706.26
      3744502.22        0.03554c (16031824)
      475780.18   3744427.13        0.03343c (16031824)                 475764.11
      3744390.61        0.03303c (16031824)
      477060.85   3744371.76        0.02639c (14110324)                 476803.53
      3745166.88        0.04275  (14120124)
      477112.67   3745114.97        0.03522  (16122024)                 477464.43
      3745086.80        0.02583  (16122024)
      477531.57   3745005.51        0.02560  (16122024)                 475715.48
      3746455.63        0.65901  (10121524)
      475791.98   3746459.29        0.93802  (16010524)                 475771.33
      3746506.69        0.68487  (16010524)
      475775.18   3746458.34        0.80717  (16010524)                 475750.42
      3746454.29        0.63659  (10121524)
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B18 ***
INCLUDING SOURCE(S): B18_1 , B18_2 , B18_3 , B18_4 , B18_5 ,
B18_6 , B18_7 , B18_8 , B18_9 , B18_10 ,
B18_11 , B18_12 , B18_13 ,
B18_14 , B18_15 , B18_16 , B18_17 , B18_18 ,
B18_19 , B18_20 , B18_21 ,
B18_22 , B18_23 , B18_24 , B18_25 , B18DUST ,

*** 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)
476395.71	3744607.81	0.03500c	(14110324)	476314.71	3744669.61	0.03562c	(14110324)
476332.85	3744655.27	0.03552c	(14110324)	476365.97	3744513.73	0.03105c	(14110324)
476245.90	3744942.48	0.04809c	(14110324)	476289.52	3745000.38	0.05355	(14120124)
476288.55	3745361.57	0.07308	(14120124)	475880.74	3745148.55	0.13173	(16122224)
475796.73	3745058.23	0.08977	(16122224)	475750.05	3745108.89	0.07576	(16122224)
475798.54	3745194.08	0.11355	(16122224)	475752.37	3745335.13	0.11840	(16122224)
475776.90	3745405.80	0.15861	(16122224)	475731.82	3745293.23	0.09414	(16122224)
475784.75	3745574.23	0.24918	(16122224)	475709.78	3745574.77	0.16266	(16122224)
475708.88	3745598.80	0.17377	(16122224)	475709.42	3745621.76	0.18777	(16122224)
475709.42	3745647.05	0.20394	(16122224)	475709.06	3745668.21	0.21825	(16122224)
475709.96	3745693.68	0.23971	(16122224)	475709.42	3745717.00	0.25932	(16122224)
475709.06	3745739.77	0.28114	(16122224)	475777.75	3745697.27	0.34174	(16122224)
475785.29	3745721.66	0.37101	(16122224)	475794.25	3745802.05	0.46481	(16122224)
475778.85	3745842.00	0.52791	(16122224)	475800.05	3745888.80	0.58665	(16122224)
475789.98	3745940.18	0.71378	(16122224)	475892.19	3745936.40	0.52431	(14120124)
475893.32	3746111.50	0.73223	(14120424)	476130.12	3746085.01	0.18110	(15121424)
476129.71	3745935.03	0.16995m	(10052024)	475595.68	3746575.78	2.18148	(16010524)
475911.01	3746495.74	0.56716	(15122224)	475863.30	3746556.38	0.61426	(11112424)
475594.25	3746890.12	0.26965	(11121924)	476146.43	3746600.47	0.13280	(14013124)
476082.93	3746873.86	0.12792c	(11030724)	475609.08	3746999.92	0.21816c	(10121724)
475745.21	3747048.16	0.29597c	(10121724)	475382.02	3746160.96	0.39337c	(14012424)

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      475411.04   3746003.05       0.31683m (15123124)                474409.00
      3746437.28        0.05516c (15120924)
      476290.36   3746244.91       0.13233  (14040124)                476339.29
      3746119.15        0.12123  (14040124)
      476311.38   3746179.40       0.13609  (14040124)                476277.82
      3746288.18        0.11889  (14040124)
      476333.63   3746432.95       0.07091c (10012924)                476384.17
      3745949.30        0.08029  (15121424)
      476360.32   3745999.45       0.08271  (15121424)                476412.89
      3745836.48        0.06835  (15111624)
      476404.80   3745918.57       0.07617  (15121424)                476434.06
      3745820.87        0.06436  (15111624)
      476454.86   3745720.49       0.05299  (15111624)                475797.42
      3744976.75        0.07961  (16122224)
      476060.39   3744909.25       0.09026  (16122224)                475777.26
      3744882.37        0.06348  (16122224)
      475781.93   3744832.11       0.06107  (16122224)                475779.60
      3744791.20        0.05749  (16122224)
      475786.02   3744729.84       0.05535  (16122224)                475774.63
      3744924.73        0.06620  (16122224)
      475782.23   3744693.90       0.05227  (16122224)                475768.20
      3744638.68        0.04480  (16122224)
      475787.19   3744589.00       0.04800  (16122224)                475706.26
      3744502.22        0.03154c (15021824)
      475780.18   3744427.13       0.03911  (16122224)                475764.11
      3744390.61        0.03458  (16122224)
      477060.85   3744371.76       0.01998  (10111824)                476803.53
      3745166.88        0.03539  (16122024)
      477112.67   3745114.97       0.02838  (16122024)                477464.43
      3745086.80        0.01925c (10050324)
      477531.57   3745005.51       0.01856c (10050324)                475715.48
      3746455.63        3.51491  (11121924)
      475791.98   3746459.29       2.52922c (10020924)                475771.33
      3746506.69        1.62221c (10121724)
      475775.18   3746458.34       2.92453c (10121724)                475750.42
      3746454.29        3.48158c (10121724)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        15:36:41

                      PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                                  B14_1       , B14_2       , B14_3       ,
                  B14_4       , B14_5       , B14_6       , B17_1       , B17_2       ,
                  B18_1       , B18_2       , B18_3       ,
                  B18_4       , B18_5       , B18_6       , B18_7       , B18_8       ,
                  B18_9       , B18_10      , B18_11      ,
                  B18_12      , B18_13      , B18_14      , B18_15      , B18_16      ,
                  B18_17      , B18_18      ,  . . .      ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - 
      476395.71   3744607.81       0.37445  (14120124)                476314.71
      3744669.61        0.45015  (14120124)
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476332.85   3744655.27        0.43430  (14120124)                        476365.97
3744513.73        0.29985  (16122224)
476245.90   3744942.48        1.30067  (14120124)                        476289.52
3745000.38        0.85031  (14120124)
476288.55   3745361.57        0.76665  (15122224)                        475880.74
3745148.55        0.90532  (10121524)
475796.73   3745058.23        0.41184c (10122124)                        475750.05
3745108.89        0.37670c (15012824)
475798.54   3745194.08        0.65596  (10121524)                        475752.37
3745335.13        0.84669m (15123124)
475776.90   3745405.80        1.34405  (10121524)                        475731.82
3745293.23        0.63697m (15123124)
475784.75   3745574.23        2.18153  (10121524)                        475709.78
3745574.77        1.28026  (10121524)
475708.88   3745598.80        1.24151  (10121524)                        475709.42
3745621.76        1.18154  (10121524)
475709.42   3745647.05        1.06639  (10121524)                        475709.06
3745668.21        0.93172  (10121524)
475709.96   3745693.68        0.74655  (10121524)                        475709.42
3745717.00        0.58329  (10121524)
475709.06   3745739.77        0.55896  (16010524)                        475777.75
3745697.27        1.17115  (16010524)
475785.29   3745721.66        1.14800  (16010524)                        475794.25
3745802.05        0.87499  (16010524)
475778.85   3745842.00        0.73721  (16010524)                        475800.05
3745888.80        0.68852  (16122224)
475789.98   3745940.18        0.83307  (16122224)                        475892.19
3745936.40        0.65373  (16122224)
475893.32   3746111.50        1.99422b (10120624)                        476130.12
3746085.01        1.25308b (10120624)
476129.71   3745935.03        0.60888c (10121724)                        475595.68
3746575.78        2.36442  (16010524)
475911.01   3746495.74        1.14688c (10121724)                        475863.30
3746556.38        0.89691c (10121724)
475594.25   3746890.12        0.42563  (11121924)                        476146.43
3746600.47        0.67349c (10121724)
476082.93   3746873.86        0.50410c (10121724)                        475609.08
3746999.92        0.35323  (11121924)
475745.21   3747048.16        0.41015c (10121724)                        475382.02
3746160.96        0.47754  (16110924)
475411.04   3746003.05        0.45779c (10122124)                        474409.00
3746437.28        0.12750c (15120924)
476290.36   3746244.91        0.73200  (14040124)                        476339.29
3746119.15        0.53320  (14040124)
476311.38   3746179.40        0.75874  (14040124)                        476277.82
3746288.18        0.57593  (14040124)
476333.63   3746432.95        0.34878c (10012924)                        476384.17
3745949.30        0.32778m (10052024)
476360.32   3745999.45        0.38134m (10052024)                        476412.89
3745836.48        0.26294c (15122824)
476404.80   3745918.57        0.29361m (10052024)                        476434.06
3745820.87        0.25229c (15122824)
476454.86   3745720.49        0.25552c (15122824)                        475797.42
3744976.75        0.40606c (14012424)
476060.39   3744909.25        1.81751  (16122224)                        475777.26
3744882.37        0.33495c (11010324)
475781.93   3744832.11        0.32446c (15012824)                        475779.60
3744791.20        0.30839c (15012824)
475786.02   3744729.84        0.28422c (15012824)                        475774.63
3744924.73        0.35149c (11010324)
475782.23   3744693.90        0.26261c (15012824)                        475768.20
3744638.68        0.22782c (15012824)
475787.19   3744589.00        0.21434c (15120124)                        475706.26
3744502.22        0.17723c (15120124)
475780.18   3744427.13        0.17653c (16031824)                        475764.11
3744390.61        0.17161c (16031824)
```

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       477060.85   3744371.76       0.09474  (16122024)               476803.53
       3745166.88        0.13246  (14040124)
       477112.67   3745114.97       0.09173  (10021524)               477464.43
       3745086.80        0.06783  (10021524)
       477531.57   3745005.51       0.06768  (10021524)               475715.48
       3746455.63        3.86267  (11121924)
       475791.98   3746459.29       2.72411c (10121724)               475771.33
       3746506.69        1.83813c (10121724)
       475775.18   3746458.34       3.18792c (10121724)               475750.42
       3746454.29        3.72260  (11121924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        15:36:41

                      PAGE  53
 *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -


B13      HIGH   1ST HIGH VALUE IS       1.38703  ON 16122224: AT (  476060.39,  3744909.25,
466.65,   466.65,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS       2.08180  ON 10121524: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS       1.84909  ON 16122224: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS       3.51491  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS       3.86267  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        15:36:41

                      PAGE  54
 *** 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            4 Warning Message(s)
```

```
A Total of         2028 Informational Message(s)

A Total of        43824 Hours Were Processed

A Total of          978 Calm Hours Identified

A Total of         1050 Missing Hours Identified (  2.40 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186     760       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187     760       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:      14010101
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/17/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops CO\13697 Ops CO.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops CO.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
```

```
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0461152243     5.000    44.819     1.400
   SRCPARAM B13_2        0.0461152243     5.000    44.819     1.400
   SRCPARAM B14_1        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_2        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_3        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_4        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_5        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_6        0.0176397033     5.000    27.337     1.400
   SRCPARAM B17_1        0.0383033557     5.000    44.726     1.400
   SRCPARAM B17_2        0.0383033557     5.000    44.726     1.400
   SRCPARAM B18_1        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_2        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_3        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_4        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_5        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_6        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_7        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_8        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_9        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_10       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_11       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_12       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_13       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_14       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_15       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_16       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_17       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_18       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_19       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_20       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_21       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_22       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_23       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_24       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_25       0.0038177358     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops CO.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
```

```
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
   PLOTFILE 1 ALL 1ST "13697 OPS CO.AD\1H_ALL.PLT" 31
   PLOTFILE 8 ALL 1ST "13697 OPS CO.AD\8H_ALL.PLT" 32
   PLOTFILE 8 B13 1ST "13697 OPS CO.AD\8H_B13.PLT" 33
   PLOTFILE 1 B13 1ST "13697 OPS CO.AD\1H_B13.PLT" 34
   PLOTFILE 1 B14 1ST "13697 OPS CO.AD\1H_B14.PLT" 35
   PLOTFILE 8 B14 1ST "13697 OPS CO.AD\8H_B14.PLT" 36
   PLOTFILE 8 B17 1ST "13697 OPS CO.AD\8H_B17.PLT" 37
   PLOTFILE 1 B17 1ST "13697 OPS CO.AD\1H_B17.PLT" 38
   PLOTFILE 1 B18 1ST "13697 OPS CO.AD\1H_B18.PLT" 39
   PLOTFILE 8 B18 1ST "13697 OPS CO.AD\8H_B18.PLT" 40
   SUMMFILE "13697 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
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/17/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops CO\13697 Ops CO.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops CO.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1       VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2       VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1       VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2       VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3       VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4       VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5       VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6       VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1       VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2       VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1       VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2       VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3       VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4       VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5       VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6       VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7       VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8       VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9       VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10      VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11      VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12      VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13      VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14      VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15      VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16      VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17      VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18      VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19      VOLUME     475635.866  3746187.323      469.300
```

```
   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0461152243     5.000    44.819     1.400
   SRCPARAM B13_2        0.0461152243     5.000    44.819     1.400
   SRCPARAM B14_1        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_2        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_3        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_4        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_5        0.0176397033     5.000    27.337     1.400
   SRCPARAM B14_6        0.0176397033     5.000    27.337     1.400
   SRCPARAM B17_1        0.0383033557     5.000    44.726     1.400
   SRCPARAM B17_2        0.0383033557     5.000    44.726     1.400
   SRCPARAM B18_1        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_2        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_3        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_4        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_5        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_6        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_7        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_8        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_9        0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_10       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_11       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_12       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_13       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_14       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_15       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_16       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_17       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_18       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_19       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_20       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_21       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_22       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_23       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_24       0.0038177358     5.000    12.365     1.400
   SRCPARAM B18_25       0.0038177358     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops CO.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
```

```
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
   PLOTFILE 1 ALL 1ST "13697 OPS CO.AD\1H_ALL.PLT" 31
   PLOTFILE 8 ALL 1ST "13697 OPS CO.AD\8H_ALL.PLT" 32
   PLOTFILE 8 B13 1ST "13697 OPS CO.AD\8H_B13.PLT" 33
   PLOTFILE 1 B13 1ST "13697 OPS CO.AD\1H_B13.PLT" 34
   PLOTFILE 1 B14 1ST "13697 OPS CO.AD\1H_B14.PLT" 35
   PLOTFILE 8 B14 1ST "13697 OPS CO.AD\8H_B14.PLT" 36
   PLOTFILE 8 B17 1ST "13697 OPS CO.AD\8H_B17.PLT" 37
   PLOTFILE 1 B17 1ST "13697 OPS CO.AD\1H_B17.PLT" 38
   PLOTFILE 1 B18 1ST "13697 OPS CO.AD\1H_B18.PLT" 39
   PLOTFILE 8 B18 1ST "13697 OPS CO.AD\8H_B18.PLT" 40
   SUMMFILE "13697 Ops CO.sum"
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 ME W186     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***       17:33:11

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

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

 ** Model Options Selected:
```

```
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    35 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO

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

**This Run Includes:     35 Source(s);       5 Source Group(s); and      78 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:     35 VOLUME source(s)
               and:      0 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 RLINE/RLINEXT source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
               and:      0 SWPOINT source(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

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

**Detailed Error/Message File:   13697 Ops
CO.err
**File for Summary of Results:   13697 Ops
```

```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        17:33:11

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


                                                     *** VOLUME SOURCE DATA ***

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

 B13_1            0   0.46115E-01  476101.1 3745262.2   464.0     5.00    44.82     1.40
 YES
 B13_2            0   0.46115E-01  476102.0 3745072.0   465.9     5.00    44.82     1.40
 YES
 B14_1            0   0.17640E-01  475881.8 3745554.6   466.0     5.00    27.34     1.40
 YES
 B14_2            0   0.17640E-01  475881.2 3745437.3   468.2     5.00    27.34     1.40
 YES
 B14_3            0   0.17640E-01  475999.6 3745554.0   464.7     5.00    27.34     1.40
 YES
 B14_4            0   0.17640E-01  476000.0 3745437.7   465.7     5.00    27.34     1.40
 YES
 B14_5            0   0.17640E-01  476071.8 3745548.2   464.0     5.00    27.34     1.40
 YES
 B14_6            0   0.17640E-01  476118.4 3745439.0   463.0     5.00    27.34     1.40
 YES
 B17_1            0   0.38303E-01  475926.0 3746256.1   465.0     5.00    44.73     1.40
 YES
 B17_2            0   0.38303E-01  476070.8 3746258.4   463.0     5.00    44.73     1.40
 YES
 B18_1            0   0.38177E-02  475632.5 3746502.6   469.1     5.00    12.37     1.40
 YES
 B18_2            0   0.38177E-02  475633.4 3746447.8   469.9     5.00    12.37     1.40
 YES
 B18_3            0   0.38177E-02  475638.8 3746403.3   469.7     5.00    12.37     1.40
 YES
 B18_4            0   0.38177E-02  475681.1 3746405.0   469.0     5.00    12.37     1.40
 YES
 B18_5            0   0.38177E-02  475727.7 3746410.8   467.7     5.00    12.37     1.40
 YES
 B18_6            0   0.38177E-02  475775.0 3746409.1   466.4     5.00    12.37     1.40
 YES
 B18_7            0   0.38177E-02  475640.0 3746350.6   469.9     5.00    12.37     1.40
 YES
 B18_8            0   0.38177E-02  475690.3 3746353.5   469.0     5.00    12.37     1.40
 YES
 B18_9            0   0.38177E-02  475774.6 3746355.1   467.2     5.00    12.37     1.40
 YES
 B18_10           0   0.38177E-02  475731.0 3746357.2   468.0     5.00    12.37     1.40
 YES
 B18_11           0   0.38177E-02  475639.2 3746296.6   469.7     5.00    12.37     1.40
 YES
 B18_12           0   0.38177E-02  475689.9 3746300.7   469.0     5.00    12.37     1.40
 YES
 B18_13           0   0.38177E-02  475740.5 3746303.6   468.0     5.00    12.37     1.40
```

```
 YES
 B18_14           0   0.38177E-02  475774.6 3746301.6   467.2     5.00    12.37     1.40
 YES
 B18_15           0   0.38177E-02  475637.5 3746242.6   469.8     5.00    12.37     1.40
 YES
 B18_16           0   0.38177E-02  475683.6 3746246.3   469.1     5.00    12.37     1.40
 YES
 B18_17           0   0.38177E-02  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES
 B18_18           0   0.38177E-02  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES
 B18_19           0   0.38177E-02  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES
 B18_20           0   0.38177E-02  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES
 B18_21           0   0.38177E-02  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES
 B18_22           0   0.38177E-02  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES
 B18_23           0   0.38177E-02  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES
 B18_24           0   0.38177E-02  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES
 B18_25           0   0.38177E-02  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       17:33:11

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                             *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13        B13_1       , B13_2       ,

  B14        B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,

  B17        B17_1       , B17_2       ,

  B18        B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

             B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
             B18_15      , B18_16      ,

             B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
             B18_23      , B18_24      ,

             B18_25      ,

  ALL        B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

             B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
             B18_5       , B18_6       ,

             B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
             B18_13      , B18_14      ,
```

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          B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
          B18_21      , B18_22      ,

          B18_23      , B18_24      , B18_25      ,
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       17:33:11

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


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

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


           2189641.   B13_1       , B13_2       , B14_1       , B14_2       , B14_3       ,
           B14_4       , B14_5       ,
 B14_6       ,

          B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
          B18_5       , B18_6       ,

          B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
          B18_13      , B18_14      ,

          B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
          B18_21      , B18_22      ,

          B18_23      , B18_24      , B18_25      ,
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       17:33:11

                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

     ( 476395.7, 3744607.8,     462.5,     462.5,       2.0);         ( 476314.7, 3744669.6,
     463.2,     463.2,       2.0);
     ( 476332.8, 3744655.3,     463.0,     463.0,       2.0);         ( 476366.0, 3744513.7,
     463.2,     463.2,       2.0);
     ( 476245.9, 3744942.5,     463.5,     463.5,       2.0);         ( 476289.5, 3745000.4,
     463.0,     463.0,       2.0);
     ( 476288.5, 3745361.6,     461.2,     461.2,       2.0);         ( 475880.7, 3745148.5,
     468.0,     468.0,       2.0);
     ( 475796.7, 3745058.2,     469.6,     469.6,       2.0);         ( 475750.0, 3745108.9,
     470.0,     470.0,       2.0);
     ( 475798.5, 3745194.1,     469.1,     469.1,       2.0);         ( 475752.4, 3745335.1,
     469.9,     469.9,       2.0);
     ( 475776.9, 3745405.8,     470.0,     470.0,       2.0);         ( 475731.8, 3745293.2,
     470.6,     470.6,       2.0);
     ( 475784.8, 3745574.2,     467.8,     467.8,       2.0);         ( 475709.8, 3745574.8,
     469.3,     469.3,       2.0);
     ( 475708.9, 3745598.8,     469.4,     469.4,       2.0);         ( 475709.4, 3745621.8,
     469.2,     469.2,       2.0);
     ( 475709.4, 3745647.0,     469.0,     469.0,       2.0);         ( 475709.1, 3745668.2,
     469.0,     469.0,       2.0);
     ( 475710.0, 3745693.7,     469.3,     469.3,       2.0);         ( 475709.4, 3745717.0,
```

```
    469.4,     469.4,       2.0);
    ( 475709.1, 3745739.8,     469.4,     469.4,       2.0);          ( 475777.8, 3745697.3,
    468.0,     468.0,       2.0);
    ( 475785.3, 3745721.7,     467.8,     467.8,       2.0);          ( 475794.2, 3745802.0,
    467.5,     467.5,       2.0);
    ( 475778.8, 3745842.0,     468.0,     468.0,       2.0);          ( 475800.0, 3745888.8,
    467.3,     467.3,       2.0);
    ( 475790.0, 3745940.2,     467.0,     467.0,       2.0);          ( 475892.2, 3745936.4,
    465.2,     465.2,       2.0);
    ( 475893.3, 3746111.5,     465.0,     465.0,       2.0);          ( 476130.1, 3746085.0,
    462.0,     462.0,       2.0);
    ( 476129.7, 3745935.0,     462.0,     462.0,       2.0);          ( 475595.7, 3746575.8,
    469.1,     469.1,       2.0);
    ( 475911.0, 3746495.7,     464.0,     464.0,       2.0);          ( 475863.3, 3746556.4,
    464.5,     464.5,       2.0);
    ( 475594.2, 3746890.1,     468.4,     468.4,       2.0);          ( 476146.4, 3746600.5,
    460.7,     460.7,       2.0);
    ( 476082.9, 3746873.9,     459.9,     459.9,       2.0);          ( 475609.1, 3746999.9,
    467.0,     467.0,       2.0);
    ( 475745.2, 3747048.2,     464.2,     464.2,       2.0);          ( 475382.0, 3746161.0,
    476.1,     476.1,       2.0);
    ( 475411.0, 3746003.0,     475.3,     475.3,       2.0);          ( 474409.0, 3746437.3,
    518.9,     524.0,       2.0);
    ( 476290.4, 3746244.9,     460.0,     460.0,       2.0);          ( 476339.3, 3746119.1,
    460.0,     460.0,       2.0);
    ( 476311.4, 3746179.4,     460.0,     460.0,       2.0);          ( 476277.8, 3746288.2,
    460.0,     460.0,       2.0);
    ( 476333.6, 3746432.9,     459.0,     459.0,       2.0);          ( 476384.2, 3745949.3,
    460.0,     460.0,       2.0);
    ( 476360.3, 3745999.4,     460.0,     460.0,       2.0);          ( 476412.9, 3745836.5,
    460.0,     460.0,       2.0);
    ( 476404.8, 3745918.6,     460.0,     460.0,       2.0);          ( 476434.1, 3745820.9,
    460.0,     460.0,       2.0);
    ( 476454.9, 3745720.5,     459.0,     459.0,       2.0);          ( 475797.4, 3744976.8,
    471.0,     471.0,       2.0);
    ( 476060.4, 3744909.2,     466.7,     466.7,       2.0);          ( 475777.3, 3744882.4,
    472.0,     472.0,       2.0);
    ( 475781.9, 3744832.1,     471.9,     471.9,       2.0);          ( 475779.6, 3744791.2,
    472.0,     472.0,       2.0);
    ( 475786.0, 3744729.8,     472.0,     472.0,       2.0);          ( 475774.6, 3744924.7,
    471.8,     471.8,       2.0);
    ( 475782.2, 3744693.9,     472.0,     472.0,       2.0);          ( 475768.2, 3744638.7,
    473.0,     473.0,       2.0);
    ( 475787.2, 3744589.0,     472.1,     472.1,       2.0);          ( 475706.3, 3744502.2,
    473.1,     473.1,       2.0);
    ( 475780.2, 3744427.1,     473.0,     473.0,       2.0);          ( 475764.1, 3744390.6,
    473.5,     473.5,       2.0);
    ( 477060.8, 3744371.8,     455.0,     455.0,       2.0);          ( 476803.5, 3745166.9,
    456.0,     456.0,       2.0);
    ( 477112.7, 3745115.0,     453.6,     453.6,       2.0);          ( 477464.4, 3745086.8,
    450.0,     450.0,       2.0);
    ( 477531.6, 3745005.5,     450.0,     450.0,       2.0);          ( 475715.5, 3746455.6,
    468.1,     468.1,       2.0);
    ( 475792.0, 3746459.3,     466.3,     466.3,       2.0);          ( 475771.3, 3746506.7,
    466.3,     466.3,       2.0);
    ( 475775.2, 3746458.3,     466.7,     466.7,       2.0);          ( 475750.4, 3746454.3,
    467.0,     467.0,       2.0);
```


*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

```
                                                                 (1=YES; 0=NO)

              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

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



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                              (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        17:33:11

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

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

   Surface file:
   PERI_V9_ADJU\PERI_v9.SFC                                                             Met
   Version:  16216
   Profile file:
   PERI_V9_ADJU\PERI_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:     3171                    Upper air station no.:     3190
                  Name: UNKNOWN                                      Name:
                  UNKNOWN
                  Year:   2010                                       Year:   2010

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -
 10 01 01   1 01   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 335.    9.1  282.5    5.5
 10 01 01   1 02   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 142.    9.1  280.9    5.5
 10 01 01   1 03   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 324.    9.1  280.4    5.5
 10 01 01   1 04   -1.3  0.064 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
```

```
294.    9.1  278.8    5.5
10 01 01   1 05   -3.9  0.088 -9.000 -9.000 -999.   62.     15.0  0.19   0.61   1.00    0.90
205.    9.1  278.1    5.5
10 01 01   1 06   -1.3  0.065 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
3.    9.1  277.0    5.5
10 01 01   1 07   -8.0  0.125 -9.000 -9.000 -999.  106.     21.0  0.19   0.61   1.00    1.30
99.    9.1  277.0    5.5
10 01 01   1 08   -3.3  0.086 -9.000 -9.000 -999.   61.     16.8  0.19   0.61   0.54    0.90
319.    9.1  278.8    5.5
10 01 01   1 09   20.1  0.128  0.307  0.010   49.  110.     -9.0  0.19   0.61   0.33    0.90
239.    9.1  284.2    5.5
10 01 01   1 10   56.7  0.087  0.560  0.010  107.   62.     -1.0  0.19   0.61   0.26    0.40
188.    9.1  289.2    5.5
10 01 01   1 11   81.5  0.323  0.867  0.008  277.  441.    -35.9  0.19   0.61   0.23    2.70
310.    9.1  290.9    5.5
10 01 01   1 12   97.1  0.281  1.058  0.008  421.  357.    -19.7  0.19   0.61   0.22    2.20
357.    9.1  293.1    5.5
10 01 01   1 13   92.2  0.279  1.117  0.008  523.  354.    -20.4  0.19   0.61   0.22    2.20
356.    9.1  293.8    5.5
10 01 01   1 14   77.6  0.275  1.102  0.008  595.  347.    -23.2  0.19   0.61   0.23    2.20
50.    9.1  294.2    5.5
10 01 01   1 15   54.9  0.230  1.006  0.008  640.  266.    -19.2  0.19   0.61   0.27    1.80
53.    9.1  293.8    5.5
10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61   0.36    1.80
11.    9.1  292.5    5.5
10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61   0.64    0.90
351.    9.1  290.4    5.5
10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
186.    9.1  287.5    5.5
10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
275.    9.1  285.9    5.5
10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
181.    9.1  285.4    5.5
10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
318.    9.1  284.9    5.5
10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
196.    9.1  283.1    5.5
10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
330.    9.1  281.4    5.5
10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
332.    9.1  280.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
*** AERMET - VERSION  16216 ***
***                                                                   ***        17:33:11

                     PAGE   8
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  B13      ***
                                 INCLUDING SOURCE(S):     B13_1       , B13_2       ,

                                           *** 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)
476395.71	3744607.81	1.45832	(10041918)	476314.71	3744669.61	2.02504	(14021817)
476332.85	3744655.27	1.89045	(14021817)	476365.97	3744513.73	1.20226	(14021817)
476245.90	3744942.48	7.63951	(16050618)	476289.52	3745000.38	7.64827	(11091107)
476288.55	3745361.57	7.32743	(14041207)	475880.74	3745148.55	5.88564	(16010616)
475796.73	3745058.23	4.02208	(15101319)	475750.05	3745108.89	3.73025	(11081820)
475798.54	3745194.08	4.10838	(11082922)	475752.37	3745335.13	3.81315	(14083119)
475776.90	3745405.80	3.95390	(15083019)	475731.82	3745293.23	3.80429	(11070820)
475784.75	3745574.23	2.28848	(16010516)	475709.78	3745574.77	2.65408	(10081623)
475708.88	3745598.80	2.57904	(14072520)	475709.42	3745621.76	2.47692	(10061520)
475709.42	3745647.05	2.35430	(10061520)	475709.06	3745668.21	2.26655	(10062522)
475709.96	3745693.68	2.25565	(10092720)	475709.42	3745717.00	2.21887	(10092720)
475709.06	3745739.77	2.15943	(10092720)	475777.75	3745697.27	2.05189	(16010516)
475785.29	3745721.66	1.94668	(16010516)	475794.25	3745802.05	1.45054	(11050420)
475778.85	3745842.00	1.35945	(11050420)	475800.05	3745888.80	1.22989	(16061020)
475789.98	3745940.18	0.73119	(15100407)	475892.19	3745936.40	1.08609	(16123116)
475893.32	3746111.50	0.81825	(16123116)	476130.12	3746085.01	0.79555	(10082818)
476129.71	3745935.03	1.14165	(14113016)	475595.68	3746575.78	0.76826	(11082720)
475911.01	3746495.74	0.37731	(11070120)	475863.30	3746556.38	0.37473	(16123116)
475594.25	3746890.12	0.39275	(14072723)	476146.43	3746600.47	0.33326	(10082818)
476082.93	3746873.86	0.26556	(10082818)	475609.08	3746999.92	0.23738	(16123116)
475745.21	3747048.16	0.22946	(16123116)	475382.02	3746160.96	1.58262	(10092720)
475411.04	3746003.05	1.74928	(15083119)	474409.00	3746437.28	1.26657	(15062220)
476290.36	3746244.91	0.83331	(14113016)	476339.29	3746119.15	0.96018	(14113016)
476311.38	3746179.40	0.92270	(14113016)	476277.82	3746288.18	0.76676	(14113016)
476333.63	3746432.95	0.61931	(14113016)	476384.17	3745949.30	0.90893	(14113016)
476360.32	3745999.45	1.01313	(14113016)	476412.89	3745836.48	1.14609	(15050818)
476404.80	3745918.57	0.90917	(16082607)	476434.06	3745820.87	1.22402	(15050818)
476454.86	3745720.49	1.45295	(15050818)	475797.42	3744976.75	4.33529	(16071821)
476060.39	3744909.25	7.50626	(14111116)	475777.26	3744882.37	4.13748	(15090905)
475781.93	3744832.11	3.96860	(15070120)	475779.60	3744791.20	3.81135	(15090820)
475786.02	3744729.84	3.51725	(15090904)	475774.63	3744924.73	4.15881	(16110820)

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       475782.23   3744693.90       3.29937  (15090904)                   475768.20
       3744638.68         3.13194  (15102819)
       475787.19   3744589.00       2.84407  (15090823)                   475706.26
       3744502.22         2.42921  (11090705)
       475780.18   3744427.13       2.36824  (15090720)                   475764.11
       3744390.61         2.28804  (15090720)
       477060.85   3744371.76       0.60191  (16050618)                   476803.53
       3745166.88         0.84402  (14022617)
       477112.67   3745114.97       0.50911  (11062522)                   477464.43
       3745086.80         0.33849  (11062522)
       477531.57   3745005.51       0.31263  (16082707)                   475715.48
       3746455.63         0.59071  (14072723)
       475791.98   3746459.29       0.46941  (16123116)                   475771.33
       3746506.69         0.43512  (16123116)
       475775.18   3746458.34       0.46098  (16123116)                   475750.42
       3746454.29         0.43992  (16123116)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        17:33:11

                        PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B14      ***
                                    INCLUDING SOURCE(S):     B14_1       , B14_2       ,
                                    B14_3       , B14_4       , B14_5       ,
                   B14_6       ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       476395.71   3744607.81       0.69129  (14021817)                   476314.71
       3744669.61         0.79200  (14090307)
       476332.85   3744655.27       0.73803  (14090307)                   476365.97
       3744513.73         0.60530  (14090307)
       476245.90   3744942.48       1.56742  (14021817)                   476289.52
       3745000.38         1.75308  (14021817)
       476288.55   3745361.57       6.96177  (11091107)                   475880.74
       3745148.55         3.25002  (15051418)
       475796.73   3745058.23       3.07204  (14090219)                   475750.05
       3745108.89         3.32033  (15090904)
       475798.54   3745194.08       4.15568  (16092520)                   475752.37
       3745335.13         9.73414  (11010316)
       475776.90   3745405.80      10.72490  (11010316)                   475731.82
       3745293.23         7.71574  (11010316)
       475784.75   3745574.23      13.54425  (16010616)                   475709.78
       3745574.77         6.99418  (14070720)
       475708.88   3745598.80       6.81027  (14083119)                   475709.42
       3745621.76         7.15754  (14090218)
       475709.42   3745647.05       7.42792  (14090218)                   475709.06
       3745668.21         7.29619  (14090218)
       475709.96   3745693.68       6.84657  (14090218)                   475709.42
       3745717.00         6.18808  (14090218)
       475709.06   3745739.77       5.47265  (14090218)                   475777.75
       3745697.27         7.82511  (14090218)
       475785.29   3745721.66       6.29830  (14090218)                   475794.25
       3745802.05         4.50741  (16010516)
       475778.85   3745842.00       3.85474  (16010516)                   475800.05
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      3745888.80        3.16750  (16010516)
      475789.98   3745940.18        2.52221  (16010516)                   475892.19
      3745936.40        2.29297  (14030117)
      475893.32   3746111.50        1.43512  (16123116)                   476130.12
      3746085.01        2.19016  (14113016)
      476129.71   3745935.03        3.16845  (14113016)                   475595.68
      3746575.78        1.07750  (11082720)
      475911.01   3746495.74        0.70509  (10082818)                   475863.30
      3746556.38        0.57935  (10082818)
      475594.25   3746890.12        0.58236  (14072723)                   476146.43
      3746600.47        0.79314  (14113016)
      476082.93   3746873.86        0.42077  (14113016)                   475609.08
      3746999.92        0.38145  (11092818)
      475745.21   3747048.16        0.33460  (11070120)                   475382.02
      3746160.96        2.54051  (10100219)
      475411.04   3746003.05        2.99743  (16081820)                   474409.00
      3746437.28        1.72764  (15091322)
      476290.36   3746244.91        0.97846  (14113016)                   476339.29
      3746119.15        1.35043  (15050818)
      476311.38   3746179.40        1.10998  (16082607)                   476277.82
      3746288.18        1.01697  (14113016)
      476333.63   3746432.95        0.71603  (14113016)                   476384.17
      3745949.30        2.01490  (14041207)
      476360.32   3745999.45        1.79318  (14041207)                   476412.89
      3745836.48        2.47125  (16090507)
      476404.80   3745918.57        2.06475  (14041207)                   476434.06
      3745820.87        2.36671  (16090507)
      476454.86   3745720.49        2.24931  (16040918)                   475797.42
      3744976.75        2.89939  (15090720)
      476060.39   3744909.25        1.43546  (14091420)                   475777.26
      3744882.37        2.83977  (11080220)
      475781.93   3744832.11        2.62585  (11080220)                   475779.60
      3744791.20        2.46844  (11080220)
      475786.02   3744729.84        2.25320  (11070223)                   475774.63
      3744924.73        2.97448  (15090720)
      475782.23   3744693.90        2.13951  (11070223)                   475768.20
      3744638.68        2.11014  (11070223)
      475787.19   3744589.00        1.89448  (10082521)                   475706.26
      3744502.22        1.75920  (11070223)
      475780.18   3744427.13        1.65865  (10082521)                   475764.11
      3744390.61        1.64195  (10082521)
      477060.85   3744371.76        0.43937  (16050618)                   476803.53
      3745166.88        0.84071  (11091107)
      477112.67   3745114.97        0.49396  (15111718)                   477464.43
      3745086.80        0.33571  (15012407)
      477531.57   3745005.51        0.31434  (15111718)                   475715.48
      3746455.63        0.95662  (14072723)
      475791.98   3746459.29        0.76539  (16123116)                   475771.33
      3746506.69        0.71141  (16123116)
      475775.18   3746458.34        0.76878  (16123116)                   475750.42
      3746454.29        0.76088  (16123116)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        17:33:11

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

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  B17      ***
                                  INCLUDING SOURCE(S):     B17_1       , B17_2       ,

                                            *** 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)
476395.71	3744607.81	0.22083	(14090307)	476314.71	3744669.61	0.23346	(10071320)
476332.85	3744655.27	0.22899	(10071320)	476365.97	3744513.73	0.20288	(10071320)
476245.90	3744942.48	0.30578	(10071320)	476289.52	3745000.38	0.33425	(14090307)
476288.55	3745361.57	0.57424	(14090307)	475880.74	3745148.55	0.61950	(14091520)
475796.73	3745058.23	0.89569	(15062523)	475750.05	3745108.89	0.98881	(10082521)
475798.54	3745194.08	1.00000	(10082521)	475752.37	3745335.13	1.26269	(11070223)
475776.90	3745405.80	1.40694	(11070223)	475731.82	3745293.23	1.26120	(11070223)
475784.75	3745574.23	1.09307	(14110618)	475709.78	3745574.77	1.66406	(15090720)
475708.88	3745598.80	1.74002	(15090720)	475709.42	3745621.76	1.77607	(15090720)
475709.42	3745647.05	1.81706	(15090720)	475709.06	3745668.21	1.88695	(15090823)
475709.96	3745693.68	2.02515	(15090823)	475709.42	3745717.00	2.10838	(15090823)
475709.06	3745739.77	2.18037	(11090705)	475777.75	3745697.27	1.37962	(14091606)
475785.29	3745721.66	1.44883	(14091606)	475794.25	3745802.05	1.79667	(15051418)
475778.85	3745842.00	1.93718	(15051418)	475800.05	3745888.80	2.27437	(15051418)
475789.98	3745940.18	2.46687	(15051418)	475892.19	3745936.40	2.74854	(15051418)
475893.32	3746111.50	8.23336	(11010316)	476130.12	3746085.01	6.40525	(10020417)
476129.71	3745935.03	2.68944	(14090307)	475595.68	3746575.78	2.71063	(15082119)
475911.01	3746495.74	4.21791	(16010516)	475863.30	3746556.38	3.23749	(16010516)
475594.25	3746890.12	1.53419	(10092818)	476146.43	3746600.47	2.87567	(14113016)
476082.93	3746873.86	1.50269	(14113016)	475609.08	3746999.92	0.84610	(11050420)
475745.21	3747048.16	0.66197	(16123116)	475382.02	3746160.96	3.32171	(11082922)
475411.04	3746003.05	3.01895	(14032020)	474409.00	3746437.28	1.49391	(16102119)
476290.36	3746244.91	5.28825	(16082707)	476339.29	3746119.15	3.58556	(11091107)
476311.38	3746179.40	4.20868	(11091107)	476277.82	3746288.18	5.12960	(14022617)
476333.63	3746432.95	3.13918	(16040918)	476384.17	3745949.30	2.51125	(16050618)
476360.32	3745999.45	2.88377	(16050618)	476412.89	3745836.48	1.76903	(16050618)
476404.80	3745918.57	2.25566	(16050618)	476434.06	3745820.87	1.66719	(16050618)
476454.86	3745720.49	1.18370	(10020417)	475797.42	3744976.75	0.92730	(15062523)
476060.39	3744909.25	0.46026	(14091420)	475777.26	3744882.37	0.90666	(15062523)
475781.93	3744832.11	0.86159	(14082721)	475779.60	3744791.20	0.83436	(14082721)

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        475786.02   3744729.84        0.78975  (14082721)                    475774.63
        3744924.73        0.92976  (15062523)
        475782.23   3744693.90        0.76578  (14082721)                    475768.20
        3744638.68        0.77654  (14082721)
        475787.19   3744589.00        0.71016  (16100819)                    475706.26
        3744502.22        0.70291  (15062523)
        475780.18   3744427.13        0.66592  (16100819)                    475764.11
        3744390.61        0.66598  (16100819)
        477060.85   3744371.76        0.15647  (10082619)                    476803.53
        3745166.88        0.34931  (10020417)
        477112.67   3745114.97        0.31411  (16050618)                    477464.43
        3745086.80        0.23877  (16050618)
        477531.57   3745005.51        0.22132  (16050618)                    475715.48
        3746455.63        4.88227  (14090218)
        475791.98   3746459.29        5.21191  (14090218)                    475771.33
        3746506.69        3.86044  (16010516)
        475775.18   3746458.34        5.27758  (14090218)                    475750.42
        3746454.29        5.31568  (14090218)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        17:33:11

                        PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B18      ***
                                    INCLUDING SOURCE(S):     B18_1       , B18_2       ,
                                    B18_3       , B18_4       , B18_5       ,
                   B18_6       , B18_7       , B18_8       , B18_9       , B18_10      ,
                   B18_11      , B18_12      , B18_13      ,
                   B18_14      , B18_15      , B18_16      , B18_17      , B18_18      ,
                   B18_19      , B18_20      , B18_21      ,
                   B18_22      , B18_23      , B18_24      , B18_25      ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
        476395.71   3744607.81        0.24980  (14072920)                    476314.71
        3744669.61        0.26880  (14082820)
        476332.85   3744655.27        0.26460  (14082820)                    476365.97
        3744513.73        0.23641  (11081720)
        476245.90   3744942.48        0.34517  (14082820)                    476289.52
        3745000.38        0.35734  (15082420)
        476288.55   3745361.57        0.59145  (10083118)                    475880.74
        3745148.55        0.47924  (11062720)
        475796.73   3745058.23        0.44707  (11090621)                    475750.05
        3745108.89        0.47579  (11090621)
        475798.54   3745194.08        0.52604  (16010916)                    475752.37
        3745335.13        0.64621  (11090621)
        475776.90   3745405.80        0.77583  (16010916)                    475731.82
        3745293.23        0.75164  (14091420)
        475784.75   3745574.23        1.11662  (16010916)                    475709.78
        3745574.77        0.96097  (16010916)
        475708.88   3745598.80        1.01961  (16010916)                    475709.42
        3745621.76        1.08622  (16010916)
        475709.42   3745647.05        1.16403  (16010916)                    475709.06
        3745668.21        1.23668  (14083118)
        475709.96   3745693.68        1.34266  (14083118)                    475709.42
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      3745717.00        1.44363  (14083118)
      475709.06   3745739.77        1.55404  (14083118)                  475777.75
      3745697.27        1.54376  (16010916)
      475785.29   3745721.66        1.63974  (16010916)                  475794.25
      3745802.05        2.22843  (14090307)
      475778.85   3745842.00        2.53552  (14090307)                  475800.05
      3745888.80        3.45041  (14090307)
      475789.98   3745940.18        4.43668  (14090307)                  475892.19
      3745936.40        3.61432  (14021817)
      475893.32   3746111.50        8.86780  (16050618)                  476130.12
      3746085.01        2.54838  (11091107)
      476129.71   3745935.03        2.53613  (16050618)                  475595.68
      3746575.78        9.16126  (16010516)
      475911.01   3746495.74        6.84833  (14041207)                  475863.30
      3746556.38        6.46707  (14041207)
      475594.25   3746890.12        1.82022  (16123116)                  476146.43
      3746600.47        1.97479  (16090507)
      476082.93   3746873.86        1.33624  (14041207)                  475609.08
      3746999.92        1.22599  (10082818)
      475745.21   3747048.16        1.32495  (14113016)                  475382.02
      3746160.96        5.16666  (15101319)
      475411.04   3746003.05        4.62688  (10100118)                  474409.00
      3746437.28        1.92371  (16102119)
      476290.36   3746244.91        1.38862  (16082707)                  476339.29
      3746119.15        1.08700  (16082707)
      476311.38   3746179.40        1.32352  (16082707)                  476277.82
      3746288.18        1.32285  (14022617)
      476333.63   3746432.95        1.08315  (10020717)                  476384.17
      3745949.30        1.04960  (11091107)
      476360.32   3745999.45        1.11013  (11091107)                  476412.89
      3745836.48        0.92974  (16050618)
      476404.80   3745918.57        0.98997  (11091107)                  476434.06
      3745820.87        0.88414  (16050618)
      476454.86   3745720.49        0.97340  (16050618)                  475797.42
      3744976.75        0.53999  (11101218)
      476060.39   3744909.25        0.39414  (14090307)                  475777.26
      3744882.37        0.57418  (14091420)
      475781.93   3744832.11        0.53068  (14091420)                  475779.60
      3744791.20        0.52546  (14091420)
      475786.02   3744729.84        0.49511  (14091420)                  475774.63
      3744924.73        0.58040  (14091420)
      475782.23   3744693.90        0.48076  (14091420)                  475768.20
      3744638.68        0.69911  (10082320)
      475787.19   3744589.00        0.50141  (11091819)                  475706.26
      3744502.22        0.62958  (14091120)
      475780.18   3744427.13        0.59140  (10082320)                  475764.11
      3744390.61        0.61089  (10082320)
      477060.85   3744371.76        0.17174  (15062120)                  476803.53
      3745166.88        0.40438  (16050618)
      477112.67   3745114.97        0.32210  (16050618)                  477464.43
      3745086.80        0.19892  (11091107)
      477531.57   3745005.51        0.18369  (11091107)                  475715.48
      3746455.63       19.23805  (14041207)
      475791.98   3746459.29       19.51952  (14041207)                  475771.33
      3746506.69       11.16708  (14113016)
      475775.18   3746458.34       20.26932  (14041207)                  475750.42
      3746454.29       20.99537  (14041207)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        17:33:11

                        PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
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                         SOURCE GROUP:  ALL      ***
                             INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                             B14_1       , B14_2      , B14_3       ,
          B14_4       , B14_5       , B14_6       , B17_1       , B17_2       ,
          B18_1       , B18_2       , B18_3       ,
          B18_4       , B18_5       , B18_6       , B18_7       , B18_8       ,
          B18_9       , B18_10      , B18_11      ,
          B18_12      , B18_13      , B18_14      , B18_15      , B18_16      ,
          B18_17      , B18_18      ,  . . .      ,

                                      *** 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)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        2.41745  (14021817)                476314.71
      3744669.61         3.01541  (14021817)
      476332.85   3744655.27        2.87791  (14021817)                476365.97
      3744513.73         2.05185  (14090307)
      476245.90   3744942.48        8.35045  (10020417)                476289.52
      3745000.38         8.40072  (11091107)
      476288.55   3745361.57        8.48158  (11091107)                475880.74
      3745148.55         6.98029  (16110820)
      475796.73   3745058.23        5.13347  (15090905)                475750.05
      3745108.89         4.79762  (16071821)
      475798.54   3745194.08        5.57567  (11081820)                475752.37
      3745335.13         9.78731  (11010316)
      475776.90   3745405.80       11.47606  (16010616)                475731.82
      3745293.23         7.76751  (11010316)
      475784.75   3745574.23       14.90179  (14090218)                475709.78
      3745574.77         8.10979  (11070820)
      475708.88   3745598.80        8.39227  (14090218)                475709.42
      3745621.76         8.79178  (14090218)
      475709.42   3745647.05        8.83240  (14090218)                475709.06
      3745668.21         8.52195  (14090218)
      475709.96   3745693.68        7.87213  (14090218)                475709.42
      3745717.00         7.33105  (15092419)
      475709.06   3745739.77        7.15179  (14072520)                475777.75
      3745697.27         8.58612  (16010516)
      475785.29   3745721.66        8.15093  (16010516)                475794.25
      3745802.05         5.97464  (16010516)
      475778.85   3745842.00        5.48943  (10092720)                475800.05
      3745888.80         5.23118  (15101507)
      475789.98   3745940.18        5.62128  (15101507)                475892.19
      3745936.40         5.71521  (15101507)
      475893.32   3746111.50       11.55404  (11091107)                476130.12
      3746085.01         8.89833  (11091107)
      476129.71   3745935.03        4.80314  (15101507)                475595.68
      3746575.78        10.37495  (16010516)
      475911.01   3746495.74        8.51971  (14041207)                475863.30
      3746556.38         7.05070  (14041207)
      475594.25   3746890.12        2.89249  (10060419)                476146.43
      3746600.47         4.31317  (14041207)
      476082.93   3746873.86        2.32635  (14113016)                475609.08
      3746999.92         2.04349  (16123116)
      475745.21   3747048.16        1.80665  (11070120)                475382.02
      3746160.96         8.39976  (16062321)
      475411.04   3746003.05        6.66195  (16071821)                474409.00
      3746437.28         3.44103  (16102119)
      476290.36   3746244.91        6.70019  (16082707)                476339.29
      3746119.15         4.68335  (11091107)
      476311.38   3746179.40        5.43284  (16082707)                476277.82
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     3746288.18        6.46986  (14022617)
     476333.63   3746432.95        3.70597  (16040918)                476384.17
     3745949.30        3.23552  (16050618)
     476360.32   3745999.45        3.67796  (11091107)                476412.89
     3745836.48        3.30024  (14041207)
     476404.80   3745918.57        3.00677  (16050618)                476434.06
     3745820.87        3.19361  (14041207)
     476454.86   3745720.49        3.21765  (14041207)                475797.42
     3744976.75        5.21550  (15090820)
     476060.39   3744909.25        8.73022  (14111116)                475777.26
     3744882.37        4.99236  (15090820)
     475781.93   3744832.11        4.91753  (15090904)                475779.60
     3744791.20        4.77691  (14082320)
     475786.02   3744729.84        4.71605  (15090823)                475774.63
     3744924.73        4.98808  (15090820)
     475782.23   3744693.90        4.58454  (15090720)                475768.20
     3744638.68        4.47668  (15090720)
     475787.19   3744589.00        4.28479  (11080220)                475706.26
     3744502.22        3.75166  (15090720)
     475780.18   3744427.13        3.92784  (11070223)                475764.11
     3744390.61        3.84284  (11070223)
     477060.85   3744371.76        1.11049  (16050618)                476803.53
     3745166.88        1.50575  (15101507)
     477112.67   3745114.97        0.94468  (15012407)                477464.43
     3745086.80        0.68734  (15012407)
     477531.57   3745005.51        0.67012  (14100418)                475715.48
     3746455.63       19.68289  (14041207)
     475791.98   3746459.29       20.20070  (14041207)                475771.33
     3746506.69       11.36201  (14113016)
     475775.18   3746458.34       20.88993  (14041207)                475750.42
     3746454.29       21.54742  (14041207)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        17:33:11

                      PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  B13      ***
                                  INCLUDING SOURCE(S):     B13_1       , B13_2       ,

                                             *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
     476395.71   3744607.81        0.90091  (15101624)                476314.71
     3744669.61        1.17395  (15012508)
     476332.85   3744655.27        1.10205  (15101624)                476365.97
     3744513.73        0.79736  (15012508)
     476245.90   3744942.48        3.35954  (10020424)                476289.52
     3745000.38        3.27030m (10060508)
     476288.55   3745361.57        2.96094m (10060508)                475880.74
     3745148.55        3.32617  (16112624)
     475796.73   3745058.23        2.47149  (11010224)                475750.05
     3745108.89        2.37334  (11010224)
     475798.54   3745194.08        2.87445  (11010224)                475752.37
     3745335.13        1.91401m (10030724)
     475776.90   3745405.80        2.20030m (10060524)                475731.82
     3745293.23        2.01222  (11010224)
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475784.75   3745574.23        1.47840  (16121608)                    475709.78
3745574.77        1.42993m (10050124)
475708.88   3745598.80        1.44160  (16121608)                    475709.42
3745621.76        1.47444  (16121608)
475709.42   3745647.05        1.49380  (16121608)                    475709.06
3745668.21        1.50676  (16121608)
475709.96   3745693.68        1.53498  (16121608)                    475709.42
3745717.00        1.53044  (16121608)
475709.06   3745739.77        1.51645  (16121608)                    475777.75
3745697.27        1.40768  (16121608)
475785.29   3745721.66        1.38898  (16121608)                    475794.25
3745802.05        1.21599  (16121608)
475778.85   3745842.00        1.12968  (16121608)                    475800.05
3745888.80        1.00104  (16121608)
475789.98   3745940.18        0.52913  (10121908)                    475892.19
3745936.40        0.60420  (10121908)
475893.32   3746111.50        0.44327  (10121908)                    476130.12
3746085.01        0.51044  (16043008)
476129.71   3745935.03        0.67933  (16043008)                    475595.68
3746575.78        0.50761  (14062708)
475911.01   3746495.74        0.25300  (16052008)                    475863.30
3746556.38        0.23990  (11110408)
475594.25   3746890.12        0.27593  (10121908)                    476146.43
3746600.47        0.25648  (16043008)
476082.93   3746873.86        0.18532  (16043008)                    475609.08
3746999.92        0.15972  (10121908)
475745.21   3747048.16        0.15322  (11110408)                    475382.02
3746160.96        0.80555  (16123108)
475411.04   3746003.05        0.89848  (16123108)                    474409.00
3746437.28        0.56894m (10042324)
476290.36   3746244.91        0.37265  (16043008)                    476339.29
3746119.15        0.41921  (16112024)
476311.38   3746179.40        0.38825  (16043008)                    476277.82
3746288.18        0.35986  (16043008)
476333.63   3746432.95        0.28556  (16043008)                    476384.17
3745949.30        0.52008  (14042524)
476360.32   3745999.45        0.49515  (16112024)                    476412.89
3745836.48        0.59457  (14042524)
476404.80   3745918.57        0.53495  (14042524)                    476434.06
3745820.87        0.60201  (14013108)
476454.86   3745720.49        0.75182  (14013108)                    475797.42
3744976.75        2.39396  (16122224)
476060.39   3744909.25        3.91363m (10060508)                    475777.26
3744882.37        2.33196  (16122224)
475781.93   3744832.11        2.31361  (16122224)                    475779.60
3744791.20        2.18249  (16122224)
475786.02   3744729.84        1.92806  (16122224)                    475774.63
3744924.73        2.26097  (16122224)
475782.23   3744693.90        1.73641  (16122224)                    475768.20
3744638.68        1.50735  (16122224)
475787.19   3744589.00        1.33987  (14122324)                    475706.26
3744502.22        1.09396  (14122324)
475780.18   3744427.13        1.03473  (11010124)                    475764.11
3744390.61        0.97354  (11010124)
477060.85   3744371.76        0.23725c (14012524)                    476803.53
3745166.88        0.53902m (10060508)
477112.67   3745114.97        0.29428m (10060508)                    477464.43
3745086.80        0.18140  (11123024)
477531.57   3745005.51        0.16636  (11123024)                    475715.48
3746455.63        0.42533  (10121908)
475791.98   3746459.29        0.27371  (10121908)                    475771.33
3746506.69        0.25896  (10121908)
475775.18   3746458.34        0.27371  (10121908)                    475750.42
3746454.29        0.27353  (10121908)
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***   01/17/23

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

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B14 ***
INCLUDING SOURCE(S): B14_1 , B14_2 , B14_3 , B14_4 , B14_5 , B14_6 ,

*** 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)
476395.71	3744607.81	0.52788	(15012508)	476314.71	3744669.61	0.62881	(15012508)
476332.85	3744655.27	0.60547	(15012508)	476365.97	3744513.73	0.49415	(15012508)
476245.90	3744942.48	1.05339	(15012508)	476289.52	3745000.38	1.11809	(15101624)
476288.55	3745361.57	2.78563	(15111724)	475880.74	3745148.55	2.16401	(11010124)
475796.73	3745058.23	1.84646	(14122324)	475750.05	3745108.89	2.16296	(14122324)
475798.54	3745194.08	2.95726	(14122324)	475752.37	3745335.13	3.99039	(16122224)
475776.90	3745405.80	5.62649	(16122224)	475731.82	3745293.23	3.35440	(16122224)
475784.75	3745574.23	6.15702m	(10060508)	475709.78	3745574.77	4.08169	(11010224)
475708.88	3745598.80	3.63370	(11010224)	475709.42	3745621.76	3.36395m	(10042324)
475709.42	3745647.05	2.83756m	(10042324)	475709.06	3745668.21	3.18423m	(10060524)
475709.96	3745693.68	3.16430m	(10060524)	475709.42	3745717.00	3.04408m	(10060524)
475709.06	3745739.77	2.89127m	(10060524)	475777.75	3745697.27	3.35293m	(10060524)
475785.29	3745721.66	3.11823m	(10060524)	475794.25	3745802.05	2.46015	(16121608)
475778.85	3745842.00	2.56269	(16121608)	475800.05	3745888.80	2.06169	(16121608)
475789.98	3745940.18	1.51542	(16121608)	475892.19	3745936.40	1.46601	(10121908)
475893.32	3746111.50	0.89839	(16052008)	476130.12	3746085.01	0.94414	(16043008)
476129.71	3745935.03	1.38801	(16041024)	475595.68	3746575.78	0.73585	(14062708)
475911.01	3746495.74	0.45858	(16052008)	475863.30	3746556.38	0.40819	(16052008)
475594.25	3746890.12	0.41427	(10121908)	476146.43	3746600.47	0.41139	(16043008)
476082.93	3746873.86	0.30643	(16043008)	475609.08	3746999.92	0.28323	(10121908)
475745.21	3747048.16	0.22466	(11110408)	475382.02	3746160.96	1.35769m	(10060524)
475411.04	3746003.05	1.79986m	(10060524)	474409.00	3746437.28	0.62063m	(14061724)
476290.36	3746244.91	0.58713	(14042524)	476339.29			

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       3746119.15        0.70398  (14013108)
       476311.38   3746179.40        0.63235  (14042524)                   476277.82
       3746288.18        0.55876  (16112024)
       476333.63   3746432.95        0.43222  (16112024)                   476384.17
       3745949.30        0.95666  (14013108)
       476360.32   3745999.45        0.90773  (14013108)                   476412.89
       3745836.48        1.06122  (14032624)
       476404.80   3745918.57        0.95329  (14013108)                   476434.06
       3745820.87        1.02537  (14032624)
       476454.86   3745720.49        1.09896m (10060508)                   475797.42
       3744976.75        1.58122  (11010124)
       476060.39   3744909.25        1.11685  (14010524)                   475777.26
       3744882.37        1.41435  (11010124)
       475781.93   3744832.11        1.29172  (11011124)                   475779.60
       3744791.20        1.20862  (11011124)
       475786.02   3744729.84        1.10753  (11011124)                   475774.63
       3744924.73        1.53695  (11010124)
       475782.23   3744693.90        1.04422  (11011124)                   475768.20
       3744638.68        0.97443  (11011124)
       475787.19   3744589.00        0.89922  (11011124)                   475706.26
       3744502.22        0.76700  (11011124)
       475780.18   3744427.13        0.73573  (11011124)                   475764.11
       3744390.61        0.70836  (11011124)
       477060.85   3744371.76        0.21593  (16050824)                   476803.53
       3745166.88        0.49990  (15111724)
       477112.67   3745114.97        0.30426  (15111724)                   477464.43
       3745086.80        0.19697  (15111724)
       477531.57   3745005.51        0.18263  (15111724)                   475715.48
       3746455.63        0.70386  (10121908)
       475791.98   3746459.29        0.54123  (10121908)                   475771.33
       3746506.69        0.50466  (10121908)
       475775.18   3746458.34        0.54399  (10121908)                   475750.42
       3746454.29        0.54575  (10121908)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        17:33:11

                         PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                 *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                                 SOURCE GROUP:  B17      ***
                                     INCLUDING SOURCE(S):     B17_1        , B17_2        ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

     X-COORD (M)  Y-COORD (M)        CONC     (YYYYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       476395.71   3744607.81        0.17202  (16122708)                   476314.71
       3744669.61        0.17703  (16122708)
       476332.85   3744655.27        0.17616  (16122708)                   476365.97
       3744513.73        0.15554  (16122708)
       476245.90   3744942.48        0.23215  (16122708)                   476289.52
       3745000.38        0.25555  (16122708)
       476288.55   3745361.57        0.42070  (15012508)                   475880.74
       3745148.55        0.34577  (11011124)
       475796.73   3745058.23        0.42692  (11011124)                   475750.05
       3745108.89        0.45940  (11011124)
       475798.54   3745194.08        0.50107  (11011124)                   475752.37
       3745335.13        0.61131  (11011124)
```

475776.90   3745405.80   0.69254 (11011124)   475731.82
3745293.23   0.57908 (11011124)
475784.75   3745574.23   0.62039 (11010124)   475709.78
3745574.77   0.82460 (11010124)
475708.88   3745598.80   0.86135 (11010124)   475709.42
3745621.76   0.89029 (11010124)
475709.42   3745647.05   0.92539 (11010124)   475709.06
3745668.21   0.96244 (11010124)
475709.96   3745693.68   1.02638 (14122324)   475709.42
3745717.00   1.09995 (14122324)
475709.06   3745739.77   1.17420 (14122324)   475777.75
3745697.27   0.83057 (14122324)
475785.29   3745721.66   0.88969 (14122324)   475794.25
3745802.05   1.15279 (14122324)
475778.85   3745842.00   1.32002 (14122324)   475800.05
3745888.80   1.54149 (14122324)
475789.98   3745940.18   1.77480 (14122324)   475892.19
3745936.40   1.52050m (10060508)
475893.32   3746111.50   4.62068m (10060508)   476130.12
3746085.01   3.39062m (14021824)
476129.71   3745935.03   1.67232 (15012508)   475595.68
3746575.78   1.47112m (10060524)
475911.01   3746495.74   2.41587m (10060508)   475863.30
3746556.38   1.63914 (10121908)
475594.25   3746890.12   1.14256 (16121608)   476146.43
3746600.47   1.41668 (16041024)
476082.93   3746873.86   0.70314 (16043008)   475609.08
3746999.92   0.70088 (16121608)
475745.21   3747048.16   0.44539 (10121908)   475382.02
3746160.96   1.46465 (11010224)
475411.04   3746003.05   1.33975 (16030724)   474409.00
3746437.28   0.38690 (14040424)
476290.36   3746244.91   2.31045c (16021224)   476339.29
3746119.15   1.52858 (15111724)
476311.38   3746179.40   1.92705 (15111724)   476277.82
3746288.18   2.46838m (10060508)
476333.63   3746432.95   1.36240m (10060508)   476384.17
3745949.30   0.87365c (14012524)
476360.32   3745999.45   1.03646c (14012524)   476412.89
3745836.48   0.71344 (16050824)
476404.80   3745918.57   0.78019c (14012524)   476434.06
3745820.87   0.66034 (16050824)
476454.86   3745720.49   0.58687 (16050824)   475797.42
3744976.75   0.40391 (11011124)
476060.39   3744909.25   0.29642 (10113008)   475777.26
3744882.37   0.38421 (10071108)
475781.93   3744832.11   0.36371 (10071108)   475779.60
3744791.20   0.35045 (10071108)
475786.02   3744729.84   0.32945 (10071108)   475774.63
3744924.73   0.39517 (10071108)
475782.23   3744693.90   0.31827 (10071108)   475768.20
3744638.68   0.31905 (10071108)
475787.19   3744589.00   0.28845 (10071108)   475706.26
3744502.22   0.28561 (10071108)
475780.18   3744427.13   0.26112 (10071108)   475764.11
3744390.61   0.26101 (10071108)
477060.85   3744371.76   0.11121m (10090824)   476803.53
3745166.88   0.23201 (16050824)
477112.67   3745114.97   0.14378 (16050824)   477464.43
3745086.80   0.10401c (14012524)
477531.57   3745005.51   0.09599c (14012524)   475715.48
3746455.63   2.31481 (16123024)
475791.98   3746459.29   2.21849 (16121608)   475771.33
3746506.69   1.88000 (16121608)
475775.18   3746458.34   2.10380m (10060524)   475750.42
3746454.29   1.96714m (10060524)

```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                           ***        17:33:11

                        PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B18      ***
                                    INCLUDING SOURCE(S):     B18_1       , B18_2       ,
                                    B18_3       , B18_4       , B18_5       ,
                 B18_6       , B18_7       , B18_8       , B18_9       , B18_10      ,
                 B18_11      , B18_12      , B18_13      ,
                 B18_14      , B18_15      , B18_16      , B18_17      , B18_18      ,
                 B18_19      , B18_20      , B18_21      ,
                 B18_22      , B18_23      , B18_24      , B18_25      ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
        476395.71   3744607.81        0.19839  (15012508)                476314.71
        3744669.61        0.21829  (15012508)
        476332.85   3744655.27        0.21381  (15012508)                476365.97
        3744513.73        0.19145  (15012508)
        476245.90   3744942.48        0.27901  (15012508)                476289.52
        3745000.38        0.27606  (15012508)
        476288.55   3745361.57        0.39337  (16050824)                475880.74
        3745148.55        0.36050  (14010524)
        475796.73   3745058.23        0.31362  (14010524)                475750.05
        3745108.89        0.32205  (14010524)
        475798.54   3745194.08        0.37412  (14010524)                475752.37
        3745335.13        0.45772  (14010524)
        475776.90   3745405.80        0.53104  (14010524)                475731.82
        3745293.23        0.48585  (10113008)
        475784.75   3745574.23        0.74015  (14010524)                475709.78
        3745574.77        0.68616  (14010524)
        475708.88   3745598.80        0.72441  (14010524)                475709.42
        3745621.76        0.76623  (14010524)
        475709.42   3745647.05        0.81614  (14010524)                475709.06
        3745668.21        0.86147  (14010524)
        475709.96   3745693.68        0.92374  (14010524)                475709.42
        3745717.00        0.98512  (14010524)
        475709.06   3745739.77        1.05214  (14010524)                475777.75
        3745697.27        0.99944  (14010524)
        475785.29   3745721.66        1.06971  (14010524)                475794.25
        3745802.05        1.35411  (14010524)
        475778.85   3745842.00        1.56126  (14010524)                475800.05
        3745888.80        1.86099  (16122708)
        475789.98   3745940.18        2.32329  (16122708)                475892.19
        3745936.40        1.92799  (15101624)
        475893.32   3746111.50        3.46931  (10020424)                476130.12
        3746085.01        1.18054  (15111724)
        476129.71   3745935.03        0.89729c (14012524)                475595.68
        3746575.78        3.97917  (16010516)
        475911.01   3746495.74        2.71607m (10060508)                475863.30
        3746556.38        2.67423  (16041024)
        475594.25   3746890.12        0.95284  (10121908)                476146.43
        3746600.47        0.89918m (10060508)
        476082.93   3746873.86        0.70669  (14013108)                475609.08
```

3746999.92 0.74641 (16052008)
475745.21 3747048.16 0.72481 (16043008) 475382.02
3746160.96 2.69996 (11010224)
475411.04 3746003.05 2.65764 (16122224) 474409.00
3746437.28 0.55281 (14040424)
476290.36 3746244.91 0.76356m (10060508) 476339.29
3746119.15 0.67684 (15111724)
476311.38 3746179.40 0.72143 (15111724) 476277.82
3746288.18 0.79563m (10060508)
476333.63 3746432.95 0.65455m (10060508) 476384.17
3745949.30 0.54640 (15111724)
476360.32 3745999.45 0.60399 (15111724) 476412.89
3745836.48 0.44448 (15111724)
476404.80 3745918.57 0.50768 (15111724) 476434.06
3745820.87 0.42208 (15111724)
476454.86 3745720.49 0.37884c (14012524) 475797.42
3744976.75 0.35182 (10113008)
476060.39 3744909.25 0.28286 (16122708) 475777.26
3744882.37 0.37754 (10113008)
475781.93 3744832.11 0.34637 (10113008) 475779.60
3744791.20 0.34250 (10113008)
475786.02 3744729.84 0.32233 (10113008) 475774.63
3744924.73 0.37984 (10113008)
475782.23 3744693.90 0.31060 (10113008) 475768.20
3744638.68 0.42553 (10113008)
475787.19 3744589.00 0.31889 (10113008) 475706.26
3744502.22 0.36204 (10113008)
475780.18 3744427.13 0.35407 (10113008) 475764.11
3744390.61 0.35210 (10113008)
477060.85 3744371.76 0.12878 (16050824) 476803.53
3745166.88 0.18202 (16050824)
477112.67 3745114.97 0.13434c (14012524) 477464.43
3745086.80 0.10006c (14012524)
477531.57 3745005.51 0.09413c (14012524) 475715.48
3746455.63 11.39168m (10060508)
475791.98 3746459.29 8.31253 (16041024) 475771.33
3746506.69 5.55654 (16041024)
475775.18 3746458.34 9.37249 (16041024) 475750.42
3746454.29 10.76527 (16041024)

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

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): B13_1 , B13_2 ,
B14_1 , B14_2 , B14_3 ,
B14_4 , B14_5 , B14_6 , B17_1 , B17_2 ,
B18_1 , B18_2 , B18_3 ,
B18_4 , B18_5 , B18_6 , B18_7 , B18_8 ,
B18_9 , B18_10 , B18_11 ,
B18_12 , B18_13 , B18_14 , B18_15 , B18_16 ,
B18_17 , B18_18 , . . . ,

*** 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)
- -

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- - - - - - - - - - - - - - - - - - -
        476395.71   3744607.81        1.73221  (15012508)                  476314.71
        3744669.61        2.19143  (15012508)
        476332.85   3744655.27        2.07691  (15012508)                  476365.97
        3744513.73        1.63333  (15012508)
        476245.90   3744942.48        4.68282  (15101624)                  476289.52
        3745000.38        4.50078m (10060508)
        476288.55   3745361.57        6.21536m (10060508)                  475880.74
        3745148.55        5.67698m (10060508)
        475796.73   3745058.23        3.95505  (16122224)                  475750.05
        3745108.89        3.72129  (16122224)
        475798.54   3745194.08        4.61150  (16122224)                  475752.37
        3745335.13        5.32999  (16122224)
        475776.90   3745405.80        7.49377m (10060508)                  475731.82
        3745293.23        4.68540  (16122224)
        475784.75   3745574.23        8.09886m (10060508)                  475709.78
        3745574.77        5.30866m (10042324)
        475708.88   3745598.80        5.25302m (10042324)                  475709.42
        3745621.76        5.26370m (10060524)
        475709.42   3745647.05        4.83669m (10060524)                  475709.06
        3745668.21        5.16224m (10060524)
        475709.96   3745693.68        5.14748m (10060524)                  475709.42
        3745717.00        5.01972m (10060524)
        475709.06   3745739.77        4.86858m (10060524)                  475777.75
        3745697.27        5.19699m (10060524)
        475785.29   3745721.66        4.95050m (10060524)                  475794.25
        3745802.05        4.39928m (10060508)
        475778.85   3745842.00        4.36944  (16121608)                  475800.05
        3745888.80        4.45012m (10060508)
        475789.98   3745940.18        4.78294m (10060508)                  475892.19
        3745936.40        4.86227m (10060508)
        475893.32   3746111.50        9.18375m (10060508)                  476130.12
        3746085.01        5.63661m (10060508)
        476129.71   3745935.03        4.08569m (10060508)                  475595.68
        3746575.78        5.73407  (16121608)
        475911.01   3746495.74        5.66637m (10060508)                  475863.30
        3746556.38        4.64339m (10060508)
        475594.25   3746890.12        2.42041  (16121608)                  476146.43
        3746600.47        2.65393m (10060508)
        476082.93   3746873.86        1.47666m (10060508)                  475609.08
        3746999.92        1.59737  (10121908)
        475745.21   3747048.16        1.31169  (16052008)                  475382.02
        3746160.96        4.45408  (11010224)
        475411.04   3746003.05        4.27566m (10060524)                  474409.00
        3746437.28        1.52384  (14040424)
        476290.36   3746244.91        3.81766m (10060508)                  476339.29
        3746119.15        3.01361m (10060508)
        476311.38   3746179.40        3.42439m (10060508)                  476277.82
        3746288.18        3.97796m (10060508)
        476333.63   3746432.95        2.56818m (10060508)                  476384.17
        3745949.30        2.59150m (10060508)
        476360.32   3745999.45        2.72515m (10060508)                  476412.89
        3745836.48        2.54868m (10060508)
        476404.80   3745918.57        2.50431m (10060508)                  476434.06
        3745820.87        2.46905m (10060508)
        476454.86   3745720.49        2.53147m (10060508)                  475797.42
        3744976.75        3.81129  (16122224)
        476060.39   3744909.25        5.21095  (14010524)                  475777.26
        3744882.37        3.37712  (16122224)
        475781.93   3744832.11        3.17590  (16122224)                  475779.60
        3744791.20        3.00140  (11010124)
        475786.02   3744729.84        2.81336  (11010124)                  475774.63
        3744924.73        3.49565  (16122224)
        475782.23   3744693.90        2.66251  (11010124)                  475768.20
        3744638.68        2.48621  (11010124)
        475787.19   3744589.00        2.30272  (11010124)                  475706.26
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       3744502.22        1.97227  (11010124)
       475780.18   3744427.13       1.96637  (11011124)                475764.11
       3744390.61        1.88134  (11011124)
       477060.85   3744371.76       0.62729  (16050824)                476803.53
       3745166.88        1.28035m (10060508)
       477112.67   3745114.97       0.79006  (15111724)                477464.43
       3745086.80        0.54569  (15111724)
       477531.57   3745005.51       0.51023  (15111724)                475715.48
       3746455.63       13.50068m (10060508)
       475791.98   3746459.29      10.33070m (10060508)                475771.33
       3746506.69        7.25237m (10060508)
       475775.18   3746458.34      11.28341m (10060508)                475750.42
       3746454.29       12.87998m (10060508)
```



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

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

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

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

B13      HIGH   1ST HIGH VALUE IS       7.64827  ON 11091107: AT (  476289.52,  3745000.38,
463.00,   463.00,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS      13.54425  ON 16010616: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS       8.23336  ON 11010316: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS      20.99537  ON 14041207: AT (  475750.42,  3746454.29,
466.99,   466.99,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS      21.54742  ON 14041207: AT (  475750.42,  3746454.29,
466.99,   466.99,    2.00)  DC


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



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

                                                  *** THE SUMMARY OF HIGHEST  8-HR RESULTS ***
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                                          ** CONC OF CO       IN
                                          MICROGRAMS/M**3                          **

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

B13      HIGH   1ST HIGH VALUE IS       3.91363m ON 10060508: AT (  476060.39,  3744909.25,
466.65,   466.65,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS       6.15702m ON 10060508: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS       4.62068m ON 10060508: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS      11.39168m ON 10060508: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS      13.50068m ON 10060508: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/17/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        17:33:11

                      PAGE  20
 *** 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            4 Warning Message(s)
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W186     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:      14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

****

```
**
***************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops NO2\13697 Ops NO2.ADI
**
***************************************
**
**
***************************************
** AERMOD Control Pathway
***************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops NO2.err"
CO FINISHED
**
***************************************
** AERMOD Source Pathway
***************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
```

```
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0031751466     5.000    44.819     1.400
   SRCPARAM B13_2        0.0031751466     5.000    44.819     1.400
   SRCPARAM B14_1        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_2        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_3        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_4        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_5        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_6        0.002557757     5.000    27.337     1.400
   SRCPARAM B17_1        0.0026207559     5.000    44.726     1.400
   SRCPARAM B17_2        0.0026207559     5.000    44.726     1.400
   SRCPARAM B18_1        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_2        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_3        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_4        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_5        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_6        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_7        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_8        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_9        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_10       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_11       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_12       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_13       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_14       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_15       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_16       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_17       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_18       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_19       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_20       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_21       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_22       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_23       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_24       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_25       0.0002620756     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops NO2.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
```

```
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   PLOTFILE 1 ALL 1ST "13697 OPS NO2.AD\1H_ALL.PLT" 31
   PLOTFILE 1 B13 1ST "13697 OPS NO2.AD\1H_B13.PLT" 32
   PLOTFILE 1 B14 1ST "13697 OPS NO2.AD\1H_B14.PLT" 33
   PLOTFILE 1 B17 1ST "13697 OPS NO2.AD\1H_B17.PLT" 34
   PLOTFILE 1 B18 1ST "13697 OPS NO2.AD\1H_B18.PLT" 35
   SUMMFILE "13697 Ops NO2.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
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops NO2\13697 Ops NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops NO2.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
```

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   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0031751466     5.000    44.819     1.400
   SRCPARAM B13_2        0.0031751466     5.000    44.819     1.400
   SRCPARAM B14_1        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_2        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_3        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_4        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_5        0.002557757     5.000    27.337     1.400
   SRCPARAM B14_6        0.002557757     5.000    27.337     1.400
   SRCPARAM B17_1        0.0026207559     5.000    44.726     1.400
   SRCPARAM B17_2        0.0026207559     5.000    44.726     1.400
   SRCPARAM B18_1        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_2        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_3        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_4        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_5        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_6        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_7        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_8        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_9        0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_10       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_11       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_12       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_13       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_14       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_15       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_16       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_17       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_18       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_19       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_20       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_21       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_22       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_23       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_24       0.0002620756     5.000    12.365     1.400
   SRCPARAM B18_25       0.0002620756     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops NO2.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
```

```
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   PLOTFILE 1 ALL 1ST "13697 OPS NO2.AD\1H_ALL.PLT" 31
   PLOTFILE 1 B13 1ST "13697 OPS NO2.AD\1H_B13.PLT" 32
   PLOTFILE 1 B14 1ST "13697 OPS NO2.AD\1H_B14.PLT" 33
   PLOTFILE 1 B17 1ST "13697 OPS NO2.AD\1H_B17.PLT" 34
   PLOTFILE 1 B18 1ST "13697 OPS NO2.AD\1H_B18.PLT" 35
   SUMMFILE "13697 Ops NO2.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     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       09:48:53

                      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    35 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: NOX

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

 **This Run Includes:     35 Source(s);       5 Source Group(s); and      78 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     35 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216

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

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;  Emission Rate
                  Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

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

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

 **Detailed Error/Message File:   13697 Ops
 NO2.err
 **File for Summary of Results:   13697 Ops
 NO2.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        09:48:53
```

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

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B13_1	0	0.31751E-02	476101.1	3745262.2	464.0	5.00	44.82	1.40	YES	
B13_2	0	0.31751E-02	476102.0	3745072.0	465.9	5.00	44.82	1.40	YES	
B14_1	0	0.25578E-02	475881.8	3745554.6	466.0	5.00	27.34	1.40	YES	
B14_2	0	0.25578E-02	475881.2	3745437.3	468.2	5.00	27.34	1.40	YES	
B14_3	0	0.25578E-02	475999.6	3745554.0	464.7	5.00	27.34	1.40	YES	
B14_4	0	0.25578E-02	476000.0	3745437.7	465.7	5.00	27.34	1.40	YES	
B14_5	0	0.25578E-02	476071.8	3745548.2	464.0	5.00	27.34	1.40	YES	
B14_6	0	0.25578E-02	476118.4	3745439.0	463.0	5.00	27.34	1.40	YES	
B17_1	0	0.26208E-02	475926.0	3746256.1	465.0	5.00	44.73	1.40	YES	
B17_2	0	0.26208E-02	476070.8	3746258.4	463.0	5.00	44.73	1.40	YES	
B18_1	0	0.26208E-03	475632.5	3746502.6	469.1	5.00	12.37	1.40	YES	
B18_2	0	0.26208E-03	475633.4	3746447.8	469.9	5.00	12.37	1.40	YES	
B18_3	0	0.26208E-03	475638.8	3746403.3	469.7	5.00	12.37	1.40	YES	
B18_4	0	0.26208E-03	475681.1	3746405.0	469.0	5.00	12.37	1.40	YES	
B18_5	0	0.26208E-03	475727.7	3746410.8	467.7	5.00	12.37	1.40	YES	
B18_6	0	0.26208E-03	475775.0	3746409.1	466.4	5.00	12.37	1.40	YES	
B18_7	0	0.26208E-03	475640.0	3746350.6	469.9	5.00	12.37	1.40	YES	
B18_8	0	0.26208E-03	475690.3	3746353.5	469.0	5.00	12.37	1.40	YES	
B18_9	0	0.26208E-03	475774.6	3746355.1	467.2	5.00	12.37	1.40	YES	
B18_10	0	0.26208E-03	475731.0	3746357.2	468.0	5.00	12.37	1.40	YES	
B18_11	0	0.26208E-03	475639.2	3746296.6	469.7	5.00	12.37	1.40	YES	
B18_12	0	0.26208E-03	475689.9	3746300.7	469.0	5.00	12.37	1.40	YES	
B18_13	0	0.26208E-03	475740.5	3746303.6	468.0	5.00	12.37	1.40	YES	
B18_14	0	0.26208E-03	475774.6	3746301.6	467.2	5.00	12.37	1.40	YES	
B18_15	0	0.26208E-03	475637.5	3746242.6	469.8	5.00	12.37	1.40	YES	
B18_16	0	0.26208E-03	475683.6	3746246.3	469.1	5.00	12.37	1.40		

```
 YES
 B18_17           0   0.26208E-03  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES
 B18_18           0   0.26208E-03  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES
 B18_19           0   0.26208E-03  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES
 B18_20           0   0.26208E-03  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES
 B18_21           0   0.26208E-03  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES
 B18_22           0   0.26208E-03  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES
 B18_23           0   0.26208E-03  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES
 B18_24           0   0.26208E-03  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES
 B18_25           0   0.26208E-03  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:48:53

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13        B13_1       , B13_2       ,

  B14        B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,

  B17        B17_1       , B17_2       ,

  B18        B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

             B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
             B18_15      , B18_16      ,

             B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
             B18_23      , B18_24      ,

             B18_25      ,

  ALL        B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

             B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
             B18_5       , B18_6       ,

             B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
             B18_13      , B18_14      ,

             B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
             B18_21      , B18_22      ,

             B18_23      , B18_24      , B18_25      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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

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

2189641.   B13_1   , B13_2   , B14_1   , B14_2   , B14_3   ,
B14_4   , B14_5   ,
B14_6   ,

B17_1   , B17_2   , B18_1   , B18_2   , B18_3   , B18_4   ,
B18_5   , B18_6   ,

B18_7   , B18_8   , B18_9   , B18_10   , B18_11   , B18_12   ,
B18_13   , B18_14   ,

B18_15   , B18_16   , B18_17   , B18_18   , B18_19   , B18_20   ,
B18_21   , B18_22   ,

B18_23   , B18_24   , B18_25   ,

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

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

(476395.7, 3744607.8,   462.5,   462.5,   2.0);   (476314.7, 3744669.6,
463.2,   463.2,   2.0);
(476332.8, 3744655.3,   463.0,   463.0,   2.0);   (476366.0, 3744513.7,
463.2,   463.2,   2.0);
(476245.9, 3744942.5,   463.5,   463.5,   2.0);   (476289.5, 3745000.4,
463.0,   463.0,   2.0);
(476288.5, 3745361.6,   461.2,   461.2,   2.0);   (475880.7, 3745148.5,
468.0,   468.0,   2.0);
(475796.7, 3745058.2,   469.6,   469.6,   2.0);   (475750.0, 3745108.9,
470.0,   470.0,   2.0);
(475798.5, 3745194.1,   469.1,   469.1,   2.0);   (475752.4, 3745335.1,
469.9,   469.9,   2.0);
(475776.9, 3745405.8,   470.0,   470.0,   2.0);   (475731.8, 3745293.2,
470.6,   470.6,   2.0);
(475784.8, 3745574.2,   467.8,   467.8,   2.0);   (475709.8, 3745574.8,
469.3,   469.3,   2.0);
(475708.9, 3745598.8,   469.4,   469.4,   2.0);   (475709.4, 3745621.8,
469.2,   469.2,   2.0);
(475709.4, 3745647.0,   469.0,   469.0,   2.0);   (475709.1, 3745668.2,
469.0,   469.0,   2.0);
(475710.0, 3745693.7,   469.3,   469.3,   2.0);   (475709.4, 3745717.0,
469.4,   469.4,   2.0);
(475709.1, 3745739.8,   469.4,   469.4,   2.0);   (475777.8, 3745697.3,
468.0,   468.0,   2.0);
(475785.3, 3745721.7,   467.8,   467.8,   2.0);   (475794.2, 3745802.0,
467.5,   467.5,   2.0);
(475778.8, 3745842.0,   468.0,   468.0,   2.0);   (475800.0, 3745888.8,

```
    467.3,     467.3,        2.0);
    ( 475790.0, 3745940.2,      467.0,     467.0,       2.0);          ( 475892.2, 3745936.4,
    465.2,     465.2,        2.0);
    ( 475893.3, 3746111.5,      465.0,     465.0,       2.0);          ( 476130.1, 3746085.0,
    462.0,     462.0,        2.0);
    ( 476129.7, 3745935.0,      462.0,     462.0,       2.0);          ( 475595.7, 3746575.8,
    469.1,     469.1,        2.0);
    ( 475911.0, 3746495.7,      464.0,     464.0,       2.0);          ( 475863.3, 3746556.4,
    464.5,     464.5,        2.0);
    ( 475594.2, 3746890.1,      468.4,     468.4,       2.0);          ( 476146.4, 3746600.5,
    460.7,     460.7,        2.0);
    ( 476082.9, 3746873.9,      459.9,     459.9,       2.0);          ( 475609.1, 3746999.9,
    467.0,     467.0,        2.0);
    ( 475745.2, 3747048.2,      464.2,     464.2,       2.0);          ( 475382.0, 3746161.0,
    476.1,     476.1,        2.0);
    ( 475411.0, 3746003.0,      475.3,     475.3,       2.0);          ( 474409.0, 3746437.3,
    518.9,     524.0,        2.0);
    ( 476290.4, 3746244.9,      460.0,     460.0,       2.0);          ( 476339.3, 3746119.1,
    460.0,     460.0,        2.0);
    ( 476311.4, 3746179.4,      460.0,     460.0,       2.0);          ( 476277.8, 3746288.2,
    460.0,     460.0,        2.0);
    ( 476333.6, 3746432.9,      459.0,     459.0,       2.0);          ( 476384.2, 3745949.3,
    460.0,     460.0,        2.0);
    ( 476360.3, 3745999.4,      460.0,     460.0,       2.0);          ( 476412.9, 3745836.5,
    460.0,     460.0,        2.0);
    ( 476404.8, 3745918.6,      460.0,     460.0,       2.0);          ( 476434.1, 3745820.9,
    460.0,     460.0,        2.0);
    ( 476454.9, 3745720.5,      459.0,     459.0,       2.0);          ( 475797.4, 3744976.8,
    471.0,     471.0,        2.0);
    ( 476060.4, 3744909.2,      466.7,     466.7,       2.0);          ( 475777.3, 3744882.4,
    472.0,     472.0,        2.0);
    ( 475781.9, 3744832.1,      471.9,     471.9,       2.0);          ( 475779.6, 3744791.2,
    472.0,     472.0,        2.0);
    ( 475786.0, 3744729.8,      472.0,     472.0,       2.0);          ( 475774.6, 3744924.7,
    471.8,     471.8,        2.0);
    ( 475782.2, 3744693.9,      472.0,     472.0,       2.0);          ( 475768.2, 3744638.7,
    473.0,     473.0,        2.0);
    ( 475787.2, 3744589.0,      472.1,     472.1,       2.0);          ( 475706.3, 3744502.2,
    473.1,     473.1,        2.0);
    ( 475780.2, 3744427.1,      473.0,     473.0,       2.0);          ( 475764.1, 3744390.6,
    473.5,     473.5,        2.0);
    ( 477060.8, 3744371.8,      455.0,     455.0,       2.0);          ( 476803.5, 3745166.9,
    456.0,     456.0,        2.0);
    ( 477112.7, 3745115.0,      453.6,     453.6,       2.0);          ( 477464.4, 3745086.8,
    450.0,     450.0,        2.0);
    ( 477531.6, 3745005.5,      450.0,     450.0,       2.0);          ( 475715.5, 3746455.6,
    468.1,     468.1,        2.0);
    ( 475792.0, 3746459.3,      466.3,     466.3,       2.0);          ( 475771.3, 3746506.7,
    466.3,     466.3,        2.0);
    ( 475775.2, 3746458.3,      466.7,     466.7,       2.0);          ( 475750.4, 3746454.3,
    467.0,     467.0,        2.0);
```

```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        09:48:53

                        PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

```
                                               *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                  (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
```

```
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1 1
          1  1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

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

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

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

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

Surface file: PERI_V9_ADJU\PERI_v9.SFC Met Version: 16216
Profile file: PERI_V9_ADJU\PERI_v9.PFL
Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2010 Year: 2010

First 24 hours of scalar data

```
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
 10 01 01   1 01   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 335.    9.1  282.5    5.5
 10 01 01   1 02   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 142.    9.1  280.9    5.5
 10 01 01   1 03   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 324.    9.1  280.4    5.5
 10 01 01   1 04   -1.3  0.064 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 294.    9.1  278.8    5.5
 10 01 01   1 05   -3.9  0.088 -9.000 -9.000 -999.   62.     15.0  0.19   0.61   1.00    0.90
 205.    9.1  278.1    5.5
 10 01 01   1 06   -1.3  0.065 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 3.    9.1  277.0    5.5
 10 01 01   1 07   -8.0  0.125 -9.000 -9.000 -999.  106.     21.0  0.19   0.61   1.00    1.30
```

```
 99.    9.1  277.0    5.5
 10 01 01   1 08   -3.3  0.086 -9.000 -9.000 -999.   61.     16.8  0.19   0.61   0.54    0.90
 319.    9.1  278.8    5.5
 10 01 01   1 09   20.1  0.128  0.307  0.010   49.  110.     -9.0  0.19   0.61   0.33    0.90
 239.    9.1  284.2    5.5
 10 01 01   1 10   56.7  0.087  0.560  0.010  107.   62.     -1.0  0.19   0.61   0.26    0.40
 188.    9.1  289.2    5.5
 10 01 01   1 11   81.5  0.323  0.867  0.008  277.  441.    -35.9  0.19   0.61   0.23    2.70
 310.    9.1  290.9    5.5
 10 01 01   1 12   97.1  0.281  1.058  0.008  421.  357.    -19.7  0.19   0.61   0.22    2.20
 357.    9.1  293.1    5.5
 10 01 01   1 13   92.2  0.279  1.117  0.008  523.  354.    -20.4  0.19   0.61   0.22    2.20
 356.    9.1  293.8    5.5
 10 01 01   1 14   77.6  0.275  1.102  0.008  595.  347.    -23.2  0.19   0.61   0.23    2.20
 50.    9.1  294.2    5.5
 10 01 01   1 15   54.9  0.230  1.006  0.008  640.  266.    -19.2  0.19   0.61   0.27    1.80
 53.    9.1  293.8    5.5
 10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61   0.36    1.80
 11.    9.1  292.5    5.5
 10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61   0.64    0.90
 351.    9.1  290.4    5.5
 10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
 186.    9.1  287.5    5.5
 10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
 275.    9.1  285.9    5.5
 10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
 181.    9.1  285.4    5.5
 10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
 318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        09:48:53

                     PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  B13       ***
                                 INCLUDING SOURCE(S):     B13_1       , B13_2       ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

     X-COORD (M)  Y-COORD (M)        CONC     (YYYYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
       476395.71   3744607.81        0.10041  (10041918)              476314.71
       3744669.61        0.13943  (14021817)
```

476332.85   3744655.27   0.13016 (14021817)   476365.97
3744513.73   0.08278 (14021817)
476245.90   3744942.48   0.52600 (16050618)   476289.52
3745000.38   0.52660 (11091107)
476288.55   3745361.57   0.50451 (14041207)   475880.74
3745148.55   0.40524 (16010616)
475796.73   3745058.23   0.27693 (15101319)   475750.05
3745108.89   0.25684 (11081820)
475798.54   3745194.08   0.28287 (11082922)   475752.37
3745335.13   0.26254 (14083119)
475776.90   3745405.80   0.27224 (15083019)   475731.82
3745293.23   0.26193 (11070820)
475784.75   3745574.23   0.15757 (16010516)   475709.78
3745574.77   0.18274 (10081623)
475708.88   3745598.80   0.17757 (14072520)   475709.42
3745621.76   0.17054 (10061520)
475709.42   3745647.05   0.16210 (10061520)   475709.06
3745668.21   0.15606 (10062522)
475709.96   3745693.68   0.15531 (10092720)   475709.42
3745717.00   0.15277 (10092720)
475709.06   3745739.77   0.14868 (10092720)   475777.75
3745697.27   0.14128 (16010516)
475785.29   3745721.66   0.13403 (16010516)   475794.25
3745802.05   0.09987 (11050420)
475778.85   3745842.00   0.09360 (11050420)   475800.05
3745888.80   0.08468 (16061020)
475789.98   3745940.18   0.05034 (15100407)   475892.19
3745936.40   0.07478 (16123116)
475893.32   3746111.50   0.05634 (16123116)   476130.12
3746085.01   0.05478 (10082818)
476129.71   3745935.03   0.07861 (14113016)   475595.68
3746575.78   0.05290 (11082720)
475911.01   3746495.74   0.02598 (11070120)   475863.30
3746556.38   0.02580 (16123116)
475594.25   3746890.12   0.02704 (14072723)   476146.43
3746600.47   0.02295 (10082818)
476082.93   3746873.86   0.01828 (10082818)   475609.08
3746999.92   0.01634 (16123116)
475745.21   3747048.16   0.01580 (16123116)   475382.02
3746160.96   0.10897 (10092720)
475411.04   3746003.05   0.12044 (15083119)   474409.00
3746437.28   0.08721 (15062220)
476290.36   3746244.91   0.05738 (14113016)   476339.29
3746119.15   0.06611 (14113016)
476311.38   3746179.40   0.06353 (14113016)   476277.82
3746288.18   0.05279 (14113016)
476333.63   3746432.95   0.04264 (14113016)   476384.17
3745949.30   0.06258 (14113016)
476360.32   3745999.45   0.06976 (14113016)   476412.89
3745836.48   0.07891 (15050818)
476404.80   3745918.57   0.06260 (16082607)   476434.06
3745820.87   0.08428 (15050818)
476454.86   3745720.49   0.10004 (15050818)   475797.42
3744976.75   0.29850 (16071821)
476060.39   3744909.25   0.51682 (14111116)   475777.26
3744882.37   0.28488 (15090905)
475781.93   3744832.11   0.27325 (15070120)   475779.60
3744791.20   0.26242 (15090820)
475786.02   3744729.84   0.24217 (15090904)   475774.63
3744924.73   0.28634 (16110820)
475782.23   3744693.90   0.22717 (15090904)   475768.20
3744638.68   0.21564 (15102819)
475787.19   3744589.00   0.19582 (15090823)   475706.26
3744502.22   0.16726 (11090705)
475780.18   3744427.13   0.16306 (15090720)   475764.11
3744390.61   0.15754 (15090720)

```
      477060.85   3744371.76        0.04144  (16050618)                476803.53
      3745166.88        0.05811  (14022617)
      477112.67   3745114.97        0.03505  (11062522)                477464.43
      3745086.80        0.02331  (11062522)
      477531.57   3745005.51        0.02153  (16082707)                475715.48
      3746455.63        0.04067  (14072723)
      475791.98   3746459.29        0.03232  (16123116)                475771.33
      3746506.69        0.02996  (16123116)
      475775.18   3746458.34        0.03174  (16123116)                475750.42
      3746454.29        0.03029  (16123116)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        09:48:53

                    PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B14      ***
                                    INCLUDING SOURCE(S):     B14_1       , B14_2       ,
                                    B14_3       , B14_4       , B14_5       ,
                  B14_6       ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        0.10024  (14021817)                476314.71
      3744669.61        0.11484  (14090307)
      476332.85   3744655.27        0.10701  (14090307)                476365.97
      3744513.73        0.08777  (14090307)
      476245.90   3744942.48        0.22728  (14021817)                476289.52
      3745000.38        0.25420  (14021817)
      476288.55   3745361.57        1.00946  (11091107)                475880.74
      3745148.55        0.47125  (15051418)
      475796.73   3745058.23        0.44545  (14090219)                475750.05
      3745108.89        0.48145  (15090904)
      475798.54   3745194.08        0.60257  (16092520)                475752.37
      3745335.13        1.41145  (11010316)
      475776.90   3745405.80        1.55511  (11010316)                475731.82
      3745293.23        1.11878  (11010316)
      475784.75   3745574.23        1.96392  (16010616)                475709.78
      3745574.77        1.01416  (14070720)
      475708.88   3745598.80        0.98749  (14083119)                475709.42
      3745621.76        1.03784  (14090218)
      475709.42   3745647.05        1.07705  (14090218)                475709.06
      3745668.21        1.05795  (14090218)
      475709.96   3745693.68        0.99275  (14090218)                475709.42
      3745717.00        0.89727  (14090218)
      475709.06   3745739.77        0.79353  (14090218)                475777.75
      3745697.27        1.13464  (14090218)
      475785.29   3745721.66        0.91325  (14090218)                475794.25
      3745802.05        0.65357  (16010516)
      475778.85   3745842.00        0.55894  (16010516)                475800.05
      3745888.80        0.45929  (16010516)
      475789.98   3745940.18        0.36572  (16010516)                475892.19
      3745936.40        0.33248  (14030117)
      475893.32   3746111.50        0.20809  (16123116)                476130.12
      3746085.01        0.31757  (14113016)
      476129.71   3745935.03        0.45943  (14113016)                475595.68
```

3746575.78 0.15624 (11082720)
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475594.25 3746890.12 0.08444 (14072723) 476146.43
3746600.47 0.11500 (14113016)
476082.93 3746873.86 0.06101 (14113016) 475609.08
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475745.21 3747048.16 0.04852 (11070120) 475382.02
3746160.96 0.36837 (10100219)
475411.04 3746003.05 0.43463 (16081820) 474409.00
3746437.28 0.25051 (15091322)
476290.36 3746244.91 0.14188 (14113016) 476339.29
3746119.15 0.19581 (15050818)
476311.38 3746179.40 0.16095 (16082607) 476277.82
3746288.18 0.14746 (14113016)
476333.63 3746432.95 0.10382 (14113016) 476384.17
3745949.30 0.29216 (14041207)
476360.32 3745999.45 0.26001 (14041207) 476412.89
3745836.48 0.35833 (16090507)
476404.80 3745918.57 0.29939 (14041207) 476434.06
3745820.87 0.34317 (16090507)
476454.86 3745720.49 0.32615 (16040918) 475797.42
3744976.75 0.42041 (15090720)
476060.39 3744909.25 0.20814 (14091420) 475777.26
3744882.37 0.41177 (11080220)
475781.93 3744832.11 0.38075 (11080220) 475779.60
3744791.20 0.35792 (11080220)
475786.02 3744729.84 0.32671 (11070223) 475774.63
3744924.73 0.43130 (15090720)
475782.23 3744693.90 0.31023 (11070223) 475768.20
3744638.68 0.30597 (11070223)
475787.19 3744589.00 0.27470 (10082521) 475706.26
3744502.22 0.25508 (11070223)
475780.18 3744427.13 0.24050 (10082521) 475764.11
3744390.61 0.23808 (10082521)
477060.85 3744371.76 0.06371 (16050618) 476803.53
3745166.88 0.12190 (11091107)
477112.67 3745114.97 0.07162 (15111718) 477464.43
3745086.80 0.04868 (15012407)
477531.57 3745005.51 0.04558 (15111718) 475715.48
3746455.63 0.13871 (14072723)
475791.98 3746459.29 0.11098 (16123116) 475771.33
3746506.69 0.10315 (16123116)
475775.18 3746458.34 0.11147 (16123116) 475750.42
3746454.29 0.11033 (16123116)

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

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B17 ***
INCLUDING SOURCE(S): B17_1 , B17_2 ,

*** 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)
- -

476395.71 3744607.81 0.01511 (14090307) 476314.71
3744669.61 0.01597 (10071320)
476332.85 3744655.27 0.01567 (10071320) 476365.97
3744513.73 0.01388 (10071320)
476245.90 3744942.48 0.02092 (10071320) 476289.52
3745000.38 0.02287 (14090307)
476288.55 3745361.57 0.03929 (14090307) 475880.74
3745148.55 0.04239 (14091520)
475796.73 3745058.23 0.06128 (15062523) 475750.05
3745108.89 0.06766 (10082521)
475798.54 3745194.08 0.06842 (10082521) 475752.37
3745335.13 0.08639 (11070223)
475776.90 3745405.80 0.09626 (11070223) 475731.82
3745293.23 0.08629 (11070223)
475784.75 3745574.23 0.07479 (14110618) 475709.78
3745574.77 0.11386 (15090720)
475708.88 3745598.80 0.11905 (15090720) 475709.42
3745621.76 0.12152 (15090720)
475709.42 3745647.05 0.12433 (15090720) 475709.06
3745668.21 0.12911 (15090823)
475709.96 3745693.68 0.13856 (15090823) 475709.42
3745717.00 0.14426 (15090823)
475709.06 3745739.77 0.14918 (11090705) 475777.75
3745697.27 0.09440 (14091606)
475785.29 3745721.66 0.09913 (14091606) 475794.25
3745802.05 0.12293 (15051418)
475778.85 3745842.00 0.13254 (15051418) 475800.05
3745888.80 0.15561 (15051418)
475789.98 3745940.18 0.16879 (15051418) 475892.19
3745936.40 0.18806 (15051418)
475893.32 3746111.50 0.56333 (11010316) 476130.12
3746085.01 0.43825 (10020417)
476129.71 3745935.03 0.18401 (14090307) 475595.68
3746575.78 0.18546 (15082119)
475911.01 3746495.74 0.28859 (16010516) 475863.30
3746556.38 0.22151 (16010516)
475594.25 3746890.12 0.10497 (10092818) 476146.43
3746600.47 0.19676 (14113016)
476082.93 3746873.86 0.10282 (14113016) 475609.08
3746999.92 0.05789 (11050420)
475745.21 3747048.16 0.04529 (16123116) 475382.02
3746160.96 0.22728 (11082922)
475411.04 3746003.05 0.20656 (14032020) 474409.00
3746437.28 0.10221 (16102119)
476290.36 3746244.91 0.36183 (16082707) 476339.29
3746119.15 0.24533 (11091107)
476311.38 3746179.40 0.28796 (11091107) 476277.82
3746288.18 0.35097 (14022617)
476333.63 3746432.95 0.21479 (16040918) 476384.17
3745949.30 0.17182 (16050618)
476360.32 3745999.45 0.19731 (16050618) 476412.89
3745836.48 0.12104 (16050618)
476404.80 3745918.57 0.15433 (16050618) 476434.06
3745820.87 0.11407 (16050618)
476454.86 3745720.49 0.08099 (10020417) 475797.42
3744976.75 0.06345 (15062523)
476060.39 3744909.25 0.03149 (14091420) 475777.26
3744882.37 0.06203 (15062523)
475781.93 3744832.11 0.05895 (14082721) 475779.60
3744791.20 0.05709 (14082721)
475786.02 3744729.84 0.05404 (14082721) 475774.63
3744924.73 0.06362 (15062523)
475782.23 3744693.90 0.05240 (14082721) 475768.20
3744638.68 0.05313 (14082721)
475787.19 3744589.00 0.04859 (16100819) 475706.26
3744502.22 0.04809 (15062523)

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      475780.18   3744427.13        0.04556  (16100819)                  475764.11
      3744390.61        0.04557  (16100819)
      477060.85   3744371.76        0.01071  (10082619)                  476803.53
      3745166.88        0.02390  (10020417)
      477112.67   3745114.97        0.02149  (16050618)                  477464.43
      3745086.80        0.01634  (16050618)
      477531.57   3745005.51        0.01514  (16050618)                  475715.48
      3746455.63        0.33405  (14090218)
      475791.98   3746459.29        0.35660  (14090218)                  475771.33
      3746506.69        0.26414  (16010516)
      475775.18   3746458.34        0.36110  (14090218)                  475750.42
      3746454.29        0.36370  (14090218)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:48:53

                    PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP:  B18      ***
                                INCLUDING SOURCE(S):     B18_1       , B18_2       ,
                                B18_3       , B18_4       , B18_5       ,
               B18_6       , B18_7       , B18_8       , B18_9       , B18_10      ,
               B18_11      , B18_12      , B18_13      ,
               B18_14      , B18_15      , B18_16      , B18_17      , B18_18      ,
               B18_19      , B18_20      , B18_21      ,
               B18_22      , B18_23      , B18_24      , B18_25      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

     X-COORD (M)  Y-COORD (M)        CONC     (YYYYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        0.01715  (14072920)                  476314.71
      3744669.61        0.01845  (14082820)
      476332.85   3744655.27        0.01816  (14082820)                  476365.97
      3744513.73        0.01623  (11081720)
      476245.90   3744942.48        0.02370  (14082820)                  476289.52
      3745000.38        0.02453  (15082420)
      476288.55   3745361.57        0.04060  (10083118)                  475880.74
      3745148.55        0.03290  (11062720)
      475796.73   3745058.23        0.03069  (11090621)                  475750.05
      3745108.89        0.03266  (11090621)
      475798.54   3745194.08        0.03611  (16010916)                  475752.37
      3745335.13        0.04436  (11090621)
      475776.90   3745405.80        0.05326  (16010916)                  475731.82
      3745293.23        0.05160  (14091420)
      475784.75   3745574.23        0.07665  (16010916)                  475709.78
      3745574.77        0.06597  (16010916)
      475708.88   3745598.80        0.06999  (16010916)                  475709.42
      3745621.76        0.07457  (16010916)
      475709.42   3745647.05        0.07991  (16010916)                  475709.06
      3745668.21        0.08489  (14083118)
      475709.96   3745693.68        0.09217  (14083118)                  475709.42
      3745717.00        0.09910  (14083118)
      475709.06   3745739.77        0.10668  (14083118)                  475777.75
      3745697.27        0.10597  (16010916)
      475785.29   3745721.66        0.11256  (16010916)                  475794.25
      3745802.05        0.15298  (14090307)
      475778.85   3745842.00        0.17406  (14090307)                  475800.05
```

3745888.80 0.23686 (14090307)
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3746085.01 0.17494 (11091107)
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3746556.38 0.44394 (14041207)
475594.25 3746890.12 0.12495 (16123116) 476146.43
3746600.47 0.13556 (16090507)
476082.93 3746873.86 0.09173 (14041207) 475609.08
3746999.92 0.08416 (10082818)
475745.21 3747048.16 0.09095 (14113016) 475382.02
3746160.96 0.35468 (15101319)
475411.04 3746003.05 0.31762 (10100118) 474409.00
3746437.28 0.13206 (16102119)
476290.36 3746244.91 0.09532 (16082707) 476339.29
3746119.15 0.07462 (16082707)
476311.38 3746179.40 0.09086 (16082707) 476277.82
3746288.18 0.09081 (14022617)
476333.63 3746432.95 0.07435 (10020717) 476384.17
3745949.30 0.07205 (11091107)
476360.32 3745999.45 0.07621 (11091107) 476412.89
3745836.48 0.06382 (16050618)
476404.80 3745918.57 0.06796 (11091107) 476434.06
3745820.87 0.06069 (16050618)
476454.86 3745720.49 0.06682 (16050618) 475797.42
3744976.75 0.03707 (11101218)
476060.39 3744909.25 0.02706 (14090307) 475777.26
3744882.37 0.03942 (14091420)
475781.93 3744832.11 0.03643 (14091420) 475779.60
3744791.20 0.03607 (14091420)
475786.02 3744729.84 0.03399 (14091420) 475774.63
3744924.73 0.03984 (14091420)
475782.23 3744693.90 0.03300 (14091420) 475768.20
3744638.68 0.04799 (10082320)
475787.19 3744589.00 0.03442 (11091819) 475706.26
3744502.22 0.04322 (14091120)
475780.18 3744427.13 0.04060 (10082320) 475764.11
3744390.61 0.04194 (10082320)
477060.85 3744371.76 0.01179 (15062120) 476803.53
3745166.88 0.02776 (16050618)
477112.67 3745114.97 0.02211 (16050618) 477464.43
3745086.80 0.01366 (11091107)
477531.57 3745005.51 0.01261 (11091107) 475715.48
3746455.63 1.32063 (14041207)
475791.98 3746459.29 1.33995 (14041207) 475771.33
3746506.69 0.76659 (14113016)
475775.18 3746458.34 1.39143 (14041207) 475750.42
3746454.29 1.44127 (14041207)

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

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): B13_1 , B13_2 ,
B14_1 , B14_2 , B14_3 ,
B14_4 , B14_5 , B14_6 , B17_1 , B17_2 ,
B18_1 , B18_2 , B18_3 ,
B18_4 , B18_5 , B18_6 , B18_7 , B18_8 ,

B18_9 , B18_10 , B18_11 ,
B18_12 , B18_13 , B18_14 , B18_15 , B18_16 ,
B18_17 , B18_18 , . . . ,

*** 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)
- -
- - - - - - - - - - - - - - - - - - - -
476395.71 3744607.81 0.21902 (14021817) 476314.71
3744669.61 0.26421 (14021817)
476332.85 3744655.27 0.25406 (14021817) 476365.97
3744513.73 0.18724 (14090307)
476245.90 3744942.48 0.65300 (10020417) 476289.52
3745000.38 0.63286 (11091107)
476288.55 3745361.57 1.11406 (11091107) 475880.74
3745148.55 0.65533 (15090820)
475796.73 3745058.23 0.55701 (15090823) 475750.05
3745108.89 0.56733 (15090820)
475798.54 3745194.08 0.68904 (15090820) 475752.37
3745335.13 1.41511 (11010316)
475776.90 3745405.80 1.55877 (11010316) 475731.82
3745293.23 1.12234 (11010316)
475784.75 3745574.23 2.00776 (14090218) 475709.78
3745574.77 1.08872 (11070820)
475708.88 3745598.80 1.07587 (14090218) 475709.42
3745621.76 1.15035 (14090218)
475709.42 3745647.05 1.17374 (14090218) 475709.06
3745668.21 1.14233 (14090218)
475709.96 3745693.68 1.06335 (14090218) 475709.42
3745717.00 0.95713 (14090218)
475709.06 3745739.77 0.85689 (15092419) 475777.75
3745697.27 1.18625 (14090218)
475785.29 3745721.66 1.03093 (16010516) 475794.25
3745802.05 0.75458 (16010516)
475778.85 3745842.00 0.64792 (16010516) 475800.05
3745888.80 0.52516 (16010516)
475789.98 3745940.18 0.49138 (15101507) 475892.19
3745936.40 0.51158 (15101507)
475893.32 3746111.50 0.80696 (15101507) 476130.12
3746085.01 0.61879 (11091107)
476129.71 3745935.03 0.54413 (14113016) 475595.68
3746575.78 0.73011 (16010516)
475911.01 3746495.74 0.58784 (14041207) 475863.30
3746556.38 0.48661 (14041207)
475594.25 3746890.12 0.24242 (14072723) 476146.43
3746600.47 0.33333 (14113016)
476082.93 3746873.86 0.19151 (14113016) 475609.08
3746999.92 0.16789 (16123116)
475745.21 3747048.16 0.14950 (11070120) 475382.02
3746160.96 0.58465 (16062321)
475411.04 3746003.05 0.56688 (16081820) 474409.00
3746437.28 0.30497 (11082920)
476290.36 3746244.91 0.45999 (16082707) 476339.29
3746119.15 0.32695 (11091107)
476311.38 3746179.40 0.37348 (16082707) 476277.82
3746288.18 0.44391 (14022617)
476333.63 3746432.95 0.26097 (14041207) 476384.17
3745949.30 0.34197 (14041207)
476360.32 3745999.45 0.30504 (14041207) 476412.89
3745836.48 0.39940 (14041207)
476404.80 3745918.57 0.35453 (14041207) 476434.06

```
        3745820.87         0.37788  (14041207)
        476454.86   3745720.49         0.34911  (16040918)                    475797.42
        3744976.75         0.54677  (15090823)
        476060.39   3744909.25         0.67962  (14111116)                    475777.26
        3744882.37         0.53401  (15090720)
        475781.93   3744832.11         0.51012  (11080220)                    475779.60
        3744791.20         0.49457  (11080220)
        475786.02   3744729.84         0.47809  (11080220)                    475774.63
        3744924.73         0.55151  (15090720)
        475782.23   3744693.90         0.46288  (11080220)                    475768.20
        3744638.68         0.45626  (11080220)
        475787.19   3744589.00         0.42773  (11070223)                    475706.26
        3744502.22         0.38844  (11080220)
        475780.18   3744427.13         0.39485  (10082521)                    475764.11
        3744390.61         0.38717  (10082521)
        477060.85   3744371.76         0.10990  (16050618)                    476803.53
        3745166.88         0.16087  (11091107)
        477112.67   3745114.97         0.10200  (15111718)                    477464.43
        3745086.80         0.07286  (15012407)
        477531.57   3745005.51         0.06951  (15111718)                    475715.48
        3746455.63         1.35403  (14041207)
        475791.98   3746459.29         1.38971  (14041207)                    475771.33
        3746506.69         0.78579  (14113016)
        475775.18   3746458.34         1.43700  (14041207)                    475750.42
        3746454.29         1.48211  (14041207)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       09:48:53

                      PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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


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


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

B13      HIGH   1ST HIGH VALUE IS       0.52660  ON 11091107: AT (  476289.52,  3745000.38,
463.00,   463.00,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS       1.96392  ON 16010616: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS       0.56333  ON 11010316: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS       1.44127  ON 14041207: AT (  475750.42,  3746454.29,
466.99,   466.99,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS       2.00776  ON 14090218: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
```

```
                      DP = DISCPOLR
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:48:53

                      PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W186     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:      14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops PM2_5\13697 Ops PM2_5.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops PM2_5.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1       VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2       VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1       VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2       VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3       VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4       VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5       VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6       VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1       VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2       VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1       VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2       VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3       VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4       VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5       VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6       VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7       VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8       VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9       VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10      VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11      VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12      VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13      VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14      VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15      VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16      VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17      VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18      VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19      VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20      VOLUME     475689.035  3746191.893      469.000
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   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0001049562     5.000    44.819     1.400
   SRCPARAM B13_2        0.0001049562     5.000    44.819     1.400
   SRCPARAM B14_1        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_2        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_3        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_4        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_5        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_6        0.000061235     5.000    27.337     1.400
   SRCPARAM B17_1        0.0001049562     5.000    44.726     1.400
   SRCPARAM B17_2        0.0001049562     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000104956     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops PM2_5.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
```

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   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 OPS PM2_5.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 OPS PM2_5.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 OPS PM2_5.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 OPS PM2_5.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 OPS PM2_5.AD\24H_B18.PLT" 35
   SUMMFILE "13697 Ops PM2_5.sum"
OU FINISHED
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** Project Parameters
****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
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```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops PM2_5\13697 Ops PM2_5.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops PM2_5.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
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   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0001049562     5.000    44.819     1.400
   SRCPARAM B13_2        0.0001049562     5.000    44.819     1.400
   SRCPARAM B14_1        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_2        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_3        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_4        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_5        0.000061235     5.000    27.337     1.400
   SRCPARAM B14_6        0.000061235     5.000    27.337     1.400
   SRCPARAM B17_1        0.0001049562     5.000    44.726     1.400
   SRCPARAM B17_2        0.0001049562     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000104956     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000104956     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops PM2_5.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
```

```
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 OPS PM2_5.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 OPS PM2_5.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 OPS PM2_5.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 OPS PM2_5.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 OPS PM2_5.AD\24H_B18.PLT" 35
   SUMMFILE "13697 Ops PM2_5.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     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       10:45:20

                      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    35 Source(s),
        for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  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:     35 Source(s);       5 Source Group(s); and      78 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     35 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216

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

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;  Emission Rate
                  Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

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

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

 **Detailed Error/Message File:   13697 Ops
 PM2_5.err
 **File for Summary of Results:   13697 Ops
 PM2_5.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       10:45:20
```

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

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B13_1	0	0.10496E-03	476101.1	3745262.2	464.0	5.00	44.82	1.40	YES	
B13_2	0	0.10496E-03	476102.0	3745072.0	465.9	5.00	44.82	1.40	YES	
B14_1	0	0.61235E-04	475881.8	3745554.6	466.0	5.00	27.34	1.40	YES	
B14_2	0	0.61235E-04	475881.2	3745437.3	468.2	5.00	27.34	1.40	YES	
B14_3	0	0.61235E-04	475999.6	3745554.0	464.7	5.00	27.34	1.40	YES	
B14_4	0	0.61235E-04	476000.0	3745437.7	465.7	5.00	27.34	1.40	YES	
B14_5	0	0.61235E-04	476071.8	3745548.2	464.0	5.00	27.34	1.40	YES	
B14_6	0	0.61235E-04	476118.4	3745439.0	463.0	5.00	27.34	1.40	YES	
B17_1	0	0.10496E-03	475926.0	3746256.1	465.0	5.00	44.73	1.40	YES	
B17_2	0	0.10496E-03	476070.8	3746258.4	463.0	5.00	44.73	1.40	YES	
B18_1	0	0.10496E-04	475632.5	3746502.6	469.1	5.00	12.37	1.40	YES	
B18_2	0	0.10496E-04	475633.4	3746447.8	469.9	5.00	12.37	1.40	YES	
B18_3	0	0.10496E-04	475638.8	3746403.3	469.7	5.00	12.37	1.40	YES	
B18_4	0	0.10496E-04	475681.1	3746405.0	469.0	5.00	12.37	1.40	YES	
B18_5	0	0.10496E-04	475727.7	3746410.8	467.7	5.00	12.37	1.40	YES	
B18_6	0	0.10496E-04	475775.0	3746409.1	466.4	5.00	12.37	1.40	YES	
B18_7	0	0.10496E-04	475640.0	3746350.6	469.9	5.00	12.37	1.40	YES	
B18_8	0	0.10496E-04	475690.3	3746353.5	469.0	5.00	12.37	1.40	YES	
B18_9	0	0.10496E-04	475774.6	3746355.1	467.2	5.00	12.37	1.40	YES	
B18_10	0	0.10496E-04	475731.0	3746357.2	468.0	5.00	12.37	1.40	YES	
B18_11	0	0.10496E-04	475639.2	3746296.6	469.7	5.00	12.37	1.40	YES	
B18_12	0	0.10496E-04	475689.9	3746300.7	469.0	5.00	12.37	1.40	YES	
B18_13	0	0.10496E-04	475740.5	3746303.6	468.0	5.00	12.37	1.40	YES	
B18_14	0	0.10496E-04	475774.6	3746301.6	467.2	5.00	12.37	1.40	YES	
B18_15	0	0.10496E-04	475637.5	3746242.6	469.8	5.00	12.37	1.40	YES	
B18_16	0	0.10496E-04	475683.6	3746246.3	469.1	5.00	12.37	1.40		

```
 YES
 B18_17           0   0.10496E-04  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES
 B18_18           0   0.10496E-04  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES
 B18_19           0   0.10496E-04  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES
 B18_20           0   0.10496E-04  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES
 B18_21           0   0.10496E-04  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES
 B18_22           0   0.10496E-04  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES
 B18_23           0   0.10496E-04  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES
 B18_24           0   0.10496E-04  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES
 B18_25           0   0.10496E-04  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       10:45:20

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


                                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13        B13_1       , B13_2       ,

  B14        B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,

  B17        B17_1       , B17_2       ,

  B18        B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

             B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
             B18_15      , B18_16      ,

             B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
             B18_23      , B18_24      ,

             B18_25      ,

  ALL        B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

             B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
             B18_5       , B18_6       ,

             B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
             B18_13      , B18_14      ,

             B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
             B18_21      , B18_22      ,

             B18_23      , B18_24      , B18_25      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
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 *** AERMET - VERSION  16216 ***
 ***                                                                              ***       10:45:20

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


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

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


             2189641.   B13_1       , B13_2       , B14_1       , B14_2       , B14_3       ,
             B14_4       , B14_5       ,
 B14_6       ,

            B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
            B18_5       , B18_6       ,

            B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
            B18_13      , B18_14      ,

            B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
            B18_21      , B18_22      ,

            B18_23      , B18_24      , B18_25      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                              ***       10:45:20

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

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

    ( 476395.7, 3744607.8,     462.5,     462.5,       2.0);         ( 476314.7, 3744669.6,
    463.2,     463.2,       2.0);
    ( 476332.8, 3744655.3,     463.0,     463.0,       2.0);         ( 476366.0, 3744513.7,
    463.2,     463.2,       2.0);
    ( 476245.9, 3744942.5,     463.5,     463.5,       2.0);         ( 476289.5, 3745000.4,
    463.0,     463.0,       2.0);
    ( 476288.5, 3745361.6,     461.2,     461.2,       2.0);         ( 475880.7, 3745148.5,
    468.0,     468.0,       2.0);
    ( 475796.7, 3745058.2,     469.6,     469.6,       2.0);         ( 475750.0, 3745108.9,
    470.0,     470.0,       2.0);
    ( 475798.5, 3745194.1,     469.1,     469.1,       2.0);         ( 475752.4, 3745335.1,
    469.9,     469.9,       2.0);
    ( 475776.9, 3745405.8,     470.0,     470.0,       2.0);         ( 475731.8, 3745293.2,
    470.6,     470.6,       2.0);
    ( 475784.8, 3745574.2,     467.8,     467.8,       2.0);         ( 475709.8, 3745574.8,
    469.3,     469.3,       2.0);
    ( 475708.9, 3745598.8,     469.4,     469.4,       2.0);         ( 475709.4, 3745621.8,
    469.2,     469.2,       2.0);
    ( 475709.4, 3745647.0,     469.0,     469.0,       2.0);         ( 475709.1, 3745668.2,
    469.0,     469.0,       2.0);
    ( 475710.0, 3745693.7,     469.3,     469.3,       2.0);         ( 475709.4, 3745717.0,
    469.4,     469.4,       2.0);
    ( 475709.1, 3745739.8,     469.4,     469.4,       2.0);         ( 475777.8, 3745697.3,
    468.0,     468.0,       2.0);
    ( 475785.3, 3745721.7,     467.8,     467.8,       2.0);         ( 475794.2, 3745802.0,
    467.5,     467.5,       2.0);
    ( 475778.8, 3745842.0,     468.0,     468.0,       2.0);         ( 475800.0, 3745888.8,
```

```
    467.3,     467.3,        2.0);
    ( 475790.0, 3745940.2,     467.0,     467.0,       2.0);         ( 475892.2, 3745936.4,
    465.2,     465.2,        2.0);
    ( 475893.3, 3746111.5,     465.0,     465.0,       2.0);         ( 476130.1, 3746085.0,
    462.0,     462.0,        2.0);
    ( 476129.7, 3745935.0,     462.0,     462.0,       2.0);         ( 475595.7, 3746575.8,
    469.1,     469.1,        2.0);
    ( 475911.0, 3746495.7,     464.0,     464.0,       2.0);         ( 475863.3, 3746556.4,
    464.5,     464.5,        2.0);
    ( 475594.2, 3746890.1,     468.4,     468.4,       2.0);         ( 476146.4, 3746600.5,
    460.7,     460.7,        2.0);
    ( 476082.9, 3746873.9,     459.9,     459.9,       2.0);         ( 475609.1, 3746999.9,
    467.0,     467.0,        2.0);
    ( 475745.2, 3747048.2,     464.2,     464.2,       2.0);         ( 475382.0, 3746161.0,
    476.1,     476.1,        2.0);
    ( 475411.0, 3746003.0,     475.3,     475.3,       2.0);         ( 474409.0, 3746437.3,
    518.9,     524.0,        2.0);
    ( 476290.4, 3746244.9,     460.0,     460.0,       2.0);         ( 476339.3, 3746119.1,
    460.0,     460.0,        2.0);
    ( 476311.4, 3746179.4,     460.0,     460.0,       2.0);         ( 476277.8, 3746288.2,
    460.0,     460.0,        2.0);
    ( 476333.6, 3746432.9,     459.0,     459.0,       2.0);         ( 476384.2, 3745949.3,
    460.0,     460.0,        2.0);
    ( 476360.3, 3745999.4,     460.0,     460.0,       2.0);         ( 476412.9, 3745836.5,
    460.0,     460.0,        2.0);
    ( 476404.8, 3745918.6,     460.0,     460.0,       2.0);         ( 476434.1, 3745820.9,
    460.0,     460.0,        2.0);
    ( 476454.9, 3745720.5,     459.0,     459.0,       2.0);         ( 475797.4, 3744976.8,
    471.0,     471.0,        2.0);
    ( 476060.4, 3744909.2,     466.7,     466.7,       2.0);         ( 475777.3, 3744882.4,
    472.0,     472.0,        2.0);
    ( 475781.9, 3744832.1,     471.9,     471.9,       2.0);         ( 475779.6, 3744791.2,
    472.0,     472.0,        2.0);
    ( 475786.0, 3744729.8,     472.0,     472.0,       2.0);         ( 475774.6, 3744924.7,
    471.8,     471.8,        2.0);
    ( 475782.2, 3744693.9,     472.0,     472.0,       2.0);         ( 475768.2, 3744638.7,
    473.0,     473.0,        2.0);
    ( 475787.2, 3744589.0,     472.1,     472.1,       2.0);         ( 475706.3, 3744502.2,
    473.1,     473.1,        2.0);
    ( 475780.2, 3744427.1,     473.0,     473.0,       2.0);         ( 475764.1, 3744390.6,
    473.5,     473.5,        2.0);
    ( 477060.8, 3744371.8,     455.0,     455.0,       2.0);         ( 476803.5, 3745166.9,
    456.0,     456.0,        2.0);
    ( 477112.7, 3745115.0,     453.6,     453.6,       2.0);         ( 477464.4, 3745086.8,
    450.0,     450.0,        2.0);
    ( 477531.6, 3745005.5,     450.0,     450.0,       2.0);         ( 475715.5, 3746455.6,
    468.1,     468.1,        2.0);
    ( 475792.0, 3746459.3,     466.3,     466.3,       2.0);         ( 475771.3, 3746506.7,
    466.3,     466.3,        2.0);
    ( 475775.2, 3746458.3,     466.7,     466.7,       2.0);         ( 475750.4, 3746454.3,
    467.0,     467.0,        2.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        10:45:20

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

                                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1
```

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

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


                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                              (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:45:20

                      PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

    Surface file:
    PERI_V9_ADJU\PERI_v9.SFC                                                            Met
    Version:  16216
    Profile file:
    PERI_V9_ADJU\PERI_v9.PFL
    Surface format:
    FREE

    Profile format:
    FREE

    Surface station no.:     3171                    Upper air station no.:     3190
                   Name: UNKNOWN                                      Name:
                   UNKNOWN
                   Year:   2010                                       Year:   2010

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
 10 01 01   1 01   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 335.    9.1  282.5    5.5
 10 01 01   1 02   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 142.    9.1  280.9    5.5
 10 01 01   1 03   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 324.    9.1  280.4    5.5
 10 01 01   1 04   -1.3  0.064 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 294.    9.1  278.8    5.5
 10 01 01   1 05   -3.9  0.088 -9.000 -9.000 -999.   62.     15.0  0.19   0.61   1.00    0.90
 205.    9.1  278.1    5.5
 10 01 01   1 06   -1.3  0.065 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 3.    9.1  277.0    5.5
 10 01 01   1 07   -8.0  0.125 -9.000 -9.000 -999.  106.     21.0  0.19   0.61   1.00    1.30
```

```
99.    9.1  277.0    5.5
10 01 01   1 08   -3.3  0.086 -9.000 -9.000 -999.   61.     16.8  0.19   0.61   0.54    0.90
319.    9.1  278.8    5.5
10 01 01   1 09   20.1  0.128  0.307  0.010   49.  110.     -9.0  0.19   0.61   0.33    0.90
239.    9.1  284.2    5.5
10 01 01   1 10   56.7  0.087  0.560  0.010  107.   62.     -1.0  0.19   0.61   0.26    0.40
188.    9.1  289.2    5.5
10 01 01   1 11   81.5  0.323  0.867  0.008  277.  441.    -35.9  0.19   0.61   0.23    2.70
310.    9.1  290.9    5.5
10 01 01   1 12   97.1  0.281  1.058  0.008  421.  357.    -19.7  0.19   0.61   0.22    2.20
357.    9.1  293.1    5.5
10 01 01   1 13   92.2  0.279  1.117  0.008  523.  354.    -20.4  0.19   0.61   0.22    2.20
356.    9.1  293.8    5.5
10 01 01   1 14   77.6  0.275  1.102  0.008  595.  347.    -23.2  0.19   0.61   0.23    2.20
50.    9.1  294.2    5.5
10 01 01   1 15   54.9  0.230  1.006  0.008  640.  266.    -19.2  0.19   0.61   0.27    1.80
53.    9.1  293.8    5.5
10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61   0.36    1.80
11.    9.1  292.5    5.5
10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61   0.64    0.90
351.    9.1  290.4    5.5
10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
186.    9.1  287.5    5.5
10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
275.    9.1  285.9    5.5
10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
181.    9.1  285.4    5.5
10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
318.    9.1  284.9    5.5
10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
196.    9.1  283.1    5.5
10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
330.    9.1  281.4    5.5
10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
332.    9.1  280.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

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


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

*** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: B13   ***
INCLUDING SOURCE(S):   B13_1   , B13_2   ,

*** 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)
476395.71	3744607.81	0.00131b	(10102124)	476314.71	3744669.61	0.00171b	(10102124)

476332.85   3744655.27   0.00161b (10102124)   476365.97
3744513.73   0.00108b (10102124)
476245.90   3744942.48   0.00581 (14120124)   476289.52
3745000.38   0.00542b (14111524)
476288.55   3745361.57   0.00493 (15122224)   475880.74
3745148.55   0.00553 (11010224)
475796.73   3745058.23   0.00398 (11010224)   475750.05
3745108.89   0.00336 (11010224)
475798.54   3745194.08   0.00380 (11010224)   475752.37
3745335.13   0.00254 (11121224)
475776.90   3745405.80   0.00275 (11121224)   475731.82
3745293.23   0.00239 (11121224)
475784.75   3745574.23   0.00178m (10121824)   475709.78
3745574.77   0.00169m (10060524)
475708.88   3745598.80   0.00163m (10121824)   475709.42
3745621.76   0.00161m (10121824)
475709.42   3745647.05   0.00158m (10121824)   475709.06
3745668.21   0.00155m (10121824)
475709.96   3745693.68   0.00156m (10121824)   475709.42
3745717.00   0.00153m (10121824)
475709.06   3745739.77   0.00150m (10121824)   475777.75
3745697.27   0.00145m (10121824)
475785.29   3745721.66   0.00143 (14022724)   475794.25
3745802.05   0.00135 (14022724)
475778.85   3745842.00   0.00127 (14022724)   475800.05
3745888.80   0.00120 (14022724)
475789.98   3745940.18   0.00084 (14121224)   475892.19
3745936.40   0.00100b (10121924)
475893.32   3746111.50   0.00075b (10121924)   476130.12
3746085.01   0.00077b (10121924)
476129.71   3745935.03   0.00104b (10121924)   475595.68
3746575.78   0.00070 (15060424)
475911.01   3746495.74   0.00045b (10121924)   475863.30
3746556.38   0.00041b (10121924)
475594.25   3746890.12   0.00040 (15060424)   476146.43
3746600.47   0.00035b (10121924)
476082.93   3746873.86   0.00028b (10121924)   475609.08
3746999.92   0.00023b (10121924)
475745.21   3747048.16   0.00024b (10121924)   475382.02
3746160.96   0.00085m (16123124)
475411.04   3746003.05   0.00095m (16123124)   474409.00
3746437.28   0.00061m (10042324)
476290.36   3746244.91   0.00049 (16112024)   476339.29
3746119.15   0.00062 (16112024)
476311.38   3746179.40   0.00056 (16112024)   476277.82
3746288.18   0.00046 (11111924)
476333.63   3746432.95   0.00038 (16112024)   476384.17
3745949.30   0.00081 (16112024)
476360.32   3745999.45   0.00076 (16112024)   476412.89
3745836.48   0.00092 (16112024)
476404.80   3745918.57   0.00082 (16112024)   476434.06
3745820.87   0.00089 (16112024)
476454.86   3745720.49   0.00105 (15122224)   475797.42
3744976.75   0.00362 (11010224)
476060.39   3744909.25   0.00683 (14010524)   475777.26
3744882.37   0.00254 (14111824)
475781.93   3744832.11   0.00241 (14111824)   475779.60
3744791.20   0.00229 (14122324)
475786.02   3744729.84   0.00210 (14122324)   475774.63
3744924.73   0.00291 (11010224)
475782.23   3744693.90   0.00193 (14122324)   475768.20
3744638.68   0.00167 (14122324)
475787.19   3744589.00   0.00153 (11010124)   475706.26
3744502.22   0.00118 (14122324)
475780.18   3744427.13   0.00123 (11010124)   475764.11
3744390.61   0.00116 (11010124)

477060.85   3744371.76   0.00037b (14111524)   476803.53
3745166.88   0.00086m (16031424)
477112.67   3745114.97   0.00047c (14121524)   477464.43
3745086.80   0.00029c (14121524)
477531.57   3745005.51   0.00027c (14121524)   475715.48
3746455.63   0.00061 (15060424)
475791.98   3746459.29   0.00043b (10121924)   475771.33
3746506.69   0.00040b (10121924)
475775.18   3746458.34   0.00042b (10121924)   475750.42
3746454.29   0.00041b (10121924)

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops. ***   01/18/23
*** AERMET - VERSION 16216 ***
***   ***   10:45:20

PAGE   9
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: B14   ***
INCLUDING SOURCE(S):   B14_1   , B14_2   ,
B14_3   , B14_4   , B14_5   ,
B14_6   ,

*** 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)
- -
476395.71   3744607.81   0.00107b (10102124)   476314.71
3744669.61   0.00123 (14063024)
476332.85   3744655.27   0.00118 (14063024)   476365.97
3744513.73   0.00095 (14063024)
476245.90   3744942.48   0.00228b (10102124)   476289.52
3745000.38   0.00252b (10102124)
476288.55   3745361.57   0.00686b (14111524)   475880.74
3745148.55   0.00490 (14122324)
475796.73   3745058.23   0.00367 (11010124)   475750.05
3745108.89   0.00421 (14122324)
475798.54   3745194.08   0.00612 (14122324)   475752.37
3745335.13   0.00895 (11010224)
475776.90   3745405.80   0.01486c (14120324)   475731.82
3745293.23   0.00692c (15121824)
475784.75   3745574.23   0.01630c (14121524)   475709.78
3745574.77   0.00837c (14121524)
475708.88   3745598.80   0.00792c (14121524)   475709.42
3745621.76   0.00760 (11121224)
475709.42   3745647.05   0.00707 (11121224)   475709.06
3745668.21   0.00691 (11121224)
475709.96   3745693.68   0.00660 (11121224)   475709.42
3745717.00   0.00620 (11121224)
475709.06   3745739.77   0.00580 (11121224)   475777.75
3745697.27   0.00847 (11121224)
475785.29   3745721.66   0.00775 (11121224)   475794.25
3745802.05   0.00555 (16010524)
475778.85   3745842.00   0.00473 (10012024)   475800.05
3745888.80   0.00423 (14121224)
475789.98   3745940.18   0.00349 (14121224)   475892.19
3745936.40   0.00426b (10121924)
475893.32   3746111.50   0.00263b (10121924)   476130.12
3746085.01   0.00229 (11111924)
476129.71   3745935.03   0.00356 (11111924)   475595.68

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      3746575.78        0.00151  (14022724)
      475911.01   3746495.74        0.00122b (10121924)                 475863.30
      3746556.38        0.00111b (10121924)
      475594.25   3746890.12        0.00090  (15060424)                 476146.43
      3746600.47        0.00082  (11111924)
      476082.93   3746873.86        0.00061  (16032824)                 475609.08
      3746999.92        0.00063b (10121924)
      475745.21   3747048.16        0.00059b (10121924)                 475382.02
      3746160.96        0.00217m (16123124)
      475411.04   3746003.05        0.00271m (10060524)                 474409.00
      3746437.28        0.00078m (14061724)
      476290.36   3746244.91        0.00140  (16112024)                 476339.29
      3746119.15        0.00155  (16112024)
      476311.38   3746179.40        0.00151  (16112024)                 476277.82
      3746288.18        0.00133  (16112024)
      476333.63   3746432.95        0.00101  (16112024)                 476384.17
      3745949.30        0.00208  (15122224)
      476360.32   3745999.45        0.00195  (15122224)                 476412.89
      3745836.48        0.00243c (14121524)
      476404.80   3745918.57        0.00212  (15122224)                 476434.06
      3745820.87        0.00238c (14121524)
      476454.86   3745720.49        0.00268c (14121524)                 475797.42
      3744976.75        0.00312  (11010124)
      476060.39   3744909.25        0.00234  (16122724)                 475777.26
      3744882.37        0.00273  (11010124)
      475781.93   3744832.11        0.00245  (11010124)                 475779.60
      3744791.20        0.00226  (11010124)
      475786.02   3744729.84        0.00200  (11010124)                 475774.63
      3744924.73        0.00296  (11010124)
      475782.23   3744693.90        0.00187  (11010124)                 475768.20
      3744638.68        0.00175  (11010124)
      475787.19   3744589.00        0.00153  (11010124)                 475706.26
      3744502.22        0.00140  (11010124)
      475780.18   3744427.13        0.00122  (11011124)                 475764.11
      3744390.61        0.00118  (11011124)
      477060.85   3744371.76        0.00047  (16011824)                 476803.53
      3745166.88        0.00112m (16031424)
      477112.67   3745114.97        0.00066m (16031424)                 477464.43
      3745086.80        0.00043m (16031424)
      477531.57   3745005.51        0.00039m (16031424)                 475715.48
      3746455.63        0.00150  (15060424)
      475791.98   3746459.29        0.00136b (10121924)                 475771.33
      3746506.69        0.00124b (10121924)
      475775.18   3746458.34        0.00134b (10121924)                 475750.42
      3746454.29        0.00131b (10121924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        10:45:20

                     PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B17      ***
                                    INCLUDING SOURCE(S):     B17_1       , B17_2       ,

                                              *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
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476395.71   3744607.81   0.00026 (16122724)   476314.71
3744669.61   0.00028 (16122724)
476332.85   3744655.27   0.00027 (16122724)   476365.97
3744513.73   0.00024 (16122724)
476245.90   3744942.48   0.00037 (16122724)   476289.52
3745000.38   0.00039 (16122724)
476288.55   3745361.57   0.00065 (14063024)   475880.74
3745148.55   0.00052 (14011524)
475796.73   3745058.23   0.00054 (10073024)   475750.05
3745108.89   0.00058 (11011124)
475798.54   3745194.08   0.00063 (11011124)   475752.37
3745335.13   0.00083 (11010124)
475776.90   3745405.80   0.00095 (11010124)   475731.82
3745293.23   0.00081 (11010124)
475784.75   3745574.23   0.00100 (11010124)   475709.78
3745574.77   0.00120 (11010124)
475708.88   3745598.80   0.00126 (11010124)   475709.42
3745621.76   0.00130 (11010124)
475709.42   3745647.05   0.00135 (11010124)   475709.06
3745668.21   0.00140 (11010124)
475709.96   3745693.68   0.00148 (11010124)   475709.42
3745717.00   0.00155 (11010124)
475709.06   3745739.77   0.00165 (14122324)   475777.75
3745697.27   0.00131 (14122324)
475785.29   3745721.66   0.00141 (14122324)   475794.25
3745802.05   0.00184 (14122324)
475778.85   3745842.00   0.00210 (14122324)   475800.05
3745888.80   0.00252 (14122324)
475789.98   3745940.18   0.00301 (14122324)   475892.19
3745936.40   0.00300 (15011124)
475893.32   3746111.50   0.00943c (15121824)   476130.12
3746085.01   0.00724 (14120124)
476129.71   3745935.03   0.00316 (14120124)   475595.68
3746575.78   0.00206m (10060524)
475911.01   3746495.74   0.00545b (10121924)   475863.30
3746556.38   0.00361 (14121224)
475594.25   3746890.12   0.00140 (14022724)   476146.43
3746600.47   0.00276 (14113024)
476082.93   3746873.86   0.00128 (11111924)   475609.08
3746999.92   0.00088 (14022724)
475745.21   3747048.16   0.00086b (10121924)   475382.02
3746160.96   0.00185 (11010224)
475411.04   3746003.05   0.00178c (14120324)   474409.00
3746437.28   0.00047 (14040424)
476290.36   3746244.91   0.00446c (14121524)   476339.29
3746119.15   0.00288b (14111524)
476311.38   3746179.40   0.00368m (16031424)   476277.82
3746288.18   0.00482c (14121524)
476333.63   3746432.95   0.00264c (14121524)   476384.17
3745949.30   0.00177 (16011824)
476360.32   3745999.45   0.00209b (14111524)   476412.89
3745836.48   0.00133 (16011824)
476404.80   3745918.57   0.00158 (16011824)   476434.06
3745820.87   0.00124 (16011824)
476454.86   3745720.49   0.00098 (16011824)   475797.42
3744976.75   0.00056 (10073024)
476060.39   3744909.25   0.00043 (14011524)   475777.26
3744882.37   0.00054 (10073024)
475781.93   3744832.11   0.00052 (10073024)   475779.60
3744791.20   0.00050 (10073024)
475786.02   3744729.84   0.00048 (10073024)   475774.63
3744924.73   0.00055 (10073024)
475782.23   3744693.90   0.00046 (10073024)   475768.20
3744638.68   0.00046 (10073024)
475787.19   3744589.00   0.00043 (10073024)   475706.26
3744502.22   0.00040 (10073024)

```
      475780.18   3744427.13        0.00040  (10073024)                   475764.11
      3744390.61         0.00039  (10073024)
      477060.85   3744371.76        0.00017  (15101624)                   476803.53
      3745166.88         0.00035c (16050824)
      477112.67   3745114.97        0.00025  (16011824)                   477464.43
      3745086.80         0.00019b (14111524)
      477531.57   3745005.51        0.00017b (14111524)                   475715.48
      3746455.63         0.00364  (11121224)
      475791.98   3746459.29        0.00455  (11121224)                   475771.33
      3746506.69         0.00343  (16010524)
      475775.18   3746458.34        0.00425  (11121224)                   475750.42
      3746454.29         0.00386  (11121224)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:45:20

                   PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  B18      ***
                                  INCLUDING SOURCE(S):     B18_1       , B18_2       ,
                                  B18_3       , B18_4       , B18_5       ,
                 B18_6       , B18_7       , B18_8       , B18_9       , B18_10      ,
                 B18_11      , B18_12      , B18_13      ,
                 B18_14      , B18_15      , B18_16      , B18_17      , B18_18      ,
                 B18_19      , B18_20      , B18_21      ,
                 B18_22      , B18_23      , B18_24      , B18_25      ,

                                             *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        0.00029  (14063024)                   476314.71
      3744669.61         0.00032  (14063024)
      476332.85   3744655.27        0.00031  (14063024)                   476365.97
      3744513.73         0.00028  (14063024)
      476245.90   3744942.48        0.00042  (14063024)                   476289.52
      3745000.38         0.00042b (10102124)
      476288.55   3745361.57        0.00061c (16050824)                   475880.74
      3745148.55         0.00058  (16122724)
      475796.73   3745058.23        0.00052  (14011524)                   475750.05
      3745108.89         0.00056  (14011524)
      475798.54   3745194.08        0.00061  (14011524)                   475752.37
      3745335.13         0.00078  (14011524)
      475776.90   3745405.80        0.00087  (14011524)                   475731.82
      3745293.23         0.00081  (14011524)
      475784.75   3745574.23        0.00125  (16122724)                   475709.78
      3745574.77         0.00124  (14011524)
      475708.88   3745598.80        0.00131  (14011524)                   475709.42
      3745621.76         0.00139  (14011524)
      475709.42   3745647.05        0.00148  (14011524)                   475709.06
      3745668.21         0.00156  (14011524)
      475709.96   3745693.68        0.00167  (14011524)                   475709.42
      3745717.00         0.00179  (14011524)
      475709.06   3745739.77        0.00191  (14011524)                   475777.75
      3745697.27         0.00172  (16122724)
      475785.29   3745721.66        0.00185  (16122724)                   475794.25
      3745802.05         0.00238  (16122724)
      475778.85   3745842.00        0.00278  (16122724)                   475800.05
```

```
      3745888.80        0.00326  (16122724)
      475789.98   3745940.18        0.00414  (16122724)                475892.19
      3745936.40        0.00358b (10102124)
      475893.32   3746111.50        0.00719  (16011824)                476130.12
      3746085.01        0.00223b (14111524)
      476129.71   3745935.03        0.00180  (16011824)                475595.68
      3746575.78        0.00863  (14121224)
      475911.01   3746495.74        0.00548  (15122224)                475863.30
      3746556.38        0.00519  (14121724)
      475594.25   3746890.12        0.00220b (10121924)                476146.43
      3746600.47        0.00174c (14121524)
      476082.93   3746873.86        0.00119  (15122224)                475609.08
      3746999.92        0.00167b (10121924)
      475745.21   3747048.16        0.00130b (10121924)                475382.02
      3746160.96        0.00498  (11010224)
      475411.04   3746003.05        0.00345  (14111824)                474409.00
      3746437.28        0.00070  (14040424)
      476290.36   3746244.91        0.00149m (16031424)                476339.29
      3746119.15        0.00125m (16031424)
      476311.38   3746179.40        0.00138m (16031424)                476277.82
      3746288.18        0.00154m (16031424)
      476333.63   3746432.95        0.00126c (14121524)                476384.17
      3745949.30        0.00100b (14111524)
      476360.32   3745999.45        0.00110m (16031424)                476412.89
      3745836.48        0.00087b (14111524)
      476404.80   3745918.57        0.00094b (14111524)                476434.06
      3745820.87        0.00083b (14111524)
      476454.86   3745720.49        0.00073b (14111524)                475797.42
      3744976.75        0.00054  (14011524)
      476060.39   3744909.25        0.00042  (16122724)                475777.26
      3744882.37        0.00053  (16011124)
      475781.93   3744832.11        0.00049  (16011124)                475779.60
      3744791.20        0.00048  (16011124)
      475786.02   3744729.84        0.00045  (16011124)                475774.63
      3744924.73        0.00054  (16011124)
      475782.23   3744693.90        0.00043  (16011124)                475768.20
      3744638.68        0.00057  (16011124)
      475787.19   3744589.00        0.00044  (16011124)                475706.26
      3744502.22        0.00046  (16011124)
      475780.18   3744427.13        0.00047  (16011124)                475764.11
      3744390.61        0.00046  (16011124)
      477060.85   3744371.76        0.00019c (16050824)                476803.53
      3745166.88        0.00032  (16011824)
      477112.67   3745114.97        0.00025b (14111524)                477464.43
      3745086.80        0.00019b (14111524)
      477531.57   3745005.51        0.00017b (14111524)                475715.48
      3746455.63        0.02394  (11121924)
      475791.98   3746459.29        0.01640  (14113024)                475771.33
      3746506.69        0.01136  (11111924)
      475775.18   3746458.34        0.01884  (11111924)                475750.42
      3746454.29        0.02221  (11111924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                     ***        10:45:20

                    PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                              INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                              B14_1       , B14_2       , B14_3       ,
               B14_4       , B14_5       , B14_6       , B17_1       , B17_2       ,
               B18_1       , B18_2       , B18_3       ,
               B18_4       , B18_5       , B18_6       , B18_7       , B18_8       ,
```

B18_9 , B18_10 , B18_11 ,
B18_12 , B18_13 , B18_14 , B18_15 , B18_16 ,
B18_17 , B18_18 , . . . ,

*** 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)
- -
- - - - - - - - - - - - - - - - - - -
476395.71 3744607.81 0.00287b (10102124) 476314.71
3744669.61 0.00344b (10102124)
476332.85 3744655.27 0.00330b (10102124) 476365.97
3744513.73 0.00250 (14063024)
476245.90 3744942.48 0.00876 (14120124) 476289.52
3745000.38 0.00828b (14111524)
476288.55 3745361.57 0.01256m (16031424) 475880.74
3745148.55 0.01106c (14121524)
475796.73 3745058.23 0.00700c (10122124) 475750.05
3745108.89 0.00690c (10122124)
475798.54 3745194.08 0.00926c (14121524) 475752.37
3745335.13 0.01179 (11010224)
475776.90 3745405.80 0.01787c (14120324) 475731.82
3745293.23 0.00969 (11010224)
475784.75 3745574.23 0.01981c (14121524) 475709.78
3745574.77 0.01158c (14121524)
475708.88 3745598.80 0.01117c (14121524) 475709.42
3745621.76 0.01080c (14121524)
475709.42 3745647.05 0.01035c (14121524) 475709.06
3745668.21 0.01005 (11121224)
475709.96 3745693.68 0.00980 (11121224) 475709.42
3745717.00 0.00946 (11121224)
475709.06 3745739.77 0.00914 (11121224) 475777.75
3745697.27 0.01178 (11121224)
475785.29 3745721.66 0.01116c (14121524) 475794.25
3745802.05 0.00957c (14121524)
475778.85 3745842.00 0.00908c (14121524) 475800.05
3745888.80 0.00930c (14121524)
475789.98 3745940.18 0.00982c (14121524) 475892.19
3745936.40 0.01000c (14121524)
475893.32 3746111.50 0.01834c (14121524) 476130.12
3746085.01 0.01132m (16031424)
476129.71 3745935.03 0.00844m (16031424) 475595.68
3746575.78 0.01149 (14121224)
475911.01 3746495.74 0.01133c (14121524) 475863.30
3746556.38 0.00926c (14121524)
475594.25 3746890.12 0.00425b (10121924) 476146.43
3746600.47 0.00523c (14121524)
476082.93 3746873.86 0.00307 (11111924) 475609.08
3746999.92 0.00323b (10121924)
475745.21 3747048.16 0.00298b (10121924) 475382.02
3746160.96 0.00785c (14120324)
475411.04 3746003.05 0.00681m (10060524) 474409.00
3746437.28 0.00206 (14040424)
476290.36 3746244.91 0.00759c (14121524) 476339.29
3746119.15 0.00612m (16031424)
476311.38 3746179.40 0.00688m (16031424) 476277.82
3746288.18 0.00789c (14121524)
476333.63 3746432.95 0.00508c (14121524) 476384.17
3745949.30 0.00537m (16031424)
476360.32 3745999.45 0.00562m (16031424) 476412.89
3745836.48 0.00531m (16031424)
476404.80 3745918.57 0.00520m (16031424) 476434.06

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        3745820.87        0.00515m (16031424)
        476454.86   3745720.49        0.00527m (16031424)                 475797.42
        3744976.75        0.00641  (11010124)
        476060.39   3744909.25        0.00991  (14010524)                 475777.26
        3744882.37        0.00561  (11010124)
        475781.93   3744832.11        0.00521  (11010124)                 475779.60
        3744791.20        0.00486  (11010124)
        475786.02   3744729.84        0.00445  (11010124)                 475774.63
        3744924.73        0.00592  (11010124)
        475782.23   3744693.90        0.00418  (11010124)                 475768.20
        3744638.68        0.00390  (11010124)
        475787.19   3744589.00        0.00358  (11010124)                 475706.26
        3744502.22        0.00308  (11010124)
        475780.18   3744427.13        0.00289  (11010124)                 475764.11
        3744390.61        0.00278  (11010124)
        477060.85   3744371.76        0.00113  (16011824)                 476803.53
        3745166.88        0.00257m (16031424)
        477112.67   3745114.97        0.00160m (16031424)                 477464.43
        3745086.80        0.00107m (16031424)
        477531.57   3745005.51        0.00098m (16031424)                 475715.48
        3746455.63        0.02830  (11121924)
        475791.98   3746459.29        0.02108c (14121524)                 475771.33
        3746506.69        0.01497  (11111924)
        475775.18   3746458.34        0.02320  (14113024)                 475750.42
        3746454.29        0.02672c (14121524)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                     ***        10:45:20

                      PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                                  *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                      ** CONC OF PM_2.5   IN
                                      MICROGRAMS/M**3                          **


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


B13      HIGH   1ST HIGH VALUE IS       0.00683  ON 14010524: AT (  476060.39,  3744909.25,
466.65,   466.65,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS       0.01630c ON 14121524: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS       0.00943c ON 15121824: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS       0.02394  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS       0.02830  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
```

```
 *** 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            4 Warning Message(s)
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W186     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:     14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

```
**
***************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops PM10\13697 Ops PM10.ADI
**
***************************************
**
**
***************************************
** AERMOD Control Pathway
***************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops PM10.err"
CO FINISHED
**
***************************************
** AERMOD Source Pathway
***************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1         VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2         VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1         VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2         VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3         VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4         VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5         VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6         VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1         VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2         VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1         VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2         VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3         VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4         VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5         VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6         VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7         VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8         VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9         VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10        VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11        VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12        VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13        VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14        VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15        VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16        VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17        VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18        VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19        VOLUME     475635.866  3746187.323      469.300
   LOCATION B18_20        VOLUME     475689.035  3746191.893      469.000
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   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0003149947     5.000    44.819     1.400
   SRCPARAM B13_2        0.0003149947     5.000    44.819     1.400
   SRCPARAM B14_1        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_2        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_3        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_4        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_5        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_6        0.0001486775     5.000    27.337     1.400
   SRCPARAM B17_1        0.000236876     5.000    44.726     1.400
   SRCPARAM B17_2        0.000236876     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000251996     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops PM10.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
```

```
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 OPS PM10.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 OPS PM10.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 OPS PM10.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 OPS PM10.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 OPS PM10.AD\24H_B18.PLT" 35
   SUMMFILE "13697 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
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/18/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops PM10\13697 Ops PM10.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697 Ops\13697 Ops.
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "13697 Ops PM10.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION B13_1        VOLUME     476101.130  3745262.196      464.000
   LOCATION B13_2        VOLUME     476101.967  3745071.963      465.860
   LOCATION B14_1        VOLUME     475881.820  3745554.650      466.000
   LOCATION B14_2        VOLUME     475881.197  3745437.314      468.250
   LOCATION B14_3        VOLUME     475999.575  3745554.030      464.680
   LOCATION B14_4        VOLUME     475999.990  3745437.729      465.660
   LOCATION B14_5        VOLUME     476071.847  3745548.215      464.000
   LOCATION B14_6        VOLUME     476118.368  3745438.975      463.000
   LOCATION B17_1        VOLUME     475926.010  3746256.070      465.040
   LOCATION B17_2        VOLUME     476070.776  3746258.355      463.000
   LOCATION B18_1        VOLUME     475632.540  3746502.600      469.110
   LOCATION B18_2        VOLUME     475633.373  3746447.771      469.880
   LOCATION B18_3        VOLUME     475638.773  3746403.325      469.700
   LOCATION B18_4        VOLUME     475681.143  3746404.986      469.000
   LOCATION B18_5        VOLUME     475727.666  3746410.801      467.740
   LOCATION B18_6        VOLUME     475775.020  3746409.140      466.360
   LOCATION B18_7        VOLUME     475640.020  3746350.570      469.940
   LOCATION B18_8        VOLUME     475690.281  3746353.478      468.980
   LOCATION B18_9        VOLUME     475774.605  3746355.140      467.170
   LOCATION B18_10       VOLUME     475730.989  3746357.217      467.990
   LOCATION B18_11       VOLUME     475639.189  3746296.570      469.690
   LOCATION B18_12       VOLUME     475689.866  3746300.724      469.000
   LOCATION B18_13       VOLUME     475740.543  3746303.632      468.000
   LOCATION B18_14       VOLUME     475774.605  3746301.555      467.170
   LOCATION B18_15       VOLUME     475637.527  3746242.570      469.800
   LOCATION B18_16       VOLUME     475683.635  3746246.308      469.070
   LOCATION B18_17       VOLUME     475729.328  3746245.478      468.000
   LOCATION B18_18       VOLUME     475774.189  3746247.970      467.190
   LOCATION B18_19       VOLUME     475635.866  3746187.323      469.300
```

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   LOCATION B18_20       VOLUME     475689.035  3746191.893      469.000
   LOCATION B18_21       VOLUME     475740.128  3746192.308      467.690
   LOCATION B18_22       VOLUME     475775.020  3746192.724      467.090
   LOCATION B18_23       VOLUME     475689.451  3746183.585      469.000
   LOCATION B18_24       VOLUME     475743.451  3746185.247      467.450
   LOCATION B18_25       VOLUME     475771.282  3746185.662      467.090
** Source Parameters **
   SRCPARAM B13_1        0.0003149947     5.000    44.819     1.400
   SRCPARAM B13_2        0.0003149947     5.000    44.819     1.400
   SRCPARAM B14_1        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_2        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_3        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_4        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_5        0.0001486775     5.000    27.337     1.400
   SRCPARAM B14_6        0.0001486775     5.000    27.337     1.400
   SRCPARAM B17_1        0.000236876     5.000    44.726     1.400
   SRCPARAM B17_2        0.000236876     5.000    44.726     1.400
   SRCPARAM B18_1        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_2        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_3        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_4        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_5        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_6        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_7        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_8        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_9        0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_10       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_11       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_12       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_13       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_14       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_15       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_16       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_17       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_18       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_19       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_20       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_21       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_22       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_23       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_24       0.0000251996     5.000    12.365     1.400
   SRCPARAM B18_25       0.0000251996     5.000    12.365     1.400
   URBANSRC ALL
   SRCGROUP B13      B13_1 B13_2
   SRCGROUP B14      B14_1 B14_2 B14_3 B14_4 B14_5 B14_6
   SRCGROUP B17      B17_1 B17_2
   SRCGROUP B18      B18_1 B18_2 B18_3 B18_4 B18_5 B18_6 B18_7 B18_8 B18_9
   SRCGROUP B18      B18_10 B18_11 B18_12 B18_13 B18_14 B18_15 B18_16 B18_17
   SRCGROUP B18      B18_18 B18_19 B18_20 B18_21 B18_22 B18_23 B18_24 B18_25
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "13697 Ops PM10.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
```

```
ME STARTING
   SURFFILE PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
   PLOTFILE 24 ALL 1ST "13697 OPS PM10.AD\24H_ALL.PLT" 31
   PLOTFILE 24 B13 1ST "13697 OPS PM10.AD\24H_B13.PLT" 32
   PLOTFILE 24 B14 1ST "13697 OPS PM10.AD\24H_B14.PLT" 33
   PLOTFILE 24 B17 1ST "13697 OPS PM10.AD\24H_B17.PLT" 34
   PLOTFILE 24 B18 1ST "13697 OPS PM10.AD\24H_B18.PLT" 35
   SUMMFILE "13697 Ops PM10.sum"
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 ME W186     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***       01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       10:10:16

                      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    35 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: PM_10

**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:     35 Source(s);       5 Source Group(s); and      78 Receptor(s)

              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:     35 VOLUME source(s)
               and:      0 AREA type source(s)
               and:      0 LINE source(s)
               and:      0 RLINE/RLINEXT source(s)
               and:      0 OPENPIT source(s)
               and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
               and:      0 SWPOINT source(s)


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

**The AERMET Input Meteorological Data Version Date:  16216

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

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

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

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

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

**Detailed Error/Message File:   13697 Ops
PM10.err
**File for Summary of Results:   13697 Ops
PM10.sum
```

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

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B13_1	0	0.31499E-03	476101.1	3745262.2	464.0	5.00	44.82	1.40	YES	
B13_2	0	0.31499E-03	476102.0	3745072.0	465.9	5.00	44.82	1.40	YES	
B14_1	0	0.14868E-03	475881.8	3745554.6	466.0	5.00	27.34	1.40	YES	
B14_2	0	0.14868E-03	475881.2	3745437.3	468.2	5.00	27.34	1.40	YES	
B14_3	0	0.14868E-03	475999.6	3745554.0	464.7	5.00	27.34	1.40	YES	
B14_4	0	0.14868E-03	476000.0	3745437.7	465.7	5.00	27.34	1.40	YES	
B14_5	0	0.14868E-03	476071.8	3745548.2	464.0	5.00	27.34	1.40	YES	
B14_6	0	0.14868E-03	476118.4	3745439.0	463.0	5.00	27.34	1.40	YES	
B17_1	0	0.23688E-03	475926.0	3746256.1	465.0	5.00	44.73	1.40	YES	
B17_2	0	0.23688E-03	476070.8	3746258.4	463.0	5.00	44.73	1.40	YES	
B18_1	0	0.25200E-04	475632.5	3746502.6	469.1	5.00	12.37	1.40	YES	
B18_2	0	0.25200E-04	475633.4	3746447.8	469.9	5.00	12.37	1.40	YES	
B18_3	0	0.25200E-04	475638.8	3746403.3	469.7	5.00	12.37	1.40	YES	
B18_4	0	0.25200E-04	475681.1	3746405.0	469.0	5.00	12.37	1.40	YES	
B18_5	0	0.25200E-04	475727.7	3746410.8	467.7	5.00	12.37	1.40	YES	
B18_6	0	0.25200E-04	475775.0	3746409.1	466.4	5.00	12.37	1.40	YES	
B18_7	0	0.25200E-04	475640.0	3746350.6	469.9	5.00	12.37	1.40	YES	
B18_8	0	0.25200E-04	475690.3	3746353.5	469.0	5.00	12.37	1.40	YES	
B18_9	0	0.25200E-04	475774.6	3746355.1	467.2	5.00	12.37	1.40	YES	
B18_10	0	0.25200E-04	475731.0	3746357.2	468.0	5.00	12.37	1.40	YES	
B18_11	0	0.25200E-04	475639.2	3746296.6	469.7	5.00	12.37	1.40	YES	
B18_12	0	0.25200E-04	475689.9	3746300.7	469.0	5.00	12.37	1.40	YES	
B18_13	0	0.25200E-04	475740.5	3746303.6	468.0	5.00	12.37	1.40	YES	
B18_14	0	0.25200E-04	475774.6	3746301.6	467.2	5.00	12.37	1.40	YES	
B18_15	0	0.25200E-04	475637.5	3746242.6	469.8	5.00	12.37	1.40	YES	
B18_16	0	0.25200E-04	475683.6	3746246.3	469.1	5.00	12.37	1.40		

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 YES
 B18_17           0   0.25200E-04  475729.3 3746245.5   468.0     5.00    12.37     1.40
 YES
 B18_18           0   0.25200E-04  475774.2 3746248.0   467.2     5.00    12.37     1.40
 YES
 B18_19           0   0.25200E-04  475635.9 3746187.3   469.3     5.00    12.37     1.40
 YES
 B18_20           0   0.25200E-04  475689.0 3746191.9   469.0     5.00    12.37     1.40
 YES
 B18_21           0   0.25200E-04  475740.1 3746192.3   467.7     5.00    12.37     1.40
 YES
 B18_22           0   0.25200E-04  475775.0 3746192.7   467.1     5.00    12.37     1.40
 YES
 B18_23           0   0.25200E-04  475689.5 3746183.6   469.0     5.00    12.37     1.40
 YES
 B18_24           0   0.25200E-04  475743.5 3746185.2   467.4     5.00    12.37     1.40
 YES
 B18_25           0   0.25200E-04  475771.3 3746185.7   467.1     5.00    12.37     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       10:10:16

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                             *** SOURCE IDs DEFINING SOURCE GROUPS ***

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


  B13        B13_1       , B13_2       ,

  B14        B14_1       , B14_2       , B14_3       , B14_4       , B14_5       , B14_6       ,

  B17        B17_1       , B17_2       ,

  B18        B18_1       , B18_2       , B18_3       , B18_4       , B18_5       , B18_6       ,
  B18_7       , B18_8       ,

             B18_9       , B18_10      , B18_11      , B18_12      , B18_13      , B18_14      ,
             B18_15      , B18_16      ,

             B18_17      , B18_18      , B18_19      , B18_20      , B18_21      , B18_22      ,
             B18_23      , B18_24      ,

             B18_25      ,

  ALL        B13_1       , B13_2       , B14_1       , B14_2       , B14_3       , B14_4       ,
  B14_5       , B14_6       ,

             B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
             B18_5       , B18_6       ,

             B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
             B18_13      , B18_14      ,

             B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
             B18_21      , B18_22      ,

             B18_23      , B18_24      , B18_25      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
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 *** AERMET - VERSION  16216 ***
 ***                                                                            ***       10:10:16

                      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


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

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



             2189641.   B13_1       , B13_2       , B14_1       , B14_2       , B14_3       ,
             B14_4       , B14_5       ,
 B14_6       ,

            B17_1       , B17_2       , B18_1       , B18_2       , B18_3       , B18_4       ,
            B18_5       , B18_6       ,

            B18_7       , B18_8       , B18_9       , B18_10      , B18_11      , B18_12      ,
            B18_13      , B18_14      ,

            B18_15      , B18_16      , B18_17      , B18_18      , B18_19      , B18_20      ,
            B18_21      , B18_22      ,

            B18_23      , B18_24      , B18_25      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                            ***       10:10:16

                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

     ( 476395.7, 3744607.8,     462.5,     462.5,       2.0);         ( 476314.7, 3744669.6,
     463.2,     463.2,       2.0);
     ( 476332.8, 3744655.3,     463.0,     463.0,       2.0);         ( 476366.0, 3744513.7,
     463.2,     463.2,       2.0);
     ( 476245.9, 3744942.5,     463.5,     463.5,       2.0);         ( 476289.5, 3745000.4,
     463.0,     463.0,       2.0);
     ( 476288.5, 3745361.6,     461.2,     461.2,       2.0);         ( 475880.7, 3745148.5,
     468.0,     468.0,       2.0);
     ( 475796.7, 3745058.2,     469.6,     469.6,       2.0);         ( 475750.0, 3745108.9,
     470.0,     470.0,       2.0);
     ( 475798.5, 3745194.1,     469.1,     469.1,       2.0);         ( 475752.4, 3745335.1,
     469.9,     469.9,       2.0);
     ( 475776.9, 3745405.8,     470.0,     470.0,       2.0);         ( 475731.8, 3745293.2,
     470.6,     470.6,       2.0);
     ( 475784.8, 3745574.2,     467.8,     467.8,       2.0);         ( 475709.8, 3745574.8,
     469.3,     469.3,       2.0);
     ( 475708.9, 3745598.8,     469.4,     469.4,       2.0);         ( 475709.4, 3745621.8,
     469.2,     469.2,       2.0);
     ( 475709.4, 3745647.0,     469.0,     469.0,       2.0);         ( 475709.1, 3745668.2,
     469.0,     469.0,       2.0);
     ( 475710.0, 3745693.7,     469.3,     469.3,       2.0);         ( 475709.4, 3745717.0,
     469.4,     469.4,       2.0);
     ( 475709.1, 3745739.8,     469.4,     469.4,       2.0);         ( 475777.8, 3745697.3,
     468.0,     468.0,       2.0);
     ( 475785.3, 3745721.7,     467.8,     467.8,       2.0);         ( 475794.2, 3745802.0,
     467.5,     467.5,       2.0);
     ( 475778.8, 3745842.0,     468.0,     468.0,       2.0);         ( 475800.0, 3745888.8,
```

```
    467.3,     467.3,        2.0);
    ( 475790.0, 3745940.2,     467.0,     467.0,       2.0);         ( 475892.2, 3745936.4,
    465.2,     465.2,        2.0);
    ( 475893.3, 3746111.5,     465.0,     465.0,       2.0);         ( 476130.1, 3746085.0,
    462.0,     462.0,        2.0);
    ( 476129.7, 3745935.0,     462.0,     462.0,       2.0);         ( 475595.7, 3746575.8,
    469.1,     469.1,        2.0);
    ( 475911.0, 3746495.7,     464.0,     464.0,       2.0);         ( 475863.3, 3746556.4,
    464.5,     464.5,        2.0);
    ( 475594.2, 3746890.1,     468.4,     468.4,       2.0);         ( 476146.4, 3746600.5,
    460.7,     460.7,        2.0);
    ( 476082.9, 3746873.9,     459.9,     459.9,       2.0);         ( 475609.1, 3746999.9,
    467.0,     467.0,        2.0);
    ( 475745.2, 3747048.2,     464.2,     464.2,       2.0);         ( 475382.0, 3746161.0,
    476.1,     476.1,        2.0);
    ( 475411.0, 3746003.0,     475.3,     475.3,       2.0);         ( 474409.0, 3746437.3,
    518.9,     524.0,        2.0);
    ( 476290.4, 3746244.9,     460.0,     460.0,       2.0);         ( 476339.3, 3746119.1,
    460.0,     460.0,        2.0);
    ( 476311.4, 3746179.4,     460.0,     460.0,       2.0);         ( 476277.8, 3746288.2,
    460.0,     460.0,        2.0);
    ( 476333.6, 3746432.9,     459.0,     459.0,       2.0);         ( 476384.2, 3745949.3,
    460.0,     460.0,        2.0);
    ( 476360.3, 3745999.4,     460.0,     460.0,       2.0);         ( 476412.9, 3745836.5,
    460.0,     460.0,        2.0);
    ( 476404.8, 3745918.6,     460.0,     460.0,       2.0);         ( 476434.1, 3745820.9,
    460.0,     460.0,        2.0);
    ( 476454.9, 3745720.5,     459.0,     459.0,       2.0);         ( 475797.4, 3744976.8,
    471.0,     471.0,        2.0);
    ( 476060.4, 3744909.2,     466.7,     466.7,       2.0);         ( 475777.3, 3744882.4,
    472.0,     472.0,        2.0);
    ( 475781.9, 3744832.1,     471.9,     471.9,       2.0);         ( 475779.6, 3744791.2,
    472.0,     472.0,        2.0);
    ( 475786.0, 3744729.8,     472.0,     472.0,       2.0);         ( 475774.6, 3744924.7,
    471.8,     471.8,        2.0);
    ( 475782.2, 3744693.9,     472.0,     472.0,       2.0);         ( 475768.2, 3744638.7,
    473.0,     473.0,        2.0);
    ( 475787.2, 3744589.0,     472.1,     472.1,       2.0);         ( 475706.3, 3744502.2,
    473.1,     473.1,        2.0);
    ( 475780.2, 3744427.1,     473.0,     473.0,       2.0);         ( 475764.1, 3744390.6,
    473.5,     473.5,        2.0);
    ( 477060.8, 3744371.8,     455.0,     455.0,       2.0);         ( 476803.5, 3745166.9,
    456.0,     456.0,        2.0);
    ( 477112.7, 3745115.0,     453.6,     453.6,       2.0);         ( 477464.4, 3745086.8,
    450.0,     450.0,        2.0);
    ( 477531.6, 3745005.5,     450.0,     450.0,       2.0);         ( 475715.5, 3746455.6,
    468.1,     468.1,        2.0);
    ( 475792.0, 3746459.3,     466.3,     466.3,       2.0);         ( 475771.3, 3746506.7,
    466.3,     466.3,        2.0);
    ( 475775.2, 3746458.3,     466.7,     466.7,       2.0);         ( 475750.4, 3746454.3,
    467.0,     467.0,        2.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        10:10:16

                        PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                               *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                  (1=YES; 0=NO)

              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1
```

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

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


                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                 ***
                                                           (METERS/SEC)

                                               1.54,   3.09,   5.14,   8.23,  10.80,
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                ***       10:10:16

                      PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

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

   Surface file:
   PERI_V9_ADJU\PERI_v9.SFC                                                         Met
   Version:  16216
   Profile file:
   PERI_V9_ADJU\PERI_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:     3171                  Upper air station no.:     3190
                Name: UNKNOWN                                   Name:
                UNKNOWN
                Year:   2010                                    Year:   2010

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -
 10 01 01   1 01   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 335.    9.1  282.5    5.5
 10 01 01   1 02   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 142.    9.1  280.9    5.5
 10 01 01   1 03   -3.9  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 324.    9.1  280.4    5.5
 10 01 01   1 04   -1.3  0.064 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 294.    9.1  278.8    5.5
 10 01 01   1 05   -3.9  0.088 -9.000 -9.000 -999.   62.     15.0  0.19   0.61   1.00    0.90
 205.    9.1  278.1    5.5
 10 01 01   1 06   -1.3  0.065 -9.000 -9.000 -999.   39.     18.3  0.19   0.61   1.00    0.40
 3.    9.1  277.0    5.5
 10 01 01   1 07   -8.0  0.125 -9.000 -9.000 -999.  106.     21.0  0.19   0.61   1.00    1.30
```

```
 99.    9.1  277.0    5.5
 10 01 01   1 08   -3.3  0.086 -9.000 -9.000 -999.   61.     16.8  0.19   0.61   0.54    0.90
 319.    9.1  278.8    5.5
 10 01 01   1 09   20.1  0.128  0.307  0.010   49.  110.     -9.0  0.19   0.61   0.33    0.90
 239.    9.1  284.2    5.5
 10 01 01   1 10   56.7  0.087  0.560  0.010  107.   62.     -1.0  0.19   0.61   0.26    0.40
 188.    9.1  289.2    5.5
 10 01 01   1 11   81.5  0.323  0.867  0.008  277.  441.    -35.9  0.19   0.61   0.23    2.70
 310.    9.1  290.9    5.5
 10 01 01   1 12   97.1  0.281  1.058  0.008  421.  357.    -19.7  0.19   0.61   0.22    2.20
 357.    9.1  293.1    5.5
 10 01 01   1 13   92.2  0.279  1.117  0.008  523.  354.    -20.4  0.19   0.61   0.22    2.20
 356.    9.1  293.8    5.5
 10 01 01   1 14   77.6  0.275  1.102  0.008  595.  347.    -23.2  0.19   0.61   0.23    2.20
 50.    9.1  294.2    5.5
 10 01 01   1 15   54.9  0.230  1.006  0.008  640.  266.    -19.2  0.19   0.61   0.27    1.80
 53.    9.1  293.8    5.5
 10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61   0.36    1.80
 11.    9.1  292.5    5.5
 10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61   0.64    0.90
 351.    9.1  290.4    5.5
 10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
 186.    9.1  287.5    5.5
 10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61   1.00    0.90
 275.    9.1  285.9    5.5
 10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61   1.00    0.40
 181.    9.1  285.4    5.5
 10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61   1.00    1.30
 318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61   1.00    0.90
 330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61   1.00    1.30
 332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:10:16

                     PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B13       ***
                                    INCLUDING SOURCE(S):     B13_1       , B13_2       ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
        476395.71   3744607.81        0.00392b (10102124)               476314.71
        3744669.61        0.00515b (10102124)
```

476332.85 3744655.27 0.00484b (10102124) 476365.97
3744513.73 0.00324b (10102124)
476245.90 3744942.48 0.01743 (14120124) 476289.52
3745000.38 0.01627b (14111524)
476288.55 3745361.57 0.01480 (15122224) 475880.74
3745148.55 0.01661 (11010224)
475796.73 3745058.23 0.01194 (11010224) 475750.05
3745108.89 0.01010 (11010224)
475798.54 3745194.08 0.01141 (11010224) 475752.37
3745335.13 0.00763 (11121224)
475776.90 3745405.80 0.00825 (11121224) 475731.82
3745293.23 0.00719 (11121224)
475784.75 3745574.23 0.00535m (10121824) 475709.78
3745574.77 0.00507m (10060524)
475708.88 3745598.80 0.00489m (10121824) 475709.42
3745621.76 0.00483m (10121824)
475709.42 3745647.05 0.00473m (10121824) 475709.06
3745668.21 0.00466m (10121824)
475709.96 3745693.68 0.00467m (10121824) 475709.42
3745717.00 0.00459m (10121824)
475709.06 3745739.77 0.00450m (10121824) 475777.75
3745697.27 0.00434m (10121824)
475785.29 3745721.66 0.00430 (14022724) 475794.25
3745802.05 0.00405 (14022724)
475778.85 3745842.00 0.00380 (14022724) 475800.05
3745888.80 0.00360 (14022724)
475789.98 3745940.18 0.00252 (14121224) 475892.19
3745936.40 0.00299b (10121924)
475893.32 3746111.50 0.00226b (10121924) 476130.12
3746085.01 0.00230b (10121924)
476129.71 3745935.03 0.00312b (10121924) 475595.68
3746575.78 0.00209 (15060424)
475911.01 3746495.74 0.00135b (10121924) 475863.30
3746556.38 0.00123b (10121924)
475594.25 3746890.12 0.00121 (15060424) 476146.43
3746600.47 0.00106b (10121924)
476082.93 3746873.86 0.00084b (10121924) 475609.08
3746999.92 0.00069b (10121924)
475745.21 3747048.16 0.00073b (10121924) 475382.02
3746160.96 0.00255m (16123124)
475411.04 3746003.05 0.00284m (16123124) 474409.00
3746437.28 0.00182m (10042324)
476290.36 3746244.91 0.00148 (16112024) 476339.29
3746119.15 0.00186 (16112024)
476311.38 3746179.40 0.00167 (16112024) 476277.82
3746288.18 0.00139 (11111924)
476333.63 3746432.95 0.00114 (16112024) 476384.17
3745949.30 0.00243 (16112024)
476360.32 3745999.45 0.00228 (16112024) 476412.89
3745836.48 0.00276 (16112024)
476404.80 3745918.57 0.00247 (16112024) 476434.06
3745820.87 0.00268 (16112024)
476454.86 3745720.49 0.00314 (15122224) 475797.42
3744976.75 0.01086 (11010224)
476060.39 3744909.25 0.02048 (14010524) 475777.26
3744882.37 0.00763 (14111824)
475781.93 3744832.11 0.00724 (14111824) 475779.60
3744791.20 0.00686 (14122324)
475786.02 3744729.84 0.00631 (14122324) 475774.63
3744924.73 0.00874 (11010224)
475782.23 3744693.90 0.00580 (14122324) 475768.20
3744638.68 0.00502 (14122324)
475787.19 3744589.00 0.00458 (11010124) 475706.26
3744502.22 0.00355 (14122324)
475780.18 3744427.13 0.00369 (11010124) 475764.11
3744390.61 0.00348 (11010124)

```
      477060.85   3744371.76        0.00112b (14111524)                476803.53
      3745166.88        0.00259m (16031424)
      477112.67   3745114.97        0.00142c (14121524)                477464.43
      3745086.80        0.00087c (14121524)
      477531.57   3745005.51        0.00080c (14121524)                475715.48
      3746455.63        0.00184  (15060424)
      475791.98   3746459.29        0.00129b (10121924)                475771.33
      3746506.69        0.00121b (10121924)
      475775.18   3746458.34        0.00127b (10121924)                475750.42
      3746454.29        0.00124b (10121924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        10:10:16

                    PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  B14      ***
                                    INCLUDING SOURCE(S):     B14_1       , B14_2       ,
                                    B14_3       , B14_4       , B14_5       ,
                  B14_6       ,

                                               *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
      476395.71   3744607.81        0.00259b (10102124)                476314.71
      3744669.61        0.00298  (14063024)
      476332.85   3744655.27        0.00287  (14063024)                476365.97
      3744513.73        0.00231  (14063024)
      476245.90   3744942.48        0.00554b (10102124)                476289.52
      3745000.38        0.00611b (10102124)
      476288.55   3745361.57        0.01666b (14111524)                475880.74
      3745148.55        0.01189  (14122324)
      475796.73   3745058.23        0.00890  (11010124)                475750.05
      3745108.89        0.01022  (14122324)
      475798.54   3745194.08        0.01485  (14122324)                475752.37
      3745335.13        0.02174  (11010224)
      475776.90   3745405.80        0.03607c (14120324)                475731.82
      3745293.23        0.01680c (15121824)
      475784.75   3745574.23        0.03957c (14121524)                475709.78
      3745574.77        0.02033c (14121524)
      475708.88   3745598.80        0.01924c (14121524)                475709.42
      3745621.76        0.01846  (11121224)
      475709.42   3745647.05        0.01717  (11121224)                475709.06
      3745668.21        0.01679  (11121224)
      475709.96   3745693.68        0.01602  (11121224)                475709.42
      3745717.00        0.01504  (11121224)
      475709.06   3745739.77        0.01408  (11121224)                475777.75
      3745697.27        0.02057  (11121224)
      475785.29   3745721.66        0.01882  (11121224)                475794.25
      3745802.05        0.01347  (16010524)
      475778.85   3745842.00        0.01148  (10012024)                475800.05
      3745888.80        0.01027  (14121224)
      475789.98   3745940.18        0.00848  (14121224)                475892.19
      3745936.40        0.01035b (10121924)
      475893.32   3746111.50        0.00638b (10121924)                476130.12
      3746085.01        0.00556  (11111924)
      476129.71   3745935.03        0.00865  (11111924)                475595.68
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      3746575.78        0.00366  (14022724)
      475911.01   3746495.74        0.00296b (10121924)                475863.30
      3746556.38        0.00270b (10121924)
      475594.25   3746890.12        0.00218  (15060424)                476146.43
      3746600.47        0.00199  (11111924)
      476082.93   3746873.86        0.00148  (16032824)                475609.08
      3746999.92        0.00152b (10121924)
      475745.21   3747048.16        0.00143b (10121924)                475382.02
      3746160.96        0.00526m (16123124)
      475411.04   3746003.05        0.00658m (10060524)                474409.00
      3746437.28        0.00189m (14061724)
      476290.36   3746244.91        0.00341  (16112024)                476339.29
      3746119.15        0.00377  (16112024)
      476311.38   3746179.40        0.00366  (16112024)                476277.82
      3746288.18        0.00322  (16112024)
      476333.63   3746432.95        0.00245  (16112024)                476384.17
      3745949.30        0.00506  (15122224)
      476360.32   3745999.45        0.00472  (15122224)                476412.89
      3745836.48        0.00590c (14121524)
      476404.80   3745918.57        0.00515  (15122224)                476434.06
      3745820.87        0.00578c (14121524)
      476454.86   3745720.49        0.00651c (14121524)                475797.42
      3744976.75        0.00757  (11010124)
      476060.39   3744909.25        0.00568  (16122724)                475777.26
      3744882.37        0.00662  (11010124)
      475781.93   3744832.11        0.00596  (11010124)                475779.60
      3744791.20        0.00549  (11010124)
      475786.02   3744729.84        0.00486  (11010124)                475774.63
      3744924.73        0.00718  (11010124)
      475782.23   3744693.90        0.00453  (11010124)                475768.20
      3744638.68        0.00424  (11010124)
      475787.19   3744589.00        0.00372  (11010124)                475706.26
      3744502.22        0.00341  (11010124)
      475780.18   3744427.13        0.00297  (11011124)                475764.11
      3744390.61        0.00287  (11011124)
      477060.85   3744371.76        0.00113  (16011824)                476803.53
      3745166.88        0.00271m (16031424)
      477112.67   3745114.97        0.00161m (16031424)                477464.43
      3745086.80        0.00104m (16031424)
      477531.57   3745005.51        0.00095m (16031424)                475715.48
      3746455.63        0.00364  (15060424)
      475791.98   3746459.29        0.00330b (10121924)                475771.33
      3746506.69        0.00302b (10121924)
      475775.18   3746458.34        0.00325b (10121924)                475750.42
      3746454.29        0.00317b (10121924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        10:10:16

                      PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  B17      ***
                                  INCLUDING SOURCE(S):     B17_1       , B17_2       ,

                                            *** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
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476395.71 3744607.81 0.00058 (16122724) 476314.71
3744669.61 0.00062 (16122724)
476332.85 3744655.27 0.00061 (16122724) 476365.97
3744513.73 0.00054 (16122724)
476245.90 3744942.48 0.00084 (16122724) 476289.52
3745000.38 0.00089 (16122724)
476288.55 3745361.57 0.00146 (14063024) 475880.74
3745148.55 0.00118 (14011524)
475796.73 3745058.23 0.00123 (10073024) 475750.05
3745108.89 0.00131 (11011124)
475798.54 3745194.08 0.00143 (11011124) 475752.37
3745335.13 0.00188 (11010124)
475776.90 3745405.80 0.00214 (11010124) 475731.82
3745293.23 0.00182 (11010124)
475784.75 3745574.23 0.00226 (11010124) 475709.78
3745574.77 0.00272 (11010124)
475708.88 3745598.80 0.00283 (11010124) 475709.42
3745621.76 0.00293 (11010124)
475709.42 3745647.05 0.00304 (11010124) 475709.06
3745668.21 0.00316 (11010124)
475709.96 3745693.68 0.00335 (11010124) 475709.42
3745717.00 0.00350 (11010124)
475709.06 3745739.77 0.00372 (14122324) 475777.75
3745697.27 0.00295 (14122324)
475785.29 3745721.66 0.00318 (14122324) 475794.25
3745802.05 0.00415 (14122324)
475778.85 3745842.00 0.00474 (14122324) 475800.05
3745888.80 0.00570 (14122324)
475789.98 3745940.18 0.00680 (14122324) 475892.19
3745936.40 0.00676 (15011124)
475893.32 3746111.50 0.02129c (15121824) 476130.12
3746085.01 0.01634 (14120124)
476129.71 3745935.03 0.00714 (14120124) 475595.68
3746575.78 0.00465m (10060524)
475911.01 3746495.74 0.01229b (10121924) 475863.30
3746556.38 0.00814 (14121224)
475594.25 3746890.12 0.00317 (14022724) 476146.43
3746600.47 0.00624 (14113024)
476082.93 3746873.86 0.00288 (11111924) 475609.08
3746999.92 0.00198 (14022724)
475745.21 3747048.16 0.00193b (10121924) 475382.02
3746160.96 0.00417 (11010224)
475411.04 3746003.05 0.00401c (14120324) 474409.00
3746437.28 0.00107 (14040424)
476290.36 3746244.91 0.01007c (14121524) 476339.29
3746119.15 0.00651b (14111524)
476311.38 3746179.40 0.00830m (16031424) 476277.82
3746288.18 0.01088c (14121524)
476333.63 3746432.95 0.00595c (14121524) 476384.17
3745949.30 0.00400 (16011824)
476360.32 3745999.45 0.00472b (14111524) 476412.89
3745836.48 0.00300 (16011824)
476404.80 3745918.57 0.00357 (16011824) 476434.06
3745820.87 0.00279 (16011824)
476454.86 3745720.49 0.00221 (16011824) 475797.42
3744976.75 0.00127 (10073024)
476060.39 3744909.25 0.00096 (14011524) 475777.26
3744882.37 0.00122 (10073024)
475781.93 3744832.11 0.00117 (10073024) 475779.60
3744791.20 0.00113 (10073024)
475786.02 3744729.84 0.00108 (10073024) 475774.63
3744924.73 0.00124 (10073024)
475782.23 3744693.90 0.00105 (10073024) 475768.20
3744638.68 0.00105 (10073024)
475787.19 3744589.00 0.00097 (10073024) 475706.26
3744502.22 0.00089 (10073024)

475780.18 3744427.13 0.00090 (10073024) 475764.11
3744390.61 0.00089 (10073024)
477060.85 3744371.76 0.00038 (15101624) 476803.53
3745166.88 0.00078c (16050824)
477112.67 3745114.97 0.00057 (16011824) 477464.43
3745086.80 0.00043b (14111524)
477531.57 3745005.51 0.00039b (14111524) 475715.48
3746455.63 0.00821 (11121224)
475791.98 3746459.29 0.01026 (11121224) 475771.33
3746506.69 0.00775 (16010524)
475775.18 3746458.34 0.00959 (11121224) 475750.42
3746454.29 0.00872 (11121224)

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

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: B18 ***
INCLUDING SOURCE(S): B18_1 , B18_2 , B18_3 , B18_4 , B18_5 ,
B18_6 , B18_7 , B18_8 , B18_9 , B18_10 ,
B18_11 , B18_12 , B18_13 ,
B18_14 , B18_15 , B18_16 , B18_17 , B18_18 ,
B18_19 , B18_20 , B18_21 ,
B18_22 , B18_23 , B18_24 , B18_25 ,

*** 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)
- -
476395.71 3744607.81 0.00070 (14063024) 476314.71
3744669.61 0.00077 (14063024)
476332.85 3744655.27 0.00076 (14063024) 476365.97
3744513.73 0.00067 (14063024)
476245.90 3744942.48 0.00100 (14063024) 476289.52
3745000.38 0.00101b (10102124)
476288.55 3745361.57 0.00147c (16050824) 475880.74
3745148.55 0.00140 (16122724)
475796.73 3745058.23 0.00124 (14011524) 475750.05
3745108.89 0.00134 (14011524)
475798.54 3745194.08 0.00146 (14011524) 475752.37
3745335.13 0.00188 (14011524)
475776.90 3745405.80 0.00209 (14011524) 475731.82
3745293.23 0.00194 (14011524)
475784.75 3745574.23 0.00299 (16122724) 475709.78
3745574.77 0.00298 (14011524)
475708.88 3745598.80 0.00315 (14011524) 475709.42
3745621.76 0.00333 (14011524)
475709.42 3745647.05 0.00355 (14011524) 475709.06
3745668.21 0.00375 (14011524)
475709.96 3745693.68 0.00402 (14011524) 475709.42
3745717.00 0.00429 (14011524)
475709.06 3745739.77 0.00459 (14011524) 475777.75
3745697.27 0.00413 (16122724)
475785.29 3745721.66 0.00444 (16122724) 475794.25
3745802.05 0.00572 (16122724)
475778.85 3745842.00 0.00667 (16122724) 475800.05

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      3745888.80        0.00782  (16122724)
      475789.98   3745940.18        0.00994  (16122724)                475892.19
      3745936.40        0.00860b (10102124)
      475893.32   3746111.50        0.01726  (16011824)                476130.12
      3746085.01        0.00536b (14111524)
      476129.71   3745935.03        0.00432  (16011824)                475595.68
      3746575.78        0.02072  (14121224)
      475911.01   3746495.74        0.01316  (15122224)                475863.30
      3746556.38        0.01246  (14121724)
      475594.25   3746890.12        0.00528b (10121924)                476146.43
      3746600.47        0.00417c (14121524)
      476082.93   3746873.86        0.00285  (15122224)                475609.08
      3746999.92        0.00401b (10121924)
      475745.21   3747048.16        0.00311b (10121924)                475382.02
      3746160.96        0.01196  (11010224)
      475411.04   3746003.05        0.00829  (14111824)                474409.00
      3746437.28        0.00169  (14040424)
      476290.36   3746244.91        0.00357m (16031424)                476339.29
      3746119.15        0.00300m (16031424)
      476311.38   3746179.40        0.00331m (16031424)                476277.82
      3746288.18        0.00371m (16031424)
      476333.63   3746432.95        0.00304c (14121524)                476384.17
      3745949.30        0.00240b (14111524)
      476360.32   3745999.45        0.00263m (16031424)                476412.89
      3745836.48        0.00209b (14111524)
      476404.80   3745918.57        0.00226b (14111524)                476434.06
      3745820.87        0.00199b (14111524)
      476454.86   3745720.49        0.00176b (14111524)                475797.42
      3744976.75        0.00129  (14011524)
      476060.39   3744909.25        0.00102  (16122724)                475777.26
      3744882.37        0.00127  (16011124)
      475781.93   3744832.11        0.00117  (16011124)                475779.60
      3744791.20        0.00115  (16011124)
      475786.02   3744729.84        0.00108  (16011124)                475774.63
      3744924.73        0.00129  (16011124)
      475782.23   3744693.90        0.00104  (16011124)                475768.20
      3744638.68        0.00137  (16011124)
      475787.19   3744589.00        0.00105  (16011124)                475706.26
      3744502.22        0.00109  (16011124)
      475780.18   3744427.13        0.00113  (16011124)                475764.11
      3744390.61        0.00111  (16011124)
      477060.85   3744371.76        0.00045c (16050824)                476803.53
      3745166.88        0.00078  (16011824)
      477112.67   3745114.97        0.00059b (14111524)                477464.43
      3745086.80        0.00045b (14111524)
      477531.57   3745005.51        0.00042b (14111524)                475715.48
      3746455.63        0.05747  (11121924)
      475791.98   3746459.29        0.03937  (14113024)                475771.33
      3746506.69        0.02727  (11111924)
      475775.18   3746458.34        0.04524  (11111924)                475750.42
      3746454.29        0.05333  (11111924)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       10:10:16

                    PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL       ***
                               INCLUDING SOURCE(S):     B13_1       , B13_2       ,
                               B14_1       , B14_2       , B14_3       ,
               B14_4       , B14_5       , B14_6       , B17_1       , B17_2       ,
               B18_1       , B18_2       , B18_3       ,
               B18_4       , B18_5       , B18_6       , B18_7       , B18_8       ,
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B18_9 , B18_10 , B18_11 ,
B18_12 , B18_13 , B18_14 , B18_15 , B18_16 ,
B18_17 , B18_18 , . . . ,

*** 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)
476395.71	3744607.81	0.00767b	(10102124)	476314.71	3744669.61	0.00930b	(10102124)
476332.85	3744655.27	0.00889b	(10102124)	476365.97	3744513.73	0.00663	(14063024)
476245.90	3744942.48	0.02452	(14120124)	476289.52	3745000.38	0.02316b	(14111524)
476288.55	3745361.57	0.03311m	(16031424)	475880.74	3745148.55	0.02993c	(14121524)
475796.73	3745058.23	0.01867c	(10122124)	475750.05	3745108.89	0.01809c	(10122124)
475798.54	3745194.08	0.02435c	(14121524)	475752.37	3745335.13	0.02971	(11010224)
475776.90	3745405.80	0.04444c	(14120324)	475731.82	3745293.23	0.02474	(11010224)
475784.75	3745574.23	0.04884c	(14121524)	475709.78	3745574.77	0.02872c	(14121524)
475708.88	3745598.80	0.02767c	(14121524)	475709.42	3745621.76	0.02675c	(14121524)
475709.42	3745647.05	0.02559c	(14121524)	475709.06	3745668.21	0.02499	(11121224)
475709.96	3745693.68	0.02435	(11121224)	475709.42	3745717.00	0.02348	(11121224)
475709.06	3745739.77	0.02266	(11121224)	475777.75	3745697.27	0.02911	(11121224)
475785.29	3745721.66	0.02753	(11121224)	475794.25	3745802.05	0.02345c	(14121524)
475778.85	3745842.00	0.02216c	(14121524)	475800.05	3745888.80	0.02259c	(14121524)
475789.98	3745940.18	0.02370c	(14121524)	475892.19	3745936.40	0.02411c	(14121524)
475893.32	3746111.50	0.04310c	(14121524)	476130.12	3746085.01	0.02664m	(16031424)
476129.71	3745935.03	0.02041m	(16031424)	475595.68	3746575.78	0.02777	(14121224)
475911.01	3746495.74	0.02670c	(14121524)	475863.30	3746556.38	0.02195c	(14121524)
475594.25	3746890.12	0.01030b	(10121924)	476146.43	3746600.47	0.01237c	(14121524)
476082.93	3746873.86	0.00735	(11111924)	475609.08	3746999.92	0.00781b	(10121924)
475745.21	3747048.16	0.00720b	(10121924)	475382.02	3746160.96	0.01893c	(14120324)
475411.04	3746003.05	0.01678m	(10060524)	474409.00	3746437.28	0.00507	(14040424)
476290.36	3746244.91	0.01786c	(14121524)	476339.29	3746119.15	0.01463m	(16031424)
476311.38	3746179.40	0.01631m	(16031424)	476277.82	3746288.18	0.01853c	(14121524)
476333.63	3746432.95	0.01204c	(14121524)	476384.17	3745949.30	0.01310m	(16031424)
476360.32	3745999.45	0.01362m	(16031424)	476412.89	3745836.48	0.01314m	(16031424)
476404.80	3745918.57	0.01274m	(16031424)	476434.06			

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        3745820.87        0.01275m (16031424)
        476454.86   3745720.49        0.01321m (16031424)                475797.42
        3744976.75        0.01692  (11010124)
        476060.39   3744909.25        0.02790  (14010524)                475777.26
        3744882.37        0.01476  (11010124)
        475781.93   3744832.11        0.01375  (11010124)                475779.60
        3744791.20        0.01285  (11010124)
        475786.02   3744729.84        0.01178  (11010124)                475774.63
        3744924.73        0.01554  (11010124)
        475782.23   3744693.90        0.01107  (11010124)                475768.20
        3744638.68        0.01030  (11010124)
        475787.19   3744589.00        0.00951  (11010124)                475706.26
        3744502.22        0.00807  (11010124)
        475780.18   3744427.13        0.00768  (11010124)                475764.11
        3744390.61        0.00737  (11010124)
        477060.85   3744371.76        0.00292  (16011824)                476803.53
        3745166.88        0.00668m (16031424)
        477112.67   3745114.97        0.00410m (16031424)                477464.43
        3745086.80        0.00273m (16031424)
        477531.57   3745005.51        0.00251m (16031424)                475715.48
        3746455.63        0.06776  (11121924)
        475791.98   3746459.29        0.05020c (14121524)                475771.33
        3746506.69        0.03577  (11111924)
        475775.18   3746458.34        0.05539  (14113024)                475750.42
        3746454.29        0.06383c (14121524)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13697 MFBC\13697
Ops\13697 Ops. ***        01/18/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        10:10:16

                      PAGE  13
 *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

B13      HIGH   1ST HIGH VALUE IS       0.02048  ON 14010524: AT (  476060.39,  3744909.25,
466.65,   466.65,    2.00)  DC

B14      HIGH   1ST HIGH VALUE IS       0.03957c ON 14121524: AT (  475784.75,  3745574.23,
467.84,   467.84,    2.00)  DC

B17      HIGH   1ST HIGH VALUE IS       0.02129c ON 15121824: AT (  475893.32,  3746111.50,
465.00,   465.00,    2.00)  DC

B18      HIGH   1ST HIGH VALUE IS       0.05747  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC

ALL      HIGH   1ST HIGH VALUE IS       0.06776  ON 11121924: AT (  475715.48,  3746455.63,
468.10,   468.10,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
```

```
*** 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             4 Warning Message(s)
A Total of          2028 Informational Message(s)

A Total of         43824 Hours Were Processed

A Total of           978 Calm Hours Identified

A Total of          1050 Missing Hours Identified (  2.40 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186     139       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     139       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:     14010101
MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:   2 year gap

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

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