

# Appendix A

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## Air Quality and Greenhouse Gas Emissions Analysis Technical Report



**Air Quality and Greenhouse Gas Emissions  
Analysis Technical Report  
Truck Facility Specific Plan Project  
KL Fenix Corporation  
Carson, California**

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# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

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### ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
°C	degrees Celsius
°F	degrees Fahrenheit
µg/m <sup>3</sup>	micrograms per cubic meter
AB	Assembly Bill
amsl	above mean sea level
AQMP	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California's Green Building Standards
CalRecycle	California Department of Resources Recycling and Recovery
CAP	climate action plan
CARB	California Air Resources Board
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CH <sub>4</sub>	methane
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
CPUC	California Public Utilities Commission
CY	cubic yard
DPM	diesel particulate matter
EO	Executive Order
EPA	U.S. Environmental Protection Agency
GHG	greenhouse gas
GWP	global warming potential
HAP	hazardous air pollutant
HFC	hydrofluorocarbon
HRA	health risk assessment
LCFS	Low Carbon Fuel Standard
LOS	level of service
LST	localized significance thresholds
mph	miles per hour
MPO	metropolitan planning organization
MMT	million metric ton
MT	metric ton
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NF <sub>3</sub>	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration

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Acronym/Abbreviation	Definition
NO	nitric oxide
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	oxides of nitrogen
O <sub>3</sub>	ozone
PFC	perfluorocarbon
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM <sub>2.5</sub>	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
ppb	parts per billion
ppm	parts per million
ROG	Reactive Organic Gas
RPS	Renewables Portfolio Standard
RTP	regional transportation plan
SB	Senate Bill
SBCCOG	South Bay Cities Council of Governments
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCS	sustainable communities strategy
SF <sub>6</sub>	sulfur hexafluoride
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
SRA	source-receptor area
TAC	toxic air contaminant
TIS	traffic impact study
VOC	volatile organic compound
ZNE	zero net energy
ZEV	Zero-Emissions Vehicle

# **Air Quality and Greenhouse Gas Emissions Analysis**

## **Technical Report for the Truck Facility Specific Plan Project**

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### **EXECUTIVE SUMMARY**

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Truck Facility Specific Plan Project (project) located within the City of Carson (City). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.). Construction and operational criteria air pollutant and GHG emissions were estimated using the California Emissions Estimator Model Version 2016.3.2 (CalEEMod) and California Air Resources Board (CARB) Emission Factors version 2017 (EMFAC2017).

#### **Project Overview**

The project site is located in the City of Carson (City or Carson), in the southwestern portion of Los Angeles County. The proposed site is an approximate 14.3 acre parcel of land previously operated as a brown landfill between November 1956 and October 1959. After the landfill operation closed in 1959, this site has remained undeveloped.

The project would consist of the construction and operation of a truck facility for transferring goods or breaking down and assembling tractor-trailer transportation (as defined by the City of Carson Municipal Code Section 9191.698). The truck facility on this site will mainly contribute to mobilize goods that are imported, and also for goods that are made in the United States, to be exported through the local Ports of Los Angeles and Long Beach. The primary route for the trucks transporting the imported and exported goods would be on the on and off ramp located across Figueroa Street onto the 110 Interstate Freeway, located directly on the west side of the property. A very limited number of trucks using this truck facility would use the City of Carson's streets as part of their route.

The project would include a warehouse/office building that will face the Main Street frontage. The warehouse space will be approximately 39,000 square feet, along with an attached two story office space on one side that will be about 14,000 square feet. The total building area will be approximately 53,000 square feet with a height of approximately 42 feet. Extra care will be taken in the architectural design of the building facades in order to give the new building an aesthetic look from the Main Street side and the surround area.

The proposed project would include 102 parking spaces for the proposed warehouse/office use. It would also include 475 spaces for cargo containers, along with 6 loading docks, and designated exterior and interior areas for the unloading and loading of goods between containers. Storage for stacked containers is not a part of the project.

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The project site is located within the South Coast Air Basin and is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). Construction and operational criteria air pollutant and GHG emissions were estimated using EMFAC2017 and CalEEMod, consistent with the SCAQMD guidance.

### **Air Quality**

The air quality impact analysis evaluated the potential for adverse impacts to air quality due to construction and operational emissions resulting from the project. Impacts were evaluated for their significance based on the SCAQMD mass daily criteria air pollutant thresholds of significance (SCAQMD 1993, as revised in March 2015). Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants include ozone (O<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM<sub>10</sub>), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM<sub>2.5</sub>), and lead. Pollutants that are evaluated include volatile organic compounds (VOCs) (also referred to as reactive organic gases), oxides of nitrogen (NO<sub>x</sub>), CO, sulfur oxides (SO<sub>x</sub>), PM<sub>10</sub>, and PM<sub>2.5</sub>. VOCs and NO<sub>x</sub> are important because they are precursors to O<sub>3</sub>.

### ***Air Quality Plan Consistency***

SCAQMD has established two criteria to evaluate the potential for the proposed project to conflict with the applicable air quality plan, which is the SCAQMD 2016 Air Quality Management Plan (AQMP) (SCAQMD 1993, 2017). Regarding Consistency Criterion No. 1, the project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations as supported in the analysis presented in this technical report, which demonstrates that estimated project-generated construction and operational emissions would not exceed the SCAQMD mass daily emissions thresholds.

Regarding Consistency Criterion No. 2, the site is currently designated “light Industrial.” The project proponent is requesting a General Plan Amendment to establish a “Heavy Manufacturing” land use designation for the KL Fenix Specific Plan area to replace the existing “Light Industrial” General Plan designation. The Specific Plan provides development standards designed to mitigate conditions at this existing “brownfield” site that is currently not usable into a productive parcel that can be incorporated into the City’s business community. The Specific Plan’s development standards specifically promote a modern “Truck Facility” to take advantage of the site unique location of proximity to major Interstate Freeways and other major transportation corridors.

## **Air Quality and Greenhouse Gas Emissions Analysis**

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The project would not stimulate population growth or population concentration above what is assumed in local and regional land use plans, and does not include either residential uses or the extension of roads or other infrastructure. As such, the project would not either directly or indirectly induce growth in the project region. In addition, the project would not conflict with an applicable land use plan, policy, or regulation of an agency with jurisdiction over the project. As such, the proposed project would not exceed the assumptions in the 2016 AQMP or increments based on the year of project buildout and phase because implementation of the project would not exceed the demographic growth forecasts in the Southern California Association of Governments (SCAG) 2016 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS), which is based on general plans for cities and counties in the SCAB. Therefore, the project would also be consistent with the SCAQMD 2016 AQMP, which based future emission estimates on the SCAG 2016 RTP/SCS.

Based on these considerations, impacts related to the project's potential to conflict with or obstruct implementation of the applicable air quality plan would be less than significant.

#### ***Construction Criteria Air Pollutant Emissions***

Construction of the project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Estimated maximum daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, or PM<sub>2.5</sub> during construction.

#### ***Operational Criteria Air Pollutant Emissions***

Operational year 2021 was assumed consistent with the traffic impact study prepared for the project (Dudek 2019). Operation of the project would generate operational criteria air pollutants from mobile sources (vehicles), area sources (consumer product use, architectural coatings, and landscape maintenance equipment), and energy (natural gas). Estimated maximum daily operational emissions would not exceed the SCAQMD operational significance thresholds for VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, or PM<sub>2.5</sub>.

#### ***Exposure of Sensitive Receptors***

SCAQMD recommends the evaluation of localized NO<sub>2</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> impacts as a result of construction activities to sensitive receptors in the immediate vicinity of a project site. As such, a localized emissions impact analysis has been prepared that compares project-generated emissions during construction to SCAQMD localized significance thresholds (LSTs) to determine potential impacts to nearby sensitive receptors during construction of the project. The impacts were

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analyzed using methods consistent with those in SCAQMD's Final LST Methodology (2009). In summary, construction activities would not generate emissions in excess of the SCAQMD site-specific LSTs; therefore, site-specific construction impacts during construction of the project would be less than significant.

Operation of the project would not expose sensitive receptors to localized high concentrations of CO or contribute traffic volumes to intersections that would cause a CO hotspot. The proposed project would not generate traffic that would contribute to potential adverse traffic impacts that may result in the formation of CO hotspots. In addition, due to continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCAB is steadily decreasing. Based on these considerations, the proposed project potential CO hotspot impacts would be less than significant.

Impacts related to cancer risk and chronic hazard from diesel particulate matter, which is a toxic air contaminant (TAC), was assessed for construction and operation. Cancer risk during project construction would exceed the SCAQMD's health risk thresholds; however, mitigation requiring equipment over 75 horsepower to meet Tier 4 engine regulatory requirements would reduce construction cancer risk below SCAQMD thresholds. Construction chronic hazard risk would be below the SCAQMD threshold without mitigation. Therefore, construction health risk impacts would be less than significant with mitigation. Long-term operational sources of TACs, which include heavy-duty trucks traveling on and off site and truck idling onsite, would not exceed the SCAQMD's health risk thresholds during operational activities; therefore, operation health risk impacts would be less than significant.

#### ***Other Emissions (Odors)***

Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application, which would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The proposed project entails operation of a truck yard, which has not been identified by SCAQMD as a land use typically associated with odor complaints. Therefore, the proposed project operations would result in an odor impact that is less than significant.

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### ***Cumulative Impacts***

The potential for the project to result in a cumulatively considerable impact, per the SCAQMD guidance and thresholds, is based on the project's potential to exceed the project-specific daily thresholds. As discussed previously, maximum construction and operational emissions would not exceed the SCAQMD significance thresholds for VOCs, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, or PM<sub>2.5</sub>. Therefore, the project would not result in a cumulatively considerable increase in criteria air pollutants.

### **Greenhouse Gas Emissions**

Global climate change is primarily considered a cumulative impact, but must also be evaluated on a project-level under CEQA. A project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHG emissions. GHGs are gases that absorb infrared radiation in the atmosphere. Principal GHGs regulated under state and federal law and regulations include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O). GHG emissions are measured in metric tons of CO<sub>2</sub> equivalent (MT CO<sub>2</sub>e), which account for weighted global warming potential factors for CH<sub>4</sub> and N<sub>2</sub>O.

### ***Project-Generated Construction and Operational Greenhouse Gas Emissions***

The threshold applied to assess the potential for the project to generate GHG emissions either directly or indirectly that may have a significant impact on the environment was the SCAQMD threshold of 1,400 MT CO<sub>2</sub>e per year. Pursuant to SCAQMD recommendation, construction emissions were amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies (SCAQMD 2008).

Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. Total project-generated GHG emissions during construction were estimated to be 309 MT CO<sub>2</sub>e over the construction period. Estimated project-generated construction emissions amortized over 30 years would be approximately 10.31 MT CO<sub>2</sub>e per year.

The project would generate operational GHG emissions from area sources (landscape maintenance), energy sources (natural gas and electricity), mobile sources, solid waste, and water supply and wastewater treatment. Estimated annual project-generated operational GHG emissions and amortized construction emissions would be approximately 1,115 MT CO<sub>2</sub>e per year. As such, the annual operational GHG emissions with amortized construction emissions would not exceed the SCAQMD threshold of 1,400 MT CO<sub>2</sub>e per year. Therefore, the project-generated GHG emissions would result in a less than significant impact.



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### ***Consistency with Applicable Greenhouse Gas Reduction Plans***

In 2017, the City of Carson, in cooperation with the South Bay Cities Council of Governments (SBCCOG), developed a Climate Action Plan (CAP). However, this CAP is not a Qualified GHG Emissions Reduction Plan under CEQA per the requirements outlined in CEQA Guidelines Section 15183.5(D); therefore, no CEQA document can tier from the City CAP. As such, at this time, no mandatory GHG plans, policies, or regulations or finalized agency guidelines would apply to implementation of the project. Nonetheless, development of the project site would be consistent with the City CAP and the SCAG 2016 RTP/SCS. More specifically, the KL Fenix Truck Facility Specific Plan project shall be based on principles of smart growth and environmental sustainability. The new buildings shall be designed and constructed to incorporate environmentally sustainable design features equivalent to a minimum Silver certification under the U.S. Green Building Council's LEED-H® or LEED-NC® Rating System (January 1, 2011). Such LEED® features shall include energy-efficient buildings, a pedestrian- and bicycle-friendly site design, and water conservation measures. LEED standards shall be incorporated in order to reduce energy and water usage, and thus reduce associated greenhouse gas emissions. The KL Fenix Truck Facility Specific Plan Project shall incorporate an environmentally sustainable design using green building technologies utilizing more resource-efficient modes of construction adhering to the principles of energy efficiency, water conservation, environmentally preferable building materials, and overall waste reduction. Sustainability features of the Project shall include the following:

1. Water Conservation - (Sustainable Sites Credit / Landscaping) Water conservation features shall include a range of techniques that shall enhance site sustainability. Drought-tolerant plants and indigenous species shall be utilized as part of the proposed landscaping program. Storm water shall be collected and cleansed through a first flush filtration system. Storm water filtration planters shall collect roof and other surface water where appropriate. The following list summarizes features that shall be implemented as part of the project to achieve, at minimum, LEED® Silver certification.
  - High-efficiency toilets (maximum 1.28 gallons per flush), including dual flush water closets, and no-flush or waterless urinals in all non-residential restrooms as appropriate.
  - Non-residential restroom faucets with a maximum flow rate of 0.5 gallon per minute and non-residential kitchen faucets (except restaurant kitchens) with a maximum flow rate of 1.5 gallons per minute.
  - Non-residential restroom faucets of a self-closing design (i.e., that shall automatically turn off when not in use).



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- Installation of tank less and on-demand water heaters in commercial kitchens and restrooms, when appropriate.
- Individual metering and billing for water use of all residential uses and exploration of such metering for commercial spaces.
- Installation of a leak detection system for any swimming pool, Jacuzzi, or other comparable spa equipment introduced on-site. Use of a demand (tank less or instantaneous) water heater system sufficient to serve the anticipated needs of the dwellings and/or solar-thermal water heaters, as appropriate.
- Installation of high-efficiency Energy Star-rated dishwashers in all residential units, and within kitchen/food preparation areas minimum per City ordinance requirements.
- Weather-based irrigation controller with rain shutoff, matched precipitation (flow) rates for sprinkler heads, and rotating sprinkler nozzles or comparable technology such as drip/micro spray/subsurface irrigation and moisture sensors where appropriate.
- Minimum irrigation system distribution uniformity of 75 percent.
- Use of proper hydro-zoning, turf minimization, zoned irrigation and use of native/drought-tolerant plant materials.
- Use of landscape contouring to minimize precipitation runoff.
- Use of LID flow-through planters within common site areas that are not located above subterranean parking.

#### **2. Energy Conservation and Efficiency**

- Energy Star-labeled products and appliances shall be installed where appropriate.
- Meeting of Title 24, Part 6, California Energy Code baseline standard requirements for energy efficiency, based on the 2013 Energy Efficiency Standards requirements. Examples of design methods and technologies that shall be implemented may include, but not be limited to, high performance glazing on windows, appropriately-oriented shading devices, high efficiency boilers (if single metered), instantaneous water heaters (if individual meters), and enhanced insulation to minimize solar and thermal gain.
- Application of energy-saving technologies and components to reduce the project's electrical usage-profile. Examples of these components include compact fluorescent light bulbs (CFL), energy saving lighting schemes such as occupancy-sensing controls (where applicable), use of light emitting diode (LED) lighting or other energy-efficient lighting technologies where appropriate, and energy-efficient heating and cooling equipment.

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- Incorporation of passive energy efficiency strategies, such as roof overhangs, porches, and inner courtyards.
- During operations in order to achieve maximum efficiency, while maintaining safety for residents and visitors, exterior lighting elements will be controlled by light sensors and/or timeclocks to avoid over lighting as appropriate.
- Commissioning of building energy systems to verify that the Project's building energy systems are installed, calibrated, and performing to the Owner's Project requirements.

### **3. Transportation**

- Preparation and implementation of a Transportation Demand Management (TDM) Plan that shall promote the use of alternative transportation, such as mass-transit, ride-sharing, bicycling, and walking to reduce project trips and/or vehicle miles traveled.
- Provision of on-site bicycle storage for visitors and employees.
- Accessibility to multiple public transportation lines adjacent to the Project Site.
- Allocation of preferred parking for alternative-fuel vehicles, low-emitting, and fuel-efficient and ride-sharing vehicles.
- As required, provision of electric vehicle charging stations (i.e., provide electric vehicle supply wiring equal to 5 percent of the total number of parking spaces).

The construction and operation of the proposed project will not interfere with the City's CAP strategies or the SCAG 2016 RTP/SCS as described above. As such, the project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs and no mitigation is required. This impact would be less than significant.

# **Air Quality and Greenhouse Gas Emissions Analysis**

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## **1 INTRODUCTION**

### **1.1 Report Purpose and Scope**

The purpose of this technical report is to assess the potential air quality and greenhouse gas (GHG) emissions impacts associated with implementation of the proposed Truck Facility Specific Plan Project (project). This assessment uses the significance thresholds in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.), and is based on the emissions-based significance thresholds recommended by the South Coast Air Quality Management District (SCAQMD) and other applicable thresholds of significance.

This introductory section provides a description of the project and the project location. Chapter 2, Air Quality, describes the air quality–related environmental setting, regulatory setting, existing air quality conditions, and thresholds of significance and analysis methodology, and presents an air quality impact analysis per Appendix G of the CEQA Guidelines. Chapter 3, Greenhouse Gas Emissions, follows the same format as Chapter 2 and similarly describes the GHG emissions–related environmental setting, regulatory setting, existing climate changes conditions, and thresholds of significance and analysis methodology, and presents a GHG emissions impact analysis per Appendix G of the CEQA Guidelines. Chapter 4, References Cited, includes a list of the sources cited in this technical report, and Chapter 5, List of Preparers, includes a list of those who prepared this technical report.

### **1.2 Regional and Local Setting**

The approximately 14.5-acre proposed project site previously operated as a brown landfill between November 1956 and October 1959. After the landfill operation closed in 1959, this site has remained undeveloped. The proposed site is located within the City of Carson (City) in southwestern Los Angeles County, approximately 15 miles southwest of downtown Los Angeles. The property is directly east across Figueroa Boulevard from Interstate 110.

The project is planned to occur within an approximate 14.5-acre parcel previously operated as a brown landfill. Major circulation corridors surrounding the project in less than a 1-mile radius include Interstate 110, Figueroa Street and South Main Street adjacent to the project site running north and south and nearby Del Ama Boulevard and West Torrance Boulevard traversing in the east and west directions. Adjacent land uses include commercial to the north, west and south, and residential to the east. The primary route for the trucks transporting the imported and exported goods would be on the on and off ramp located across Figueroa Street onto the 110 Interstate Freeway, located directly on the west side of the property. A very limited number of trucks using this truck facility would use the City of Carson’s streets as part of their route.

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The Specific Plan is a regulatory tool to guide development in a local area consistent with the City's General Plan. While the General Plan provides the primary guide for growth and development citywide, the Specific Plan customizes the planning process to enhance and promote the unique characteristics of a special area. To ensure consistency between the KL Fenix Specific Plan and to the City of Carson General Plan, the General Plan will be amended concurrent with adoption of this Plan for the proposed project. The corresponding General Plan amendment establishes a "Truck Facility"<sup>1</sup> Land Use Designation for the KL Fenix Specific Plan area to replace the Site's existing "Light Industrial" General Plan designations.

The project site is located within the South Coast Air Basin (SCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties.

### **1.3 Project Description**

The project site is located in the City of Carson (City or Carson), in the southwestern portion of Los Angeles County. The proposed site is an approximate 14.5 acre parcel of land previously operated as a brown landfill between November 1956 and October 1959. After the landfill operation closed in 1959, this site has remained undeveloped. The project would consist of the construction and operation of a truck facility for transferring goods or breaking down and assembling tractor-trailer transportation (as defined by the City's Municipal Code Section 9191.698). The truck facility on this site will mainly contribute to mobilize goods that are imported, and also for goods that are made in the United States, to be exported through the local Ports of Los Angeles and Long Beach. The primary route for the trucks transporting the imported and exported goods would be on the on and off ramp located across Figueroa Street onto the 110 Interstate Freeway, located directly on the west side of the property. A very limited number of trucks using this truck facility would use the City's streets as part of their route.

The project would include a warehouse/office building that will face the Main Street frontage. The warehouse space will be approximately 39,000 square feet, along with an attached two story office space on one side that will be about 14,000 square feet. The total building area will be approximately 53,000 square feet with a height of approximately 42 feet. Extra care will be taken in the architectural design of the building facades in order to give the new building an aesthetic look from the Main Street side and the surround area.

The proposed project would include 102 parking spaces for the proposed warehouse/office use. It would also include 475 spaces for cargo containers, along with 6 loading docks, and designated exterior and interior areas for the unloading and loading of goods between containers. Storage for stacked containers is not a part of the project.

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## **2 AIR QUALITY**

### **2.1 Environmental Setting**

As stated previously, the project site is located within the SCAB. The SCAB is a 6,745-square-mile area bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east.

#### **2.1.1 Meteorological and Topographical Conditions**

The primary factors that determine air quality are the locations of air pollutant sources and the amount of pollutants emitted. Meteorological and topographical conditions, however, are also important. Factors such as wind speed and direction, air temperature gradients and sunlight, and precipitation and humidity interact with physical landscape features to determine the movement and dispersal of air pollutants. The SCAB's air pollution problems are a consequence of the combination of emissions from the nation's second largest urban area, meteorological conditions adverse to the dispersion of those emissions, and mountainous terrain surrounding the SCAB that traps pollutants as they are pushed inland with the sea breeze (SCAQMD 2017). Meteorological and topographical factors that affect air quality in the SCAB are described below.<sup>1</sup>

#### **Climate**

The SCAB is characterized as having a Mediterranean climate (typified as semiarid with mild winters, warm summers, and moderate rainfall). The general region lies in the semi-permanent high-pressure zone of the eastern Pacific; as a result, the climate is mild and tempered by cool sea breezes. The usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. The extent and severity of the air pollution problem in the SCAB is a function of the area's natural physical characteristics (e.g., weather and topography) and of manufactured influences (e.g., development patterns and lifestyle). Moderate temperatures, comfortable humidity, and limited precipitation characterize the climate in the SCAB. The average annual temperature varies little throughout the SCAB, averaging 75°F. However, with a less-pronounced oceanic influence, the eastern inland portions of the SCAB show greater variability in annual minimum and maximum temperatures. All portions of the SCAB have recorded temperatures over 100°F in recent years. Although the SCAB has a semiarid climate, the air near the surface is moist because of the presence of a shallow marine layer. Except for infrequent periods when dry air is brought into the SCAB by offshore winds, the ocean effect is dominant. Periods with heavy fog are frequent, and low stratus clouds, occasionally referred to as

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<sup>1</sup> The discussion of meteorological and topographical conditions of the SCAB is based on information provided in the *Final 2016 Air Quality Management Plan* (SCAQMD 2017).

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“high fog,” are a characteristic climate feature. Annual average relative humidity is 70% at the coast and 57% in the eastern part of the SCAB. Precipitation in the SCAB is typically 9 to 14 inches annually and is rarely in the form of snow or hail because of typically warm weather. The frequency and amount of rainfall is greater in the coastal areas of the SCAB.

The average low in the City is reported at 44.2°F, in January, and the average high is 78.6°F, in August (City of Torrance 2009a). In contrast to a very steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all rain falls from November to April. Summer rainfall is normally restricted to widely scattered thundershowers near the coast, with slightly heavier shower activity in the east and over the mountains. Rainfall averages around 13.58 inches per year in the City (City of Torrance 2009a).

#### **Sunlight**

The presence and intensity of sunlight are necessary prerequisites for the formation of photochemical smog. Under the influence of the ultraviolet radiation of sunlight, certain “primary” pollutants (mainly reactive hydrocarbons and oxides of nitrogen ( $\text{NO}_x$ )<sup>2</sup>) react to form “secondary” pollutants (primarily oxidants). Since this process is time dependent, secondary pollutants can be formed many miles downwind of the emission sources. Southern California also has abundant sunshine, which drives the photochemical reactions that form pollutants such as ozone ( $\text{O}_3$ ) and a substantial portion of fine particulate matter ( $\text{PM}_{2.5}$ ; particulate matter with an aerodynamic diameter less than or equal to 2.5 microns). In the SCAB, high concentrations of  $\text{O}_3$  are normally recorded during the late spring, summer, and early autumn months, when more intense sunlight drives enhanced photochemical reactions. Due to the prevailing daytime winds and time-delayed nature of photochemical smog, oxidant concentrations are highest in the inland areas of Southern California.

#### **Temperature Inversions**

Under ideal meteorological conditions and irrespective of topography, pollutants emitted into the air mix and disperse into the upper atmosphere. However, the Southern California region frequently experiences temperature inversions in which pollutants are trapped and accumulate close to the ground. The inversion, a layer of warm, dry air overlaying cool, moist marine air, is a normal condition in coastal Southern California. The cool, damp, and hazy sea air capped by coastal clouds is heavier than the warm, clear air, which acts as a lid through which the cooler marine layer cannot rise. The height of the inversion is important in determining pollutant concentration. When the inversion is approximately 2,500 feet above mean sea level (amsl), the sea breezes carry the pollutants inland to escape over the mountain slopes or through the passes.

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<sup>2</sup>  $\text{NO}_x$  is a general term pertaining to compounds of nitric oxide (NO), nitrogen dioxide ( $\text{NO}_2$ ), and other oxides of nitrogen.



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At a height of 1,200 feet amsl, the terrain prevents the pollutants from entering the upper atmosphere, resulting in the pollutants settling in the foothill communities. Below 1,200 feet amsl, the inversion puts a tight lid on pollutants, concentrating them in a shallow layer over the entire coastal basin. Usually, inversions are lower before sunrise than during the daylight hours.

Mixing heights for inversions are lower in the summer and inversions are more persistent, being partly responsible for the high levels of O<sub>3</sub> observed during summer months in the SCAB. Smog in Southern California is generally the result of these temperature inversions combining with coastal day winds and local mountains to contain the pollutants for long periods, allowing them to form secondary pollutants by reacting in the presence of sunlight. The SCAB has a limited ability to disperse these pollutants due to typically low wind speeds and the surrounding mountain ranges.

As with other cities within the SCAB, the City is susceptible to air inversions, which trap a layer of stagnant air near the ground where pollutants are further concentrated. These inversions produce haziness, which is caused by moisture, suspended dust, and a variety of chemical aerosols emitted by trucks, automobiles, furnaces, and other sources. Elevated coarse particulate matter (PM<sub>10</sub>; particulate matter with an aerodynamic diameter less than or equal to 10 microns) and PM<sub>2.5</sub> concentrations can occur in the SCAB throughout the year, but occur most frequently in fall and winter. Although there are some changes in emissions by day of the week and season, the observed variations in pollutant concentrations are primarily the result of seasonal differences in weather conditions.

### **2.1.2 Pollutants and Effects**

#### **2.1.2.1 Criteria Air Pollutants**

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. The federal and state standards have been set, with an adequate margin of safety, at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons from illness or discomfort. Pollutants of concern include O<sub>3</sub>, nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), PM<sub>10</sub>, PM<sub>2.5</sub>, and lead. These pollutants, as well as toxic air contaminants (TACs), are discussed in the following paragraphs.<sup>3</sup> In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

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<sup>3</sup> The descriptions of the criteria air pollutants and associated health effects are based on the U.S. Environmental Protection Agency's Criteria Air Pollutants (EPA 2016a) and the California Air Resources Board's Glossary of Air Pollutant Terms (CARB 2016a).

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**Ozone.** O<sub>3</sub> is a strong-smelling, pale blue, reactive, toxic chemical gas consisting of three oxygen atoms. It is a secondary pollutant formed in the atmosphere by a photochemical process involving the sun's energy and O<sub>3</sub> precursors. These precursors are mainly NO<sub>x</sub> and volatile organic compounds (VOCs). The maximum effects of precursor emissions on O<sub>3</sub> concentrations usually occur several hours after they are emitted and many miles from the source. Meteorology and terrain play major roles in O<sub>3</sub> formation, and ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O<sub>3</sub> exists in the upper atmosphere O<sub>3</sub> layer (stratospheric ozone) and at the Earth's surface in the troposphere (ozone).<sup>4</sup> The O<sub>3</sub> that the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) regulate as a criteria air pollutant is produced close to the ground level, where people live, exercise, and breathe. Ground-level O<sub>3</sub> is a harmful air pollutant that causes numerous adverse health effects and is thus considered "bad" O<sub>3</sub>. Stratospheric, or "good," O<sub>3</sub> occurs naturally in the upper atmosphere, where it reduces the amount of ultraviolet light (i.e., solar radiation) entering the Earth's atmosphere. Without the protection of the beneficial stratospheric O<sub>3</sub> layer, plant and animal life would be seriously harmed.

O<sub>3</sub> in the troposphere causes numerous adverse health effects; short-term exposures (lasting for a few hours) to O<sub>3</sub> at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes (EPA 2013). These health problems are particularly acute in sensitive receptors such as the sick, the elderly, and young children.

**Nitrogen Dioxide.** NO<sub>2</sub> is a brownish, highly reactive gas that is present in all urban atmospheres. The major mechanism for the formation of NO<sub>2</sub> in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO), which is a colorless, odorless gas. NO<sub>x</sub> plays a major role, together with VOCs, in the atmospheric reactions that produce O<sub>3</sub>. NO<sub>x</sub> is formed from fuel combustion under high temperature or pressure. In addition, NO<sub>x</sub> is an important precursor to acid rain and may affect both terrestrial and aquatic ecosystems. The two major emissions sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

NO<sub>2</sub> can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections (EPA 2016b).

**Carbon Monoxide.** CO is a colorless, odorless gas formed by the incomplete combustion of hydrocarbon, or fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, such as the project location, automobile exhaust accounts for the majority of CO emissions. CO is a nonreactive air pollutant that

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<sup>4</sup> The troposphere is the layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about 5 miles at the poles and about 10 miles at the equator.



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dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions—primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, which is a typical situation at dusk in urban areas from November to February. The highest levels of CO typically occur during the colder months of the year, when inversion conditions are more frequent.

In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions.

**Sulfur Dioxide.** SO<sub>2</sub> is a colorless, pungent gas formed primarily from incomplete combustion of sulfur-containing fossil fuels. The main sources of SO<sub>2</sub> are coal and oil used in power plants and industries; as such, the highest levels of SO<sub>2</sub> are generally found near large industrial complexes. In recent years, SO<sub>2</sub> concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO<sub>2</sub> and limits on the sulfur content of fuels.

SO<sub>2</sub> is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. When combined with particulate matter, SO<sub>2</sub> can injure lung tissue and reduce visibility and the level of sunlight. SO<sub>2</sub> can also yellow plant leaves and erode iron and steel.

**Particulate Matter.** Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. PM<sub>2.5</sub> and PM<sub>10</sub> represent fractions of particulate matter. Coarse particulate matter (PM<sub>10</sub>) consists of particulate matter that is 10 microns or less in diameter and is about 1/7 the thickness of a human hair. Major sources of PM<sub>10</sub> include crushing or grinding operations; dust stirred up by vehicles traveling on roads; wood-burning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands; and atmospheric chemical and photochemical reactions. Fine particulate matter (PM<sub>2.5</sub>) consists of particulate matter that is 2.5 microns or less in diameter and is roughly 1/28 the diameter of a human hair. PM<sub>2.5</sub> results from fuel combustion (e.g., from motor vehicles and power generation and industrial facilities), residential fireplaces, and woodstoves. In addition, PM<sub>2.5</sub> can be formed in the atmosphere from gases such as sulfur oxides (SO<sub>x</sub>), NO<sub>x</sub>, and VOCs.

PM<sub>2.5</sub> and PM<sub>10</sub> pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM<sub>2.5</sub>

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and PM<sub>10</sub> can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances such as lead, sulfates, and nitrates can cause lung damage directly or be absorbed into the bloodstream, causing damage elsewhere in the body. Additionally, these substances can transport adsorbed gases such as chlorides or ammonium into the lungs, also causing injury. Whereas PM<sub>10</sub> tends to collect in the upper portion of the respiratory system, PM<sub>2.5</sub> is so tiny that it can penetrate deeper into the lungs and damage lung tissue. Suspended particulates also damage and discolor surfaces on which they settle and produce haze and reduce regional visibility.

People with influenza, people with chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death as a result of breathing particulate matter. People with bronchitis can expect aggravated symptoms from breathing in particulate matter. Children may experience a decline in lung function due to breathing in PM<sub>10</sub> and PM<sub>2.5</sub> (EPA 2009).

**Lead.** Lead in the atmosphere occurs as particulate matter. Sources of lead include leaded gasoline; the manufacturing of batteries, paints, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phaseout of leaded gasoline reduced the overall inventory of airborne lead by nearly 95%. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emissions sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance, including intelligence quotient (IQ) performance, psychomotor performance, reaction time, and growth. Children are highly susceptible to the effects of lead.

**Sulfates.** Sulfates are the fully oxidized form of sulfur, which typically occur in combination with metals or hydrogen ions. Sulfates are produced from reactions of SO<sub>2</sub> in the atmosphere. Sulfates can result in respiratory impairment, as well as reduced visibility.

**Vinyl Chloride.** Vinyl chloride is a colorless gas with a mild, sweet odor, which has been detected near landfills, sewage plants, and hazardous waste sites, due to the microbial breakdown of chlorinated solvents. Short-term exposure to high levels of vinyl chloride in air can cause nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure through inhalation can cause liver damage, including liver cancer.

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**Hydrogen Sulfide.** Hydrogen sulfide is a colorless and flammable gas that has a characteristic odor of rotten eggs. Sources of hydrogen sulfide include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants. Exposure to hydrogen sulfide can result in nuisance odors, as well as headaches and breathing difficulties at higher concentrations.

**Visibility-Reducing Particles.** Visibility-reducing particles are any particles in the air that obstruct the range of visibility. Effects of reduced visibility can include obscuring the viewshed of natural scenery, reducing airport safety, and discouraging tourism. Sources of visibility-reducing particles are the same as for PM<sub>2.5</sub> described above.

**Reactive Organic Gases.** Hydrocarbons are organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O<sub>3</sub> are referred to and regulated as ROG. Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources of hydrocarbons include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.

The primary health effects of ROG result from the formation of O<sub>3</sub> and its related health effects. High levels of ROG in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate health standards for ROG as a group.

#### **2.1.2.2 Non-Criteria Air Pollutants**

**Toxic Air Contaminants.** A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a TAC. TACs are identified by federal and state agencies based on a review of available scientific evidence. In the state of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics “Hot Spots” Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

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Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources, such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources, such as automobiles; and area sources, such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

**Diesel Particulate Matter.** Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust. Diesel exhaust is composed of two phases, gas and particle, both of which contribute to health risks. More than 90% of DPM is less than 1 micrometer in diameter (about 1/70th the diameter of a human hair), and thus is a subset of PM<sub>2.5</sub> (CARB 2016b). DPM is typically composed of carbon particles (“soot,” also called black carbon, or BC) and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of these chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene (CARB 2016b). The CARB classified “particulate emissions from diesel-fueled engines” (i.e., DPM; 17 CCR 93000) as a TAC in August 1998. DPM is emitted from a broad range of diesel engines: on-road diesel engines of trucks, buses, and cars and off-road diesel engines including locomotives, marine vessels, and heavy-duty construction equipment, among others. Approximately 70% of all airborne cancer risk in California is associated with DPM (CARB 2000). To reduce the cancer risk associated with DPM, CARB adopted a diesel risk reduction plan in 2000 (CARB 2000). Because it is part of PM<sub>2.5</sub>, DPM also contributes to the same non-cancer health effects as PM<sub>2.5</sub> exposure. These effects include premature death; hospitalizations and emergency department visits for exacerbated chronic heart and lung disease, including asthma; increased respiratory symptoms; and decreased lung function in children. Several studies suggest that exposure to DPM may also facilitate development of new allergies (CARB 2016b). Those most vulnerable to non-cancer health effects are children, whose lungs are still developing, and the elderly, who often have chronic health problems.

**Odorous Compounds.** Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person’s reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is quite subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. In a phenomenon known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend

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on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

### **2.1.3 Sensitive Receptors**

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (CARB 2005). The SCAQMD identifies sensitive receptors as residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). Residential land uses are located to the east of the proposed project site. The closest off-site sensitive receptors to the project site include residences located approximately 130 feet east of the project's limits of construction.

## **2.2 Regulatory Setting**

### **2.2.1 Federal Regulations**

#### **2.2.1.1 Criteria Air Pollutants**

The federal Clean Air Act, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. EPA is responsible for implementing most aspects of the Clean Air Act, including setting National Ambient Air Quality Standards (NAAQS) for major air pollutants; setting hazardous air pollutant (HAP) standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O<sub>3</sub> protection measures, and enforcement provisions. Under the Clean Air Act, NAAQS are established for the following criteria pollutants: O<sub>3</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and lead.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act requires EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state

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implementation plan that demonstrates how those areas will attain the standards within mandated time frames.

### 2.2.1.2 Hazardous Air Pollutants

The 1977 federal Clean Air Act amendments required EPA to identify national emission standards for hazardous air pollutants to protect public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 federal Clean Air Act Amendments, which expanded the control program for HAPs, 189 substances and chemical families were identified as HAPs.

## 2.2.2 State Regulations

### 2.2.2.1 Criteria Air Pollutants

The federal Clean Air Act delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the California Clean Air Act of 1988, responding to the federal Clean Air Act, and regulating emissions from motor vehicles and consumer products.

CARB has established California Ambient Air Quality Standards (CAAQS), which are generally more restrictive than the NAAQS. The CAAQS describe adverse conditions; that is, pollution levels must be below these standards before a basin can attain the standard. Air quality is considered “in attainment” if pollutant levels are continuously below the CAAQS and violate the standards no more than once each year. The CAAQS for O<sub>3</sub>, CO, SO<sub>2</sub> (1-hour and 24-hour), NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. The NAAQS and CAAQS are presented in Table 2.2-1.

**Table 2.2-1**  
**Ambient Air Quality Standards**

Pollutant	Averaging Time	California Standards <sup>a</sup>	National Standards <sup>b</sup>	
		Concentration <sup>c</sup>	Primary <sup>c,d</sup>	Secondary <sup>c,e</sup>
O <sub>3</sub>	1 hour	0.09 ppm (180 µg/m <sup>3</sup> )	—	Same as primary standard <sup>f</sup>
	8 hours	0.070 ppm (137 µg/m <sup>3</sup> )	0.070 ppm (137 µg/m <sup>3</sup> ) <sup>f</sup>	
NO <sub>2</sub> <sup>g</sup>	1 hour	0.18 ppm (339 µg/m <sup>3</sup> )	0.100 ppm (188 µg/m <sup>3</sup> )	



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**Table 2.2-1**  
**Ambient Air Quality Standards**

Pollutant	Averaging Time	California Standards <sup>a</sup>	National Standards <sup>b</sup>	
		Concentration <sup>c</sup>	Primary <sup>c,d</sup>	Secondary <sup>c,e</sup>
	Annual arithmetic mean	0.030 ppm (57 µg/m <sup>3</sup> )	0.053 ppm (100 µg/m <sup>3</sup> )	Same as primary standard
CO	1 hour	20 ppm (23 mg/m <sup>3</sup> )	35 ppm (40 mg/m <sup>3</sup> )	None
	8 hours	9.0 ppm (10 mg/m <sup>3</sup> )	9 ppm (10 mg/m <sup>3</sup> )	
SO <sub>2</sub> <sup>h</sup>	1 hour	0.25 ppm (655 µg/m <sup>3</sup> )	0.075 ppm (196 µg/m <sup>3</sup> )	—
	3 hours	—	—	0.5 ppm (1,300 µg/m <sup>3</sup> )
	24 hours	0.04 ppm (105 µg/m <sup>3</sup> )	0.14 ppm (for certain areas) <sup>g</sup>	—
	Annual	—	0.030 ppm (for certain areas) <sup>g</sup>	—
PM <sub>10</sub> <sup>i</sup>	24 hours	50 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	Same as primary standard
	Annual arithmetic mean	20 µg/m <sup>3</sup>	—	
PM <sub>2.5</sub> <sup>i</sup>	24 hours	—	35 µg/m <sup>3</sup>	Same as primary standard
	Annual arithmetic mean	12 µg/m <sup>3</sup>	12.0 µg/m <sup>3</sup>	15.0 µg/m <sup>3</sup>
Lead <sup>j,k</sup>	30-day average	1.5 µg/m <sup>3</sup>	—	—
	Calendar quarter	—	1.5 µg/m <sup>3</sup> (for certain areas) <sup>k</sup>	Same as primary standard
	Rolling 3-month average	—	0.15 µg/m <sup>3</sup>	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m <sup>3</sup> )	—	—
Vinyl chloride <sup>l</sup>	24 hours	0.01 ppm (26 µg/m <sup>3</sup> )	—	—
Sulfates	24- hours	25 µg/m <sup>3</sup>	—	—
Visibility reducing particles	8 hour (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016.

Notes: O<sub>3</sub> = ozone; ppm = parts per million by volume; µg/m<sup>3</sup> = micrograms per cubic meter; NO<sub>2</sub> = nitrogen dioxide; CO = carbon monoxide; mg/m<sup>3</sup> = milligrams per cubic meter; SO<sub>2</sub> = sulfur dioxide; PM<sub>10</sub> = coarse particulate matter; PM<sub>2.5</sub> = fine particulate matter; PST = Pacific Standard Time.

<sup>a</sup> California standards for O<sub>3</sub>, CO, SO<sub>2</sub> (1-hour and 24-hour), NO<sub>2</sub>, suspended particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

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- <sup>b</sup> National standards (other than O<sub>3</sub>, NO<sub>2</sub>, SO<sub>2</sub>, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O<sub>3</sub> standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM<sub>10</sub>, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m<sup>3</sup> is equal to or less than 1. For PM<sub>2.5</sub>, the 24-hour standard is attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.
- <sup>c</sup> Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on 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.
- <sup>d</sup> National primary standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.
- <sup>e</sup> National secondary standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- <sup>f</sup> On October 1, 2015, the national 8-hour O<sub>3</sub> primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- <sup>g</sup> To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of 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.
- <sup>h</sup> On June 2, 2010, a new 1-hour SO<sub>2</sub> standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO<sub>2</sub> national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
- <sup>i</sup> On December 14, 2012, the national annual PM<sub>2.5</sub> primary standard was lowered from 15 µg/m<sup>3</sup> to 12.0 µg/m<sup>3</sup>. The existing national 24-hour PM<sub>2.5</sub> standards (primary and secondary) were retained at 35 µg/m<sup>3</sup>, as was the annual secondary standard of 15 µg/m<sup>3</sup>. The existing 24-hour PM<sub>10</sub> standards (primary and secondary) of 150 µg/m<sup>3</sup> were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.
- <sup>j</sup> CARB has identified lead and vinyl chloride as TACs 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.
- <sup>k</sup> The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m<sup>3</sup> as a quarterly average) remains in effect until 1 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.

### 2.2.2.2 Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. In 1987, the Legislature enacted the Air Toxics “Hot Spots” Information and Assessment Act of 1987 (AB 2588) to address public concern over the release of TACs into the atmosphere. AB 2588 law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years. TAC emissions from individual facilities are quantified and prioritized. “High-priority” facilities are required to perform a health risk assessment (HRA), and if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.



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In 2000, CARB approved a comprehensive diesel risk reduction plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000). The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. There are several Airborne Toxic Control Measures that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

### **California Health and Safety Code Section 41700**

This section of the Health and Safety Code states that a person shall not discharge from any source whatsoever 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 of those persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

### **2.2.3 Local Regulations**

#### **2.2.3.1 South Coast Air Quality Management District**

SCAQMD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the SCAB, where the project is located. SCAQMD operates monitoring stations in the SCAB, develops rules and regulations for stationary sources and equipment, prepares emissions inventory and air quality management planning documents, and conducts source testing and inspections. SCAQMD's Air Quality Management Plans (AQMPs) include control measures and strategies to be implemented to attain state and federal ambient air quality standards in the SCAB. SCAQMD then implements these control measures as regulations to control or reduce criteria pollutant emissions from stationary sources or equipment.

The most recent adopted AQMP is the 2016 AQMP (SCAQMD 2017), which was adopted by the SCAQMD governing board on March 3, 2017. The 2016 AQMP is a regional blueprint for achieving air quality standards and healthful air. The 2016 AQMP represents a new approach, focusing on available, proven, and cost effective alternatives to traditional strategies, while seeking to achieve multiple goals in partnership with other entities promoting reductions in GHGs and toxic risk, as

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well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017). Because mobile sources are the principal contributor to the SCAB's air quality challenges, SCAQMD has been and will continue to be closely engaged with CARB and EPA, who have primary responsibility for these sources. The 2016 AQMP recognizes the critical importance of working with other agencies to develop funding and other incentives that encourage the accelerated transition of vehicles, buildings, and industrial facilities to cleaner technologies in a manner that benefits not only air quality but also local businesses and the regional economy. These "win-win" scenarios are key to implementation of this 2016 AQMP with broad support from a wide range of stakeholders.

The previous AQMP was the 2012 AQMP, which was adopted in February 2013 (SCAQMD 2013). The 2012 AQMP proposed policies and measures to achieve federal and state standards for improved air quality in the SCAB and those portions of the Salton Sea Air Basin (formerly named the Southeast Desert Air Basin) that are under SCAQMD jurisdiction. The 2012 AQMP is designed to meet applicable federal and state requirements for O<sub>3</sub> and particulate matter. The 2012 AQMP documents that attainment of the federal 24-hour PM<sub>2.5</sub> standard is impracticable by 2015 and the SCAB should be classified as a Serious nonattainment area along with the appropriate federal requirements. The 2012 AQMP includes the planning requirements to meet the 1-hour O<sub>3</sub> standard. The 2012 AQMP demonstrates attainment of the federal 24-hour PM<sub>2.5</sub> standard by 2014 in the SCAB through adoption of all feasible measures. Finally, the 2012 AQMP updates the EPA-approved 8-hour O<sub>3</sub> control plan with new measures designed to reduce reliance on the Clean Air Act Section 182(e)(5) long-term measures for NO<sub>x</sub> and VOC reductions. The 2012 AQMP reduction and control measures, which are outlined to mitigate emissions, are based on existing and projected land use and development. EPA, with a final ruling on April 14, 2016, approved the Clean Air Act planning requirements for the 24-hour PM<sub>2.5</sub> standard portion and on September 3, 2014, approved the 1-hour ozone Clean Air Act planning requirements.

### **Applicable Rules**

Emissions that would result from mobile, area, and stationary sources during construction and operation of the project are subject to the rules and regulations of SCAQMD. The SCAQMD rules applicable to the project may include the following:

- **Rule 401 – Visible Emissions:** This rule establishes the limit for visible emissions from stationary sources.
- **Rule 402 – Nuisance:** This rule prohibits the discharge of air pollutants from a facility that cause injury, detriment, nuisance, or annoyance to the public or damage to business or property.
- **Rule 403 – Fugitive Dust:** This rule requires fugitive dust sources to implement best available control measures for all sources and prohibits all forms of visible particulate

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matter from crossing any property line. SCAQMD Rule 403 is intended to reduce PM<sub>10</sub> emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust.

- **Rule 431.2 – Sulfur Content of Liquid Fuels:** The purpose of this rule is to limit the sulfur content in diesel and other liquid fuels for the purpose of reducing the formation of SO<sub>x</sub> and particulates during combustion and of enabling the use of add-on control devices for diesel-fueled internal combustion engines. The rule applies to all refiners, importers, and other fuel suppliers such as distributors, marketers, and retailers, as well as to users of diesel, low-sulfur diesel, and other liquid fuels for stationary-source applications in the SCAQMD. The rule also affects diesel fuel supplied for mobile sources.
- **Rule 1110.2 – Emissions from Gaseous- and Liquid-Fueled Engines:** This rule applies to stationary and portable engines rated at greater than 50 horsepower. The purpose of Rule 1110.2 is to reduce NO<sub>x</sub>, VOCs, and CO emissions from engines. Emergency engines, including those powering standby generators, are generally exempt from the emissions and monitoring requirements of this rule because they have permit conditions that limit operation to 200 hours or less per year as determined by an elapsed operating time meter.
- **Rule 1113 – Architectural Coatings:** This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

#### **2.2.3.2 Southern California Association of Governments**

The Southern California Association of Governments (SCAG) is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. SCAG serves as the federally designated metropolitan planning organization (MPO) for the Southern California region and is the largest MPO in the United States.

With respect to air quality planning and other regional issues, SCAG has prepared the 2008 Regional Comprehensive Plan: Helping Communities Achieve a Sustainable Future (2008 RCP) for the region (SCAG 2008). The 2008 RCP sets the policy context in which SCAG participates and responds to the SCAQMD air quality plans and builds off the SCAMQD AQMP processes that are designed to meet health-based criteria pollutant standards in several ways (SCAG 2008). First, it complements AQMPs by providing guidance and incentives for public agencies to consider best practices that support the technology-based control measures in AQMPs. Second, the 2008 RCP emphasizes the need for local initiatives that can reduce the region's GHG

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emissions that contribute to climate change, an issue that is largely outside the focus of local attainment plans, which is assessed in Chapter 3. Third, the 2008 RCP emphasizes the need for better coordination of land use and transportation planning, which heavily influences the emissions inventory from the transportation sectors of the economy. This also minimizes land use conflicts, such as residential development near freeways, industrial areas, or other sources of air pollution.

On April 7, 2016, SCAG's Regional Council adopted the 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS). The 2016 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The 2016 RTP/SCS charts a course for closely integrating land use and transportation so that the region can grow smartly and sustainably. The 2016 RTP/SCS was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders within the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration and the Federal Transit Administration indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 Federal Transportation Improvement Program Consistency Amendment through Amendment 15-12 had been met (SCAG 2016). The SCAQMD 2016 AQMP applies the updated SCAG growth forecasts assumed in the 2016 RTP/SCS.

#### **2.2.3.3 City of Carson**

As discussed in the City's General Plan, policies pertaining to improving air quality are addressed in Chapter 10, Air Quality Element. The Air Quality Element is intended to protect the public's health and welfare by implementing measures that allow the South Coast Air Basin to attain Federal and State air quality standards. To achieve this goal, the Element sets forth a number of programs to reduce current pollution emissions and to require new development to include measures to comply with air quality standards.

Goals directly applicable to air quality are described below.

#### **Dust Generation**

Goal: AQ-1: Reduced particulate emissions from paved and unpaved surfaces and during building construction.

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### Regional Air Quality

Goal: AQ-2: Air quality which meets State and Federal standards.

Goal: AQ-3: Increased use of alternate fuel vehicles.

### Community Awareness and Emergency Response Actions

Goal: AQ-4: Increased community awareness and participation in efforts to reduce air pollution and enhance air quality.

### Polluting Industries

Goal: AQ-5: Reduce emissions related to industry to enhance air quality.

## 2.3 Regional and Local Air Quality Conditions

### 2.3.1 South Coast Air Basin Attainment Designation

Pursuant to the 1990 federal Clean Air Act amendments, EPA classifies air basins (or portions thereof) as “attainment” or “nonattainment” for each criteria air pollutant, based on whether the NAAQS have been achieved. Generally, if the recorded concentrations of a pollutant are lower than the standard, the area is classified as “attainment” for that pollutant. If an area exceeds the standard, the area is classified as “nonattainment” for that pollutant. If there is not enough data available to determine whether the standard is exceeded in an area, the area is designated as “unclassified” or “unclassifiable.” The designation of “unclassifiable/attainment” means that the area meets the standard or is expected to be meet the standard despite a lack of monitoring data. Areas that achieve the standards after a nonattainment designation are re-designated as maintenance areas and must have approved Maintenance Plans to ensure continued attainment of the standards. The California Clean Air Act, like its federal counterpart, called for the designation of areas as “attainment” or “nonattainment,” but based on CAAQS rather than the NAAQS. Table 2 depicts the current attainment status of the project site with respect to the NAAQS and CAAQS. The attainment classifications for the criteria pollutants are outlined in Table 2.3-1.

**Table 2.3-1**  
**South Coast Air Basin Attainment Classification**

Pollutant	Designation/Classification	
	<i>Federal Standards</i>	<i>State Standards</i>
Ozone (O <sub>3</sub> ) – 1 hour	No federal standard	Nonattainment
Ozone (O <sub>3</sub> ) – 8 hour	Extreme nonattainment	Nonattainment

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**Table 2.3-1**  
**South Coast Air Basin Attainment Classification**

Pollutant	Designation/Classification	
	<i>Federal Standards</i>	<i>State Standards</i>
Nitrogen dioxide (NO <sub>2</sub> )	Unclassifiable/attainment	Attainment
Carbon monoxide (CO)	Attainment/maintenance	Attainment
Sulfur dioxide (SO <sub>2</sub> )	Unclassifiable/attainment	Attainment
Coarse particulate matter (PM <sub>10</sub> )	Attainment/maintenance	Nonattainment
Fine particulate matter (PM <sub>2.5</sub> )	Serious nonattainment	Nonattainment
Lead (Pb)	Nonattainment	Attainment
Hydrogen sulfide	No federal standard	Unclassified
Sulfates	No federal standard	Attainment
Visibility-reducing particles	No federal standard	Unclassified
Vinyl chloride	No federal standard	No designation

Sources: CARB 2018a (federal and state).

Notes: **Bold text** = not in attainment; attainment = meets the standards; attainment/maintenance = achieve the standards after a nonattainment designation; nonattainment = does not meet the standards; unclassified or unclassifiable = insufficient data to classify; unclassifiable/attainment = meets the standard or is expected to be meet the standard despite a lack of monitoring data.

In summary, the SCAB is designated as a nonattainment area for federal and state O<sub>3</sub> standards and federal and state PM<sub>2.5</sub> standards. The SCAB is designated as a nonattainment area for state PM<sub>10</sub> standards; however, it is designated as an attainment area for federal PM<sub>10</sub> standards. The SCAB is designated as an attainment area for federal and state CO standards, federal and state NO<sub>2</sub> standards, and federal and state SO<sub>2</sub> standards. While the SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard (EPA 2016c; CARB 2016d).

Despite the current non-attainment status, air quality within the SCAB has generally improved since the inception of air pollutant monitoring in 1976. This improvement is mainly due to lower-polluting on-road motor vehicles, more stringent regulation of industrial sources, and the implementation of emission reduction strategies by SCAQMD. This trend toward cleaner air has occurred in spite of continued population growth. Despite this growth, air quality has improved significantly over the years, primarily due to the impacts of the region's air quality control program. PM<sub>10</sub> levels have declined almost 50% since 1990, and PM<sub>2.5</sub> levels have also declined 50% since measurements began in 1999 (SCAQMD 2013). Similar improvements are observed with O<sub>3</sub>, although the rate of O<sub>3</sub> decline has slowed in recent years.

### 2.3.2 Local Ambient Air Quality

CARB, air districts, and other agencies monitor ambient air quality at approximately 250 air quality monitoring stations across the state. SCAQMD monitors local ambient air quality at the



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project site. Air quality monitoring stations usually measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. The most recent background ambient air quality data from 2016 to 2018 are presented in Table 4. The Long Beach Webster Street monitoring station, located at 2425 Webster Street,<sup>5</sup> California 90810, is the nearest air quality monitoring station to the project site, located approximately 4.6 miles southeast from the project site. The data collected at this station are considered representative of the air quality experienced in the project vicinity. Air quality data for O<sub>3</sub>, NO<sub>2</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> from the Long Beach Boulevard monitoring station are provided in Table 4. Because PM<sub>2.5</sub> is not monitored at the Webster Street monitoring station, PM<sub>2.5</sub> measurements were taken from the Long Beach - Long Beach Boulevard monitoring station (5895 Long Beach Boulevard, California, 90807, approximately 4.8 miles east-northeast from the project site). The number of days exceeding the ambient air quality standards is also shown in Table 2.3-2.

**Table 2.3-2**  
**Local Ambient Air Quality Data**

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2016	2017	2018	2016	2017	2018
Ozone (O <sub>3</sub> )										
Long Beach Webster Street	ppm	Maximum 1-hour concentration	State	0.09	0.079	0.082	0.074	0	0	0
	ppm	Maximum 8-hour concentration	State	0.070	0.059	0.069	0.064	0	0	0
			Federal	0.070	0.059	0.068	0.063	0	0	0
Nitrogen Dioxide (NO <sub>2</sub> )										
Long Beach Webster Street	ppm	Maximum 1-hour concentration	State	0.18	0.08	0.09	0.09	0	0	0
			Federal	0.100	0.076	0.090	0.085	0	0	0
	ppm	Annual concentration	State	0.030	0.019	0.018	0.017	0	0	0
			Federal	0.053	0.019	0.018	0.017	0	0	0
Carbon Monoxide (CO)										
Long Beach Webster Street	ppm	Maximum 1-hour concentration	State	20	3	4	5	0	0	0
			Federal	35	3	4	5	0	0	0
	ppm	Maximum 8-hour concentration	State	9.0	2.2	2.6	2.1	0	0	0
			Federal	9	2	3	2	0	0	0
Sulfur Dioxide (SO <sub>2</sub> )										

<sup>5</sup> The address of 2425 Webster Street has been changed to 2425 Webster Avenue; however, the location is the same.

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**Table 2.3-2**  
**Local Ambient Air Quality Data**

Monitoring Station	Unit	Averaging Time	Agency/ Method	Ambient Air Quality Standard	Measured Concentration by Year			Exceedances by Year		
					2016	2017	2018	2016	2017	2018
Long Beach Webster Street	ppm	Maximum 1-hour concentration	Federal	0.075	0.018	0.020	0.011	0	0	0
	ppm	Maximum 24-hour concentration	Federal	0.14	-	-	-	—	—	—
	ppm	Annual concentration	Federal	0.030	-	-	-	—	—	—
<i>Coarse Particulate Matter (PM<sub>10</sub>)<sup>b</sup></i>										
Long Beach Webster Street	µg/m <sup>3</sup>	Maximum 24-hour concentration	State	50	75	79	83	8	10	4
			Federal	150	75	79	84	0	0	0
	µg/m <sup>3</sup>	Annual concentration	State	20	-	-	32.5	—	—	—
<i>Fine Particulate Matter (PM<sub>2.5</sub>)<sup>b</sup></i>										
Long Beach-Route 710 Near Road	µg/m <sup>3</sup>	Maximum 24-hour concentration	Federal	35	33.3	85.4	103.8	0	8	9
	µg/m <sup>3</sup>	Annual concentration	State	12	12	13	13	0	—	—
			Federal	12.0	12.0	12.8	13.2	0	—	—

Sources: CARB 2018a; EPA 2018c.

Notes: ppm = parts per million by volume; ND = insufficient data available to determine the value; — = not available; µg/m<sup>3</sup> = micrograms per cubic meter.

Data taken from CARB iADAM (<http://www.arb.ca.gov/adam>) and EPA AirData (<http://www.epa.gov/airdata/>) represent the highest concentrations experienced over a given year.

Exceedances of federal and state standards are only shown for O<sub>3</sub> and particulate matter. Daily exceedances for particulate matter are estimated days because PM<sub>10</sub> and PM<sub>2.5</sub> are not monitored daily. All other criteria pollutants did not exceed federal or state standards during the years shown. There is no federal standard for 1-hour ozone, annual PM<sub>10</sub>, or 24-hour SO<sub>2</sub>, nor is there a state 24-hour standard for PM<sub>2.5</sub>.

Long Beach Webster Street Monitoring Station is located at 2425 Webster Street, Long Beach, California 90810.

Long Beach-Route 710 Near Road Monitoring Station is located at 5895 Long Beach Blvd, Long Beach, California 90807.

<sup>a</sup> Mean does not satisfy minimum data completeness criteria.

<sup>b</sup> Measurements of PM<sub>10</sub> and PM<sub>2.5</sub> are usually collected every 6 days and every 1 to 3 days, respectively. Number of days exceeding the standards is a mathematical estimate of the number of days concentrations would have been greater than the level of the standard had each day been monitored. The numbers in parentheses are the measured number of samples that exceeded the standard.



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### 2.4 Significance Criteria and Methodology

#### 2.4.1 Thresholds of Significance

The significance criteria used to evaluate the project impacts to air quality is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this air quality analysis, a significant impact would occur if the project would (14 CCR 15000 et seq.):

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

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether the project would have a significant impact on air quality.

The SCAQMD has established Air Quality Significance Thresholds, as revised in April 2019, that set forth quantitative emission significance thresholds below which a project would not have a significant impact on ambient air quality under existing and cumulative conditions. The quantitative air quality analysis provided herein applies the SCAQMD thresholds identified in Table 2.4-1 to determine the potential for the project to result in a significant impact under CEQA.

**Table 2.4-1**  
**SCAQMD Air Quality Significance Thresholds**

Criteria Pollutants Mass Daily Thresholds		
<i>Pollutant</i>	<i>Construction (Pounds per Day)</i>	<i>Operation (Pounds per Day)</i>
VOCs	75	55
NO <sub>x</sub>	100	55
CO	550	550
SO <sub>x</sub>	150	150
PM <sub>10</sub>	150	150
PM <sub>2.5</sub>	55	55
Lead <sup>a</sup>	3	3
TACs and Odor Thresholds		

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**Table 2.4-1**  
**SCAQMD Air Quality Significance Thresholds**

Criteria Pollutants Mass Daily Thresholds		
Pollutant	Construction (Pounds per Day)	Operation (Pounds per Day)
TACs <sup>b</sup>	Maximum incremental cancer risk ≥ 10 in 1 million Chronic and acute hazard index ≥ 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality Standards for Criteria Pollutants <sup>c</sup>		
NO <sub>2</sub> 1-hour average NO <sub>2</sub> annual arithmetic mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.030 ppm (state) and 0.0534 ppm (federal)	
CO 1-hour average CO 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	
PM <sub>10</sub> 24-hour average  PM <sub>10</sub> annual average	10.4 µg/m <sup>3</sup> (construction) <sup>d</sup> 2.5 µg/m <sup>3</sup> (operation) 1.0 µg/m <sup>3</sup>	
PM <sub>2.5</sub> 24-hour average	10.4 µg/m <sup>3</sup> (construction) <sup>d</sup> 2.5 µg/m <sup>3</sup> (operation)	

Source: SCAQMD 2019.

Notes: SCAQMD = South Coast Air Quality Management District; VOC = volatile organic compounds; NO<sub>x</sub> = oxides of nitrogen; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides; PM<sub>10</sub> = coarse particulate matter; PM<sub>2.5</sub> = fine particulate matter; TAC = toxic air contaminant; NO<sub>2</sub> = nitrogen dioxide; ppm = parts per million by volume;  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

GHG emissions thresholds for industrial projects, as added in the March 2015 revision to the SCAQMD Air Quality Significance Thresholds, were not included in Table 5 as they are addressed within the GHG emissions analysis and not the air quality study.

<sup>a</sup> The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

<sup>b</sup> TACs include carcinogens and noncarcinogens.

<sup>c</sup> Ambient air quality standards for criteria pollutants are based on SCAQMD Rule 1303, Table A-2, unless otherwise stated.

<sup>d</sup> Ambient air quality threshold are based on SCAQMD Rule 403.

The evaluation of whether the project would conflict with or obstruct implementation of the applicable air quality plan (Impact AQ-1) is based on the SCAQMD CEQA Air Quality Handbook (SCAQMD 1993), Chapter 12, Sections 12.2 and 12.3. The first criterion assesses if the project would 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 of the interim emissions reductions specified in the AQMP, which is addressed in detail in Section 2.5.2, Threshold AQ-2. The second criterion is if the project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase, as discussed further in Section 2.5.1, Threshold AQ-1.

To evaluate the potential for the project to result in a cumulatively considerable new increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or

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state ambient air quality standard (Threshold AQ-2), this analysis applies the SCAQMD's construction and operational criteria pollutants mass daily thresholds, as shown in Table 2.4-1. A project would result in a cumulatively considerable new increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard, if the project's construction or operational emissions would exceed the SCAQMD VOC or NO<sub>x</sub> thresholds shown in Table 2.4-1. These emissions-based thresholds for O<sub>3</sub> precursors are intended to serve as a surrogate for an "ozone significance threshold" (i.e., the potential for adverse O<sub>3</sub> impacts to occur). This approach is used because O<sub>3</sub> is not emitted directly (see the discussion of O<sub>3</sub> and its sources in Section 2.1.2.1, Pollutants and Effects), and the effects of an individual project's emissions of O<sub>3</sub> precursors (VOC and NO<sub>x</sub>) on O<sub>3</sub> levels in ambient air cannot be determined through air quality models or other quantitative methods.

The assessment of the project's potential to expose sensitive receptors to substantial pollutant concentrations (Section 2.5.3, Threshold AQ-3) includes a localized significance threshold (LST) analysis, as recommended by the SCAQMD, to evaluate the potential of localized air quality impacts to sensitive receptors in the immediate vicinity of the project, CO hotspot assessment, and construction and operation HRA analyses. For project sites of 5 acres or less, the SCAQMD LST Methodology (2009) includes lookup tables that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance criteria (i.e., the emissions would not cause an exceedance of the applicable concentration limits for NO<sub>2</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>) without performing project-specific dispersion modeling. Although the proposed development area of the site is greater than 5 acres (estimated to be 14.5 acres), the project would disturb less than 5 acres in 1 day, as discussed in detail in the following text, so it is appropriate to use the lookup tables for the LST evaluation.

The LST significance thresholds for NO<sub>2</sub> and CO represent the allowable increase in concentrations above background levels in the vicinity of a project that would not cause or contribute to an exceedance of the relevant ambient air quality standards, while the threshold for PM<sub>10</sub> represents compliance with Rule 403 (Fugitive Dust). The LST significance threshold for PM<sub>2.5</sub> is intended to ensure that construction emissions do not contribute substantially to existing exceedances of the PM<sub>2.5</sub> ambient air quality standards. The allowable emission rates depend on the following parameters:

- Source-receptor area (SRA) in which the project is located
- Size of the project site
- Distance between the project site and the nearest sensitive receptor (e.g., residences, schools, hospitals)

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The project site is located in SRA 4 (South Coastal Los Angeles County). The SCAQMD provides guidance for applying California Emissions Estimator Model (CalEEMod) to the LSTs. LST pollutant screening level concentration data is currently published for 1-, 2-, and 5-acre sites for varying distances. The maximum number of acres disturbed on the peak day was estimated using the “Fact Sheet for Applying CalEEMod to Localized Significance Thresholds” (SCAQMD 2011), which provides estimated acres per 8-hour day for crawler tractors, graders, rubber-tired dozers, and scrapers. Based on the SCAQMD guidance, and assuming an excavator can grade 0.5 acres per 8-hour day (similar to graders, dozers, and tractors), it was estimated that the maximum daily area on the project site that would be disturbed by off-road equipment would be 2 acre per day (two graders and two rubber-tired dozers operating during the grading phase). Because the total disturbed acreage would be 14.5 acres over approximately 22 days, the estimate of 2 acre per day of disturbance is conservative.

The nearest sensitive-receptor land use (a residence) is located approximately 130 feet east of the project’s limits of construction. As such, the LST receptor distance was assumed to be 130 feet (40 meters). Because threshold values at 40-meters are directly provided in look up table, 40-meter thresholds were determined through interpolation between thresholds provided for 25 meters and 50 meters. The LST values from the SCAQMD lookup tables for SRA for a 2-acre project site and a receptor distance of 40 meters (130 feet) are shown in Table 2.4-2.

**Table 2.4-2**  
**Localized Significance Thresholds for Source Receptor Area 4**  
**(South Coastal Los Angeles County)**

Pollutant	Threshold (Pounds per Day)
NO <sub>2</sub>	80.80
CO	1,032
PM <sub>10</sub>	15.40
PM <sub>2.5</sub>	6.20

Source: SCAQMD 2009.

Notes: NO<sub>2</sub> = nitrogen dioxide; CO = carbon monoxide; PM<sub>10</sub> = coarse particulate matter; PM<sub>2.5</sub> = fine particulate matter.

LST thresholds were determined based on the values for 1-acre site at a distance of 25 meters (82 feet) from the nearest sensitive receptor.

The construction and operation HRA methodology and assumptions are presented in Sections 2.4.2.3 and 2.4.2.4, respectively. The HRA analyses apply the SCAQMD risk thresholds presented in Table 2.4-1, which are a maximum incremental cancer risk greater than or equal to 10 in 1 million and a chronic hazard index greater than or equal to 1.0 (project increment). The CO hotspot assessment and operation HRA are evaluated under the potential for the project to expose sensitive receptors to substantial pollutant concentrations (Section 2.5.4, Threshold AQ-3), along with the LST analysis.

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The potential for the project to result in an odor impact (Section 2.5.5, Threshold AQ-4) is based on the project's land use type and operational activity, and the potential for the project to create an odor nuisance pursuant to SCAQMD Rule 402.

#### **2.4.2 Approach and Methodology**

##### **2.4.2.1 Construction Emissions**

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the project applicant and CalEEMod default values when project specifics were not known.

For purposes of estimating project emissions, and based on information provided by the project applicant, construction would begin in January 2020 for a duration of 12 months. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Site Preparation: 11 days
- Grading: 22 days
- Trenching: 32 days
- Building Construction: 153 days
- Paving: 44 days
- Application of Architectural Coatings: 23 days

Construction-worker estimates and vendor truck trips by construction phase were based on applicant provided information. Additionally, haul truck trips during the grading phase were based on project applicant-provided information. Grading is not estimated to result in any soil export per information provided by the applicant. CalEEMod default trip length values were used for the distances for worker and vendor trips. Fugitive dust generated during truck loading is included in CalEEMod as an on-site source of fugitive dust emissions and is calculated based on estimated throughput of loaded and unloaded material.

The construction equipment mix and vehicle trips used for estimating the project-generated construction emissions are shown in Table 2.4-3. For the analysis, it was generally assumed that heavy construction equipment would be operating at the site 5 days per week (22 days per month) during project construction.

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**Table 2.4-3**  
**Construction Scenario Assumptions**

Construction Phase	One-Way Vehicle Trips			Equipment		
	<i>Average Daily Worker Trips</i>	<i>Average Daily Vendor Truck Trips</i>	<i>Total Haul Truck Trips</i>	<i>Equipment Type</i>	<i>Quantity</i>	<i>Usage Hours</i>
Site Preparation	8	0	0	Rubber tired dozers	2	8
Grading	20	0	0	Graders	2	8
				Rubber tired dozers	2	8
				Rollers	2	8
Trenching	16	2	0	Excavator	2	8
				Bore/Drill Rig	2	8
Building Construction	30	2	0	Cranes	1	7
				Forklifts	3	8
				Generators	1	8
				Tractors/loaders/backhoes	3	7
				Welders	1	8
Paving	20	6	0	Cement and Mortar Mixers	2	8
Architectural Coating	6	2	0	Aerial Lifts	2	8

Notes: See Appendix A for details.

### 2.4.2.2 Operational Emissions

Emissions from the operational phase of the project were estimated using CalEEMod Version 2016.3.2. Year 2021 was assumed as the first full year of operations after completion of construction.

#### Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating, water heating, and stoves are calculated in the building energy use module of CalEEMod, as described in the following text. The project would not include woodstoves or fireplaces (wood or natural gas). As such, area source emissions associated with hearths were not included.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints;

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and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2017). Consumer product VOC emissions are estimated in CalEEMod based on the floor area of residential and nonresidential buildings and on the default factor of pounds of VOC per building square foot per day. For parking lot land uses, CalEEMod estimates VOC emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of VOC per square foot per day.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers using during building maintenance. CalEEMod calculates the VOC evaporative emissions from application of residential and nonresidential surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The VOC emission factor is based on the VOC content of the surface coatings, and SCAQMD's Rule 1113 (Architectural Coatings) governs the VOC content for interior and exterior coatings. The model default reapplication rate of 10% of area per year is assumed. Consistent with CalEEMod defaults, it is assumed that the non-residential surface area for painting equals 2.0 times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating. For the parking surface area, the architectural coating area is assumed to be 6% of the total square footage, consistent with the supporting CalEEMod studies provided as an appendix to the CalEEMod User's Guide (CAPCOA 2017).

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers. The emissions associated from landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per residential dwelling unit per day and grams per square foot of nonresidential building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days. For Los Angeles County, the average annual "summer" days are estimated to 365 days; however, it is assumed that landscaping equipment would likely only operate during the week (not weekends), so operational days were assumed to be 250 days per year in CalEEMod (CAPCOA 2017). By design, the project would not include turf, and the proposed landscaped area would be minimal. Nonetheless, emissions associated with potential landscape maintenance equipment were included and no emission reduction features related to electric landscape equipment was assumed to conservatively capture potential project operational emission sources.

### **Energy Sources**

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage (non-hearth). Electricity use would contribute indirectly to criteria



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air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site.

For energy use from nonresidential buildings, CalEEMod energy intensity values (natural gas usage per square foot per year) assumptions were based on the California Commercial End-Use Survey database. CalEEMod default values for energy consumption were applied for the project analysis and were adjusted to assume regulatory compliance with the 2016 CALGreen Tier 1 standards. Per the 2016 CALGreen Tier 1 standards (24 CCR, Part 11), which would be required by the City, the project would be required to demonstrate that buildings exceed Title 24, Part 6, of the California Code of Regulations energy efficiency standards by 15%.

#### **Mobile Sources**

The proposed Project would generate criteria pollutant emissions from mobile sources (vehicular traffic) as a result of the employee passenger vehicles (workers) and truck traffic associated with the operation of the warehouse. Emissions from the mobile sources during operation of the proposed Project were estimated using a spreadsheet-based model and emissions factors from the CARB Mobile Source Emissions Inventory Model (EMFAC, version 2017), and EPA AP-42 factors for paved road dust generation. Emission calculation equations and assumptions were primarily derived from CalEEMod. The key factors in the mobile source emission calculations include trip rates, trip lengths, fleet mix, and emissions factors for each vehicle, which are described further below.

The Project trip rates and the truck fleet mix are based on the Trip Generation Analysis memorandum prepared for the proposed Project by Dudek (2019). The Project is anticipated to generate 546 average daily trips from passenger vehicles and 641 average daily trips from heavy-duty trucks. Of the 641 average daily truck trips, 11% (72 truck trips) were assumed to be 2-axle trucks, 26% (165 truck trips) would be 3-axle trucks, and 63% (404 truck trips) would be 4+-axle trucks. Consistent with CalEEMod default values for Los Angeles County, the worker trip lengths were assumed to be of 14.7 miles per one-way trip.

Because the proposed project purpose is to provide temporary parking and storage for trucks and truck-mounted containers, the proposed project does not result in any new truck trips from the ports to their destination. As such, the only new truck trip VMT as a result of the project would be the deviation of the trucks from their current route to and from the ports and to their destinations. A summary of truck route deviations is provided in Table 2.4-4, resulting in a weighted average truck trip of 0.36 miles per one-way trip.



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**Table 2.4-4 Truck Trip Deviation Route Summary**

Vehicle Type	Route	Direction From Site	Description	Percent Traveled (%)	Route Length (Miles)
Trucks	A	North	KL Fenix Truck Facility to/from I-110 via on ramp from Figueroa Street	90	0.2
	B	West	KL Fenix Truck Facility to/from I-405 via Figueroa Street, Del Amo Blvd, and Vermont Avenue	6	2.0
	C	East	KL Fenix Truck Facility to/from I-405 via Del Amo Blvd	4	1.59

Note: Routes and percent traveled based on Trip Generation Analysis, see Appendix B for additional details.

Vehicle emissions occur during startup, operation (running), idling, and from evaporative losses when the engines are resting. The emissions factors for trucks and passenger vehicles were determined using EMFAC2017. EMFAC2017 generates emissions factors, expressed in grams per mile, grams per trip, and grams per vehicle per day for the fleet in a class of motor vehicles within a county for a particular study year. For this analysis, Los Angeles County and calendar year 2021 was selected in EMFAC. For each vehicle emissions factor, aggregated values for model year and speed were assumed.

Consistent with the Trip Generation Analysis (Dudek 2019), vehicle emission factors were developed for passenger cars and heavy-duty trucks. A composite, or weighted-average, emissions factor was developed for Project vehicle types if more than one vehicle category in EMFAC is anticipated to be representative of the Project vehicle. For passenger vehicles, the composite emission factor represents the weighted average emission rate by vehicle miles traveled (VMT) for passenger vehicles (light-duty automobiles, LDA), light-duty trucks (LDT1, 0–3,750 pounds), light-duty trucks (LDT2, 3,751–5,750 pounds), and a composite mix of gasoline and diesel-fueled and electric. For the trucks, the percent breakdown by axle was used to develop the composite emission factor assuming the following vehicle categories EMFAC 2017: 2-axle trucks reflect a mix of light heavy-duty trucks 1 (LHDT1, 8,501 to 10,000 pounds) and light heavy-duty trucks (LHDT2, 10,001 to 14,000 pounds), 3-axle trucks reflect medium heavy-duty trucks (MHDT), and 4+-axle trucks reflect heavy heavy-duty trucks (HHDT).

*Running Exhaust, Tire Wear, and Brake Wear (grams per mile).* The vehicle exhaust, tire wear, and brake wear emission factors developed for trucks and passenger vehicles in grams per mile were then multiplied by the weighted average daily VMT to estimate emissions associated with vehicle travel to and from the site. As explained previously, it was assumed that each worker trip would be 14.7 miles and each truck trip would be 0.36 miles.

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*Starting Exhaust, Hot Soak, Running Loss Evaporative (grams per trip).* The vehicle starting exhaust, hot soak,<sup>6</sup> and running loss evaporative<sup>7</sup> emissions factors developed for trucks and passenger vehicles were then multiplied by the average daily vehicle trips to estimate emissions associated with vehicle travel to and from the site. Truck trips and passenger vehicle trips per day were based on Trip Generation Analysis.

*Resting Loss Evaporation and Diurnal Loss Evaporation (grams per trip).* The vehicle resting loss evaporative<sup>8</sup> and diurnal<sup>9</sup> loss emissions factors developed for trucks and passenger vehicles were then multiplied by the average daily vehicle trips and annual trips to estimate emissions associated with vehicles on site and resting. Truck trips and passenger vehicle trips per day were based on Trip Generation Analysis.

*Idling (grams per vehicle per minute).* Truck idling was estimated using EMFAC emission factors that were converted to per minute of idling per vehicle. All trucks were assumed to idle a maximum of 5 minutes each at the entrance gate and the exit gate; for a total of 10 minutes at the gates. For a small portion of trucks accessing the warehouse onsite, an additional 5 minutes of idling time was assumed to occur at the loading docks. To estimate the potential additional idling, it was assumed that one turn would occur every three hours at each of the six loading docks, resulting in a total of 24 trucks idling at the warehouse per day assuming a 12-hour work day. The truck idling locations include entrance-gate truck check-in, warehouse dock activities, and exit gate truck checkout.

*Paved Road Dust (grams per mile).* Vehicles that drive on paved roads generate fugitive dust by dispersing the silt from the roads. Paved road dust PM<sub>10</sub> and PM<sub>2.5</sub> emission factors were developed pursuant to the CalEEMod 2016.3.2 road dust equation and based on road surface silt loading factors from CalEEMod and particle size multipliers from AP-42 Section 13.2.1 Paved Roads (EPA 2011). Emissions were calculated by multiplying the paved road dust emission factors by the VMT.

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<sup>6</sup> HC Emissions (HOTSOK) that occur immediately after a trip are due to fuel heating as an engine remains hot for up to 35 minutes after being switched off.

<sup>7</sup> HC Emissions (RUNLOSS) that occur are a result of hot fuel vapors escape from the fuel system or overwhelm the carbon canister while the vehicle is operating

<sup>8</sup> Emissions that occur while the vehicle is sitting, caused by fuel permeation through rubber and plastic components. Emissions are counted as resting loss emissions if the vehicle has not been operated for 35 minutes and has been stationary, while the ambient temperature is either constant or decreasing.

<sup>9</sup> Emission that occur when rising ambient temperatures cause fuel evaporation from vehicles sitting throughout the day. These losses are from leaks in the fuel system, fuel hoses, connectors, as a result of the breakthrough of vapors from the carbon canister. If a vehicle is sitting for a period of time, emissions from the first 35 minutes are considered as hot soak and emissions from the remaining period are considered as diurnal emissions, provided that the ambient temperature is increasing during the remaining period of time.

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#### **2.4.2.3 Construction Health Risk Assessment**

A HRA was performed to evaluate potential health risk associated with construction of the project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Appendix C.

For risk assessment purposes, PM<sub>10</sub> in diesel exhaust is considered DPM, originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, the CalEEMod scenario for the project was adjusted to reduce diesel truck one-way trip distances to 1,000 feet to estimate emissions from truck pass-by at proximate receptors.

The air dispersion modeling methodology was based on generally accepted modeling practices of SCAQMD (SCAQMD 2018). Air dispersion modeling was performed using the EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 18081 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.6.5. The HRA followed the Office of Environmental Health Hazard Assessment (OEHHA) 2015 guidelines (OEHHA 2015) and SCAQMD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SCAQMD and EPA guidance and identified as representative of the project site and project activities. Principle parameters of this modeling are presented in Table 2.4-5.

**Table 2.4-5**  
**Construction HRA AERMOD Principal Parameters**

Parameter	Details
Meteorological Data	The SCAQMD requires the use of AERMOD for air dispersion modeling. The latest 5-year meteorological data for the Long Beach Airport station (Station ID 23129) from SCAQMD were downloaded, then input to AERMOD. For cancer or chronic noncancer risk assessments, the average cancer risk of all years modeled was used.
Urban versus Rural Option	Urban areas typically have more surface roughness as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected.
Terrain Characteristics	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset (NED) dataset with resolution of 1/3 arc-second was used (SCAQMD 2018a).
Emission Sources and Release Parameters	Air dispersion modeling of construction activities was conducted using emissions generated using CalEEMod, assuming 5 days per week and 22 days per month. The construction area was modeled as a series of adjacent volume sources.

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**Table 2.4-5**  
**Construction HRA AERMOD Principal Parameters**

Parameter	Details
Source Release Characterizations	Modeling release parameters were developed for the construction analyses. For modeling construction emissions dispersion using AERMOD, it was assumed that the total site area would have active construction activities for a duration of 1 year. The construction equipment DPM emissions were modeled as grid of adjacent volume sources across the project site (78 volume sources total) to represent project construction with a release height of 5 meters, initial vertical dimension of 1.4 meters, and an initial lateral dimension of 5.81 meters.

Note: See Appendix C.

Regarding receptors, a uniform 2-kilometer by 2-kilometer Cartesian grid with 100-meter spacing was centered over the project site and converted into discrete receptors to represent proximate sensitive receptors. An additional fine grid with 25 meter spacing was placed over nearby residential areas and converted into discrete receptors to represent proximate sensitive receptors.

The health risk calculations were performed using the Hotspots Analysis and Reporting Program Version 2 (HARP2) Air Dispersion and Risk Tool (ADMRT, dated 19121). AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The grid of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the noncancer chronic health indices. There is no reference exposure level (REL) for acute health impacts from DPM, and, thus, acute risk was not evaluated.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years for residential receptor locations. For the construction HRA, the TAC exposure period was assumed to be from third trimester to 2 years for all receptor locations (i.e., the assumed duration of project construction). The exposure pathway for DPM is inhalation only.

The SCAQMD has also established noncarcinogenic risk parameters for use in HRAs since some TACs increase noncancer health risk due to long-term (chronic) exposures and some TACs increase noncancer health risk due to short-term (acute) exposures. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in the HRA. Chronic exposure is evaluated in the construction HRA. Noncarcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or REL, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic

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hazard indices for all TACs affecting the same target organ system. A hazard index less than one (1.0) means that adverse health effects are not expected.

#### **2.4.2.3 Operational Health Risk Assessment**

A HRA was performed to evaluate potential health risk associated with operation of the project, specifically from trucks traveling to and from the project site, traveling within the project site, and idling within the project site. The following discussion summarizes the dispersion modeling and HRA methodology; supporting operational HRA documentation, including detailed assumptions, is presented in Appendix C. For risk assessment purposes, PM<sub>10</sub> in diesel exhaust is considered DPM, originating mainly from diesel trucks traveling on site and off site and truck idling. CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (CARB Handbook) encourages consideration of the health impacts of distribution centers that accommodates more than 100 trucks per day on sensitive receptors sited within 1,000 feet from the source in the land use decision-making process (CARB 2005).

Similar to the construction scenario as summarized in Section 2.4.2.3, air dispersion modeling methodology was based on generally accepted modeling practices of SCAQMD (SCAQMD 2018). Air dispersion modeling was performed using the EPA's AERMOD Version 18081 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.6.5. The HRA followed OEHHA 2015 guidelines (OEHHA 2015) and SCAQMD guidance to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were selected consistent with the SCAQMD and EPA guidance and identified as representative of the project site and project activities. Principal parameters of this modeling are presented in Table 2.5-4.

**Table 2.5-4**  
**Operational HRA AERMOD Principal Parameters**

Parameter	Details
Meteorological Data	The SCAQMD requires the use of AERMOD for air dispersion modeling. The latest 5-year meteorological data for the Long Beach Airport station (Station ID 23129) from SCAQMD were downloaded, then input to AERMOD. For cancer or chronic noncancer risk assessments, the average cancer risk of all years modeled was used.
Urban versus Rural Option	Urban areas typically have more surface roughness as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected.
Terrain Characteristics	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset (NED) dataset with resolution of 1/3 arc-second was used (SCAQMD 2018a).
Emission Sources and Release Parameters	Air dispersion modeling of operational activities was conducted using emissions generated using EMFAC2017.

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**Table 2.5-4**  
**Operational HRA AERMOD Principal Parameters**

Parameter	Details
Source Release Characterizations	Modeling release parameters were developed for the operational analyses. Offsite truck travel was modeled as a line of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 3.16 meters, and a plume width of 3.12 meters (EPA 2015). Onsite truck travel was also modeled as a line of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 3.16 meters, and a plume width of 1.56 meters (EPA 2015). Onsite truck idling was modeled as a volume source with an initial lateral dimension of 4.19 meters and an initial vertical dimension of 0.93 meters.

Note: See Appendix Dc

As with the construction HRA, a uniform 2-kilometer by 2-kilometer Cartesian grid with 100-meter spacing was centered over the project site and converted into discrete receptors to represent proximate sensitive receptors. An additional fine grid with 25 meter spacing was placed over nearby residential areas and converted into discrete receptors to represent proximate sensitive receptors.

Similar to the construction scenario as summarized in Section 2.4.2.3, the health risk calculations were performed using the HARP2 ADMRT (dated 18159). AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of adjacent volume sources were modeled with 1 gram per second evenly partitioned across each volume source. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the noncancer chronic health indices.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to TACs over a period of 30 years, operational lifetime, for residential receptor locations. For the operational HRA, the TAC exposure period was assumed to be from third trimester to 30 years for all receptor locations. The mandatory exposure pathways were selected.

The SCAQMD has also established noncarcinogenic risk parameters for use in HRAs since some TACs increase noncancer health risk due to long-term (chronic) exposures and some TACs increase noncancer health risk due to short-term (acute) exposures; however, no short term, acute relative exposure values are established and regulated for DPM and are therefore not addressed in this assessment. Noncarcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or REL, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual



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substance chronic hazard indices for all TACs affecting the same target organ system. A hazard index less than one (1.0) means that adverse health effects are not expected.

If the cancer risk from project operation at the maximally exposed individual resident exceeds 1 in a million, cancer burden, for which a SCAQMD significance threshold of 0.5, is evaluated. Unlike cancer risk, which is the lifetime probability (chances) of an individual developing cancer due to exposure to a carcinogenic compound, cancer burden estimates the number of theoretical cancer cases in a defined population resulting from a lifetime exposure to carcinogenic TACs. As described in the OEHHA guidance manual:

The cancer burden can be calculated by multiplying the cancer risk at a census block centroid by the number of people who live in the census block, and adding up the estimated number of potential cancer cases across the zone of impact. The result of this calculation is a single number that is intended to estimate of the number of potential cancer cases within the population that was exposed to the emissions for a lifetime (70 years) (OEHHA 2015).

## **2.5 Impact Analysis**

### **2.5.1 Threshold AQ-1**

**Would the project conflict with or obstruct implementation of the applicable air quality plan?**

As previously discussed, the project site is located within the SCAB under the jurisdiction of the SCAQMD, which is the local agency responsible for administration and enforcement of air quality regulations for the area. The SCAQMD has established criteria for determining consistency with the AQMP, currently the 2016 AQMP, in Chapter 12, Sections 12.2 and 12.3, in the SCAQMD CEQA Air Quality Handbook (SCAQMD 1993). The criteria are as follows (SCAQMD 1993):

- **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 of the interim emissions reductions specified in the AQMP.
- **Consistency Criterion No. 2:** The proposed project will not exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

#### **Consistency Criterion No. 1**

Section 2.5.2, Threshold AQ-2, evaluates the project's potential impacts in regards to CEQA Guidelines Appendix G Threshold 2 (will the project result in a cumulatively considerable new



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increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard). As discussed in Section 2.5.2, the project would not result in a significant and unavoidable impact associated with the violation of an air quality standard. Because the project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, the project would not conflict with Consistency Criterion No. 1 of the SCAQMD CEQA Air Quality Handbook.

#### **Consistency Criterion No. 2**

While striving to achieve the NAAQS for O<sub>3</sub> and PM<sub>2.5</sub> and the CAAQS for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> through a variety of air quality control measures, the 2016 AQMP also accommodates planned growth in the SCAB. Projects are considered consistent with, and would not conflict with or obstruct implementation of, the AQMP if the growth in socioeconomic factors (e.g., population, employment) is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook).

The potential of the proposed project to exceed the assumptions in the AQMP or increments based on the year of project buildout and phase is primarily assessed by determining consistency between the proposed project's land use designations and its potential to generate population growth. In general, projects are considered consistent with, and not in conflict with or obstruct implementation of, the AQMP if the growth they produce in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (SCAQMD 1993). The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, and employment by industry) developed by the Southern California Association of Governments (SCAG) for its 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (SCAG 2016). SCAQMD uses this document, which is based on general plans for cities and counties in the SCAB, to develop the AQMP emissions inventory (SCAQMD 2017).<sup>10</sup> The SCAG RTP/SCS, and associated Regional Growth Forecast, are generally consistent with the local plans; therefore, the 2016 AQMP is generally consistent with local government plans.

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<sup>10</sup> Information necessary to produce the emissions inventory for the SCAB is obtained from the SCAQMD and other governmental agencies, including the California Air Resources Board, Caltrans, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into its Travel Demand Model for estimating/projecting vehicle miles traveled and driving speeds. SCAG's socioeconomic and transportation activities projections in their *2016–2040 Regional Transportation Plan/Sustainable Communities Strategy* are integrated in the 2016 AQMP (SCAQMD 2017a).

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The Specific Plan is a regulatory tool to guide development in a local area consistent with the City's General Plan. While the General Plan provides the primary guide for growth and development citywide, the Specific Plan customizes the planning process to enhance and promote the unique characteristics of a special area. To ensure consistency between the KL Fenix Specific Plan and to the City of Carson General Plan, the General Plan will be amended concurrent with adoption of this Plan for the proposed project. The corresponding General Plan amendment establishes a "Heavy Manufacturing"<sup>1</sup> Land Use Designation for the KL Fenix Specific Plan area to replace the Site's existing "Light Industrial" General Plan designations. The proposed project would include a warehouse/office building that will face the Main Street frontage. The warehouse space will be approximately 39,000 square feet, along with an attached two story office space on one side that will be about 14,000 square feet. The total building area will be approximately 53,000 square feet with a height of approximately 42 feet. The proposed project would include 102 parking spaces for the proposed warehouse/office use. It would also include 475 spaces for cargo containers, along with 6 loading docks, and designated exterior and interior areas for the unloading and loading of goods between containers. Storage for stacked containers is not a part of the project. The project would not stimulate population growth or population concentration above what is assumed in local and regional land use plans, and does not include either residential uses or the extension of roads or other infrastructure. As such, the project would not either directly or indirectly induce growth in the project region. In addition, the project would not conflict with an applicable land use plan, policy, or regulation of an agency with jurisdiction over the project. Since the project is not anticipated to result in population or employment growth that would conflict with SCAG's projections, and would be consistent with the General Plan Use Designation and zoning for the proposed site, it would not conflict with or exceed the assumptions in the 2016 AQMP.

#### **Summary**

As described previously, the project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, and would not conflict with Consistency Criterion No. 1. Implementation of the project would not exceed the demographic growth forecasts in the SCAG 2016 RTP/SCS; therefore, the project would also be consistent with the SCAQMD 2016 AQMP, which based future emission estimates on the SCAG 2016 RTP/SCS. Thus, the project would not conflict with Consistency Criterion No. 2. Based on these considerations, impacts related to the project's potential to conflict with or obstruct implementation of the applicable air quality plan would be less than significant.

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### 2.5.2 Threshold AQ-2

*Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable Federal or State ambient air quality standard?*

A quantitative analysis was conducted to determine whether proposed activities might result in emissions of criteria air pollutants that may cause exceedances of the NAAQS or CAAQS, or cumulatively contribute to existing nonattainment of ambient air quality standards. Criteria air pollutants include ozone (O<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), sulfur dioxide, particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM<sub>10</sub>; coarse particulate matter), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM<sub>2.5</sub>; fine particulate matter), and lead. Pollutants that are evaluated herein include volatile organic compounds (VOCs) and oxides of nitrogen (NO<sub>x</sub>), which are important because they are precursors to O<sub>3</sub>, as well as CO, sulfur oxides (SO<sub>x</sub>), PM<sub>10</sub>, and PM<sub>2.5</sub>.

Regarding NAAQS and CAAQS attainment status<sup>11</sup>, the SCAB is designated as a nonattainment area for federal and state O<sub>3</sub> and PM<sub>2.5</sub> standards (CARB 2017; EPA 2018). The SCAB is also designated as a nonattainment area for state PM<sub>10</sub> standards; however, it is designated as an attainment area for federal PM<sub>10</sub> standards. The SCAB is designated as an attainment area for federal and state CO and NO<sub>2</sub> standards, as well as for state sulfur dioxide standards. Although the SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard.<sup>12</sup>

### Construction

Construction of the proposed project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (e.g., off-road construction equipment, soil disturbance, VOC off-gassing from asphalt pavement application) and off-site sources (e.g., vendor trucks, haul trucks, and worker vehicle trips). Specifically, entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM<sub>10</sub> and PM<sub>2.5</sub> emissions. Internal combustion engines used by construction equipment, haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOC, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>. Construction

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<sup>11</sup> An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. These standards for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare are set by the EPA and CARB, respectively. Attainment = meets the standards; attainment/maintenance = achieves the standards after a nonattainment designation; nonattainment = does not meet the standards.

<sup>12</sup> The phase-out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

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emissions can vary substantially from day to day depending on the level of activity; the specific type of operation; and, for dust, the prevailing weather conditions.

The proposed project would be required to comply with SCAQMD Rule 403 (SCAQMD 2015) to control dust emissions generated during any dust-generating activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active dust areas up to three times per day, depending on weather conditions.

For purposes of estimating proposed project emissions, and based on information provided by the applicant, it is assumed that construction of the proposed project would last approximately twelve (12) months. Table 2.5-1 presents the estimated maximum daily construction emissions generated during construction of the project. The values shown are the maximum summer or winter daily emissions results from CalEEMod. Details of the emission calculations are provided in Appendix A.

**Table 2.5-1**  
**Estimated Maximum Daily Construction Criteria Air Pollutant Emissions**

Year	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	<i>Pounds per Day</i>					
2020	3.63	39.54	18.12	0.04	7.90	4.73
Maximum daily emissions	3.63	39.54	18.12	0.04	7.90	4.73
SCAQMD threshold	75	100	550	150	150	55
Threshold exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO<sub>x</sub> = oxides of nitrogen; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides; PM<sub>10</sub> = coarse particulate matter; PM<sub>2.5</sub> = fine particulate matter; SCAQMD = South Coast Air Quality Management District.

See Appendix A for complete results.

The values shown are the maximum summer or winter daily emissions results from CalEEMod for the three years of construction. These emissions reflect CalEEMod mitigated output, which accounts for compliance with SCAQMD Rule 1113 (Architectural Coatings) and implementation of the project's fugitive dust control strategies, including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 mph.

<sup>a</sup> In addition, in order to estimate fugitive dust from excavation and movement of the additional 10% soil excavation buffer (i.e., 11,927 cubic yards), fugitive dust (PM<sub>10</sub> and PM<sub>2.5</sub>) was calculated using a spreadsheet model based on the CalEEMod equations for material handling. The potential 10% additional soil excavation would occur during the grading phase in year 1.

As shown in Table 2.5-1, daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, or PM<sub>2.5</sub> during construction. Construction-generated emissions would be temporary and would not represent a long-term source of criteria air pollutant emissions. As such, impacts would be less than significant.

### Operations

Operation of the proposed Project would generate VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions from mobile sources, including vehicle trips; area sources, including the use of consumer products,

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architectural coatings for repainting, and landscape maintenance equipment; and energy sources, including combustion of fuels used for space and water heating. Table 2.5-2 presents the maximum daily emissions associated with operation of the proposed project in 2021 at build out. The values shown are the maximum summer and winter daily emissions results from CalEEMod for area, energy, and offroad emissions sources plus the estimated mobile source emissions using a spreadsheet model and EMFAC emission factors. Complete details of the emissions calculations are provided in Appendix A and B.

**Table 2.5-2**  
**Estimated Maximum Daily Operational Criteria Air Pollutant Emissions**

Emission Source	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
	<i>pounds per day</i>					
Area	1.27	0.00	0.01	0.00	0.00	0.00
Energy	0.01	0.05	0.04	0.00	0.00	0.00
Mobile	2.10	12.40	25.91	0.07	7.39	1.87
<b>Total</b>	<b>3.38</b>	<b>12.45</b>	<b>25.96</b>	<b>0.07</b>	<b>7.39</b>	<b>1.87</b>
<i>SCAQMD Threshold</i>	<i>55</i>	<i>55</i>	<i>550</i>	<i>150</i>	<i>150</i>	<i>55</i>
Threshold Exceeded?	No	No	No	No	No	No

**Notes:**

VOC = volatile organic compound; NO<sub>x</sub> = oxides of nitrogen; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides; PM<sub>10</sub> = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); PM<sub>2.5</sub> = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District.  
See Appendix A and B for complete results.

The values for area, energy, and offroad equipment shown are the maximum summer or winter daily emissions results from the CalEEMod output, assuming operational year 2021. The total values may not add up exactly due to rounding.

As shown in Table 2.5-3, maximum daily operational emissions of VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> generated by the proposed project would not exceed the SCAQMD's significance thresholds.

As previously discussed, the SCAB has been designated as a federal nonattainment area for O<sub>3</sub> and PM<sub>2.5</sub>, and a state nonattainment area for O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. The nonattainment status is the result of cumulative emissions from various sources of air pollutants and their precursors within the SCAB, including motor vehicles, off-road equipment, and commercial and industrial facilities. Construction and operational activities of the proposed project would generate VOC and NO<sub>x</sub> emissions (precursors to O<sub>3</sub>) and emissions of PM<sub>10</sub> and PM<sub>2.5</sub>. However, as indicated in Tables 2.5-1 and 2.5-2, project-generated emissions would not exceed the SCAQMD emission-based significance thresholds for VOCs, NO<sub>x</sub>, PM<sub>10</sub>, or PM<sub>2.5</sub>.

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Cumulative localized impacts would potentially occur if a project were to occur concurrently with another off-site project. Schedules for potential future projects near the project area are currently unknown; therefore, potential impacts associated with two or more simultaneous projects would be considered speculative.<sup>13</sup> However, future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by the SCAQMD. Cumulative PM<sub>10</sub> and PM<sub>2.5</sub> emissions would be reduced because all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all sites in the SCAQMD. In addition, cumulative VOC emissions would be subject to SCAQMD Rule 1113 (Architectural Coatings).

Therefore, the proposed project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and impacts would be less than significant during construction and operation.

#### **Health Effects of Criteria Air Pollutants**

Construction of the proposed project would generate criteria air pollutant emissions; however, the project would not exceed the SCAQMD mass-emission thresholds.

Health effects associated with O<sub>3</sub> include respiratory symptoms, worsening of lung disease leading to premature death, and damage to lung tissue (CARB 2019). VOCs and NO<sub>x</sub> are precursors to O<sub>3</sub>, for which the SCAB is designated as nonattainment with respect to the NAAQS and CAAQS. Thus, existing O<sub>3</sub> levels in the SCAB are at unhealthy levels during certain periods. The contribution of VOCs and NO<sub>x</sub> to regional ambient O<sub>3</sub> concentrations is the result of complex photochemistry. The increases in O<sub>3</sub> concentrations in the SCAB due to O<sub>3</sub> precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O<sub>3</sub> concentrations would also depend on the time of year that the VOC emissions would occur because exceedances of the O<sub>3</sub> NAAQS and CAAQS tend to occur between May and October when solar radiation is highest. The holistic effect of a single project's emissions of O<sub>3</sub> precursors is speculative due to the lack of quantitative methods to assess this impact. Nonetheless, because the proposed project would not involve construction or operational activities that would result in O<sub>3</sub> precursor emissions (VOC or NO<sub>x</sub>) in excess of the SCAQMD thresholds, the project is not anticipated to substantially contribute to regional O<sub>3</sub> concentrations and the associated health impacts.

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<sup>13</sup> The California Environmental Quality Act (CEQA) Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).



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Exposure to NO<sub>2</sub> and NO<sub>x</sub> can irritate the lungs, cause bronchitis and pneumonia, lower resistance to respiratory infections, and enhance allergic responses (CARB 2019). Project construction and operation would not exceed the SCAQMD NO<sub>x</sub> threshold, and existing ambient NO<sub>2</sub> concentrations are below the NAAQS and CAAQS. Thus, implementation of the proposed project is not expected to exceed the NO<sub>2</sub> standards or contribute to associated health effects.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2019). CO tends to be a localized impact associated with congested intersections. CO hotspots were discussed previously as a less than significant impact. Thus, the proposed project's CO emissions would not contribute to the health effects associated with this pollutant.

Particulate matter exposure has been linked to a variety of problems, including premature death in people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms such as irritation of the airways, coughing, or difficulty breathing (EPA 2016). The SCAB is designated as nonattainment for PM<sub>10</sub> under the CAAQS and nonattainment for PM<sub>2.5</sub> under the NAAQS and CAAQS. Implementation of the proposed project would not generate emissions of PM<sub>10</sub> or PM<sub>2.5</sub> that would exceed the SCAQMD's thresholds. Accordingly, the proposed project's PM<sub>10</sub> and PM<sub>2.5</sub> emissions are not expected to cause an increase in related regional health effects for these pollutants.

In summary, the proposed project would not result in a potentially significant contribution to regional concentrations of nonattainment pollutants, and would not result in a significant contribution to the adverse health impacts associated with those pollutants. Therefore, impacts would be **less than significant**.

#### **2.5.3 Threshold AQ-3**

*Would the project expose sensitive receptors to substantial pollutant concentrations?*

##### **Localized Significance Thresholds**

A localized significance threshold (LST) analysis was performed to evaluate localized air quality impacts to sensitive receptors in the immediate vicinity of the proposed project as a result of proposed project activities. The impacts were analyzed using methods consistent with those in the SCAQMD's *Final Localized Significance Threshold Methodology* (2008). The proposed project is located within Source-Receptor Area (SRA) 4 (Carson).

The greatest onsite daily emissions of NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub> generated during construction occurred during the grading period of the proposed project construction, it was assumed that one two



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graders, two rubber tired dozers would be used based on information provided by the applicant. CalEEMod default values assume that during an 8-hour day, graders and rubber tired dozers can each disturb a maximum of 0.5 acres/8hr-day. This results in two acres disturbed per day. The SCAQMD LST values for two acres within SRA 4 with a receptor distance of 40 meters (~131 feet), which are conservative because the closest sensitive receptor is 130 feet away, were compared to emissions from the proposed project. LST threshold values are not provided for 40-meters; therefore, SCAQMD LST thresholds values were interpolated from 25-meter and 50-meter data.

Project construction activities would result in temporary sources of on-site criteria air pollutant emissions associated with construction equipment exhaust and dust-generating activities. According to the *Final Localized Significance Threshold Methodology*, “off-site mobile emissions from the project should not be included in the emissions compared to the LSTs” (SCAQMD 2008). Trucks and worker trips associated with the proposed project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Therefore, off-site emissions from trucks and worker vehicle trips are not included in the LST analysis. The maximum daily on-site construction emissions generated during construction of the proposed project is presented in Table 2.5-3 and compared to the SCAQMD localized significance criteria for SRA 4 to determine whether project-generated on-site construction emissions would result in potential LST impacts.

**Table 2.5-3. Construction Localized Significance Thresholds Analysis**

Year	NO <sub>2</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
	<i>Pounds per Day (On Site)<sup>a</sup></i>			
2020	39.48	16.85	7.68	4.67
<i>SCAQMD LST Criteria</i>	<i>80.80</i>	<i>1,032</i>	<i>15.54</i>	<i>6.20</i>
Threshold Exceeded?	No	No	No	No

Source: SCAQMD 2009.

Notes: CO = carbon monoxide; LST = localized significance threshold; NO<sub>2</sub> = nitrogen dioxide; PM<sub>2.5</sub> = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); PM<sub>10</sub> = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); SCAQMD = South Coast Air Quality Management District.

See Appendix B for detailed results.

<sup>a</sup> Localized significance thresholds are shown for a 2.0-acre disturbed area corresponding to a distance to a sensitive receptor of 40 meters in Source-Receptor Area 4 (Carson).

As shown in Table 2.5-3, proposed construction activities would not generate emissions in excess of site-specific LSTs; therefore, localized impacts of the proposed project would be less than significant.

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### Health Impacts of Toxic Air Contaminants

#### Construction Health Risk Assessment

As discussed in Section 2.4.2.3, a construction HRA was performed to estimate the Maximum Individual Cancer Risk and the Chronic Hazard Index for residential receptors as a result of project construction. Results of the construction HRA are presented in Table 2.5-4.

**Table 2.5-4**  
**Construction Health Risk Assessment Results – Unmitigated**

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	78.23	10	Potentially Significant
Chronic Hazard Index – Residential	Index Value	0.088	1.0	Less than Significant

Source: SCAQMD 2019.

Note: CEQA = California Environmental Quality Act.

See Appendix C.

As shown in Table 2.5-4, project construction activities would result in a Residential Maximum Individual Cancer Risk of 78 in 1 million, which exceeds the significance threshold of 10 in 1 million. Project construction would result in a Residential Chronic Hazard Index of 0.088, which is below the 1.0 significance threshold. The project construction TAC health risk impacts would be **potentially significant** and thus requires mitigation.

#### Mitigation Measure

**MM-AQ-1:** To reduce the potential for health risks as a result of construction of the project, the applicant shall:

- A. Prior to the start of construction activities, the project applicant, or its designee, shall ensure that all 75 horsepower or greater diesel-powered equipment are powered with CARB certified Tier 4 Interim engines, except where the project applicant establishes to the satisfaction of the City that Tier 4 Interim equipment is not available.
- B. All other diesel-powered construction equipment will be classified as Tier 3 or higher, at a minimum, except where the project applicant establishes to the satisfaction of the City that Tier 3 equipment is not available.

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In the case where the applicant is unable to secure a piece of equipment that meets the Tier 4 Interim requirement, the applicant may upgrade another piece of equipment to compensate (from Tier 4 Interim to Tier 4 Final). Engine Tier requirements in accordance with this measure shall be incorporated on all construction plans.

#### Significance After Mitigation

Table 2.5-5 presents construction HRA results assuming implementation of MM-AQ-1, which requires Tier 4 Interim equipment.

**Table 2.5-5**  
**Construction Health Risk Assessment Results – Mitigated**

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	7.95	10	Potentially Significant
Chronic Hazard Index – Residential	Index Value	0.009	1.0	Less than Significant

Source: SCAQMD 2019.

Note: CEQA = California Environmental Quality Act.

See Appendix C.

As shown in Table 7, with the implementation of mitigation MM-AQ-1 requiring Tier 4 Interim equipment, the estimated cancer risk during project construction would be reduced below the SCAQMD threshold of 10 in 1 million. Construction HRA impacts would be **less than significant with mitigation**.

#### Operation Health Risk Assessment

As discussed in Section 2.4.2.4, an operational HRA was performed to estimate the Maximum Individual Cancer Risk and the Chronic Hazard Index for residential receptors as a result of project operation including truck trips and truck idling. Results of the operational HRA are presented in Table 2.5-6. The analysis was performed based on a 365-day per year operation. However, the actual operation will not include Sunday of each week, therefore, the following analysis of operational HRA is considered conservative.

**Table 2.5-6**  
**Operational Health Risk Assessment Results - Unmitigated**

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	4.29	10	Less than Significant

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Chronic Hazard Index – Residential	Index Value	0.001	1.0	Less than Significant
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Source: SCAQMD 2019.

Notes: CEQA = California Environmental Quality Act.

See Appendix C.

As shown in Table 2.5-6, project operational activities would result in a Residential Maximum Individual Cancer Risk of 4.29 in 1 million, which would be less than the significance threshold of 10 in 1 million. Project operation would also result in a Residential Chronic Hazard Index of 0.001, which is below the 1.0 significance threshold.

Since the cancer risk from project operation at the maximally exposed individual resident exceeds 1 in a million, cancer burden, for which a SCAQMD significance threshold of 0.5, is evaluated. The maximum estimated for a 70-year cancer risk duration for project operation was estimated at 5.2 in a million with HARP2 using the Population-Wide option in the model, which is specified for use in cancer burden estimates. The total population in the zone of impact area was estimated to be approximately 10,995 persons, based on the average densities of the Census Tracts that would be within the zone of impact (Census Tract 5435.03 and 5438.01) (U.S. Census Bureau 2019). Multiplying the maximum estimated 70-year cancer risk by the project population gives a cancer burden of 0.057. Accordingly, this would be less than the SCAQMD cancer burden threshold of 0.5. Thus, the impact with respect to potential cancer burden due to project operations would be less than significant. The project operation TAC health risk impacts would be **less than significant**.

#### Local Carbon Monoxide Concentrations

At the time that the SCAQMD 1993 Handbook was published, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO. In 2007, the SCAQMD was designated in attainment for CO under both the CAAQS and NAAQS as a result of the steady decline in CO concentrations in the SCAB due to turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities. The SCAQMD conducted CO modeling for the 2003 AQMP (Appendix V: Modeling and Attainment Demonstrations, SCAQMD 2003b) for the four worst-case intersections in the SCAB: (1) Wilshire Boulevard and Veteran Avenue, (2) Sunset Boulevard and Highland Avenue, (3) La Cienega Boulevard and Century Boulevard, and (4) Long Beach Boulevard and Imperial Highway. At the time the 2003 AQMP was prepared, the intersection of Wilshire Boulevard and Veteran Avenue was the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day. Using CO emission factors for 2002, the peak modeled CO 1-hour concentration was estimated to be 4.6 ppm at the intersection of Wilshire Boulevard and Veteran Avenue. When added to the maximum 1-hour CO concentration from 2016 through 2018 at the Webster monitoring station (see Table 3.2-3, Local Ambient Air Quality Data), which was 5 ppm in 2018, the 1-hour CO would be 9.6 ppm, while the CAAQS is 20 ppm.

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The 2003 AQMP also projected 8-hour CO concentrations at these four intersections for 1997 and from 2002 through 2005. From years 2002 through 2005, the maximum 8-hour CO concentration was 3.8 ppm at the Sunset Boulevard and Highland Avenue intersection in 2002; the maximum 8-hour CO concentration was 3.4 ppm at the Wilshire Boulevard and Veteran Avenue in 2002. Adding the 3.8 ppm to the maximum 8-hour CO concentration from 2016 through 2018 at the Webster monitoring station (see Table 3.2-3), which was 2.6 ppm in 2017, the 8-hour CO would be 6.4 ppm, while the CAAQS is 9.0 ppm.

Accordingly, CO concentrations at congested intersections would not exceed the 1-hour or 8-hour CO CAAQS unless projected daily traffic would be at least over 100,000 vehicles per day. Because the Proposed Project would not increase daily traffic volumes at any study intersection to more than 100,000 vehicles per day (Dudek, 2019),<sup>[1]</sup> a CO hotspot is not anticipated to occur and associated impacts would be less than significant.

#### **2.5.4 Threshold AQ-4**

*Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the proposed project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application. Such odors would disperse rapidly from the proposed project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be **less than significant**.

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<sup>[1]</sup> For each study intersection in each scenario evaluated in the TIA, the daily volumes were estimated by assuming that the AM peak hour intersection volumes represent 8% of the daily traffic volumes and the total PM peak hour intersection volumes represent 10% of the daily traffic volumes. Using this method, all 8 study intersections were estimated to result in less than 100,000 vehicles per day in every scenario evaluated (ranging from 18,860 vehicles to 70,230 vehicles).

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Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The proposed project entails operation of a truck yard, which has not been identified by SCAQMD as a land use typically associated with odor complaints. Therefore, the proposed project operations would result in an odor impact that is **less than significant**.

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### **3 GREENHOUSE GAS EMISSIONS**

#### **3.1 Environmental Setting**

##### **3.1.1 Climate Change Overview**

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period (decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system. Many factors, both natural and human, can cause changes in Earth's energy balance, including variations in the sun's energy reaching Earth, changes in the reflectivity of Earth's atmosphere and surface, and changes in the greenhouse effect, which affects the amount of heat retained by Earth's atmosphere (EPA 2017).

The greenhouse effect is the trapping and build-up of heat in the atmosphere (troposphere) near the Earth's surface. The greenhouse effect traps heat in the troposphere through a threefold process as follows: Short-wave radiation emitted by the Sun is absorbed by the Earth, the Earth emits a portion of this energy in the form of long-wave radiation, and GHGs in the upper atmosphere absorb this long-wave radiation and emit it into space and toward the Earth. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature and creates a pleasant, livable environment on the Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The scientific record of the Earth's climate shows that the climate system varies naturally over a wide range of time scales and that, in general, climate changes prior to the Industrial Revolution in the 1700s can be explained by natural causes, such as changes in solar energy, volcanic eruptions, and natural changes in GHG concentrations. Recent climate changes, in particular the warming observed over the past century, however, cannot be explained by natural causes alone. Rather, it is extremely likely that human activities have been the dominant cause of that warming since the mid-twentieth century and is the most significant driver of observed climate change (IPCC 2013; EPA 2017). Human influence on the climate system is evident from the increasing GHG concentrations in the atmosphere, positive radiative forcing, observed warming, and improved understanding of the climate system (IPCC 2013). The atmospheric concentrations of GHGs have increased to levels unprecedented in the last 800,000 years, primarily from fossil fuel emissions and secondarily from emissions associated with land use changes (IPCC 2013). Continued emissions of GHGs will cause further warming and changes in all components of the climate system, which is discussed further in Section 3.3.2, Potential Effects of Climate Change.



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#### 3.1.2 Greenhouse Gases

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code section 38505(g) for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF<sub>6</sub>), and nitrogen trifluoride (NF<sub>3</sub>) (see also 14 CCR 15364.5).<sup>14</sup> Some GHGs, such as CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O are emitted into the atmosphere through natural processes and human activities. Of these gases, CO<sub>2</sub> and CH<sub>4</sub> are emitted in the greatest quantities from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO<sub>2</sub>, include fluorinated gases, such as HFCs, PFCs, and SF<sub>6</sub>, which are associated with certain industrial products and processes. The following paragraphs provide a summary of the most common GHGs and their sources.<sup>15</sup>

**Carbon Dioxide.** CO<sub>2</sub> is a naturally occurring gas and a by-product of human activities and is the principal anthropogenic GHG that affects the Earth's radiative balance. Natural sources of CO<sub>2</sub> include respiration of bacteria, plants, animals, and fungus; evaporation from oceans; volcanic out-gassing; and decomposition of dead organic matter. Human activities that generate CO<sub>2</sub> are from the combustion of fuels such as coal, oil, natural gas, and wood and changes in land use.

**Methane.** CH<sub>4</sub> is produced through both natural and human activities. CH<sub>4</sub> is a flammable gas and is the main component of natural gas. Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion.

**Nitrous Oxide.** N<sub>2</sub>O is produced through natural and human activities, mainly through agricultural activities and natural biological processes, although fuel burning and other processes also create N<sub>2</sub>O. Sources of N<sub>2</sub>O include soil cultivation practices (microbial processes in soil and water), especially the use of commercial and organic fertilizers, manure management, industrial processes (such as in nitric acid production, nylon production, and fossil-fuel-fired power plants), vehicle emissions, and using N<sub>2</sub>O as a propellant (such as in rockets, racecars, and aerosol sprays).

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<sup>14</sup> Climate forcing substances include GHGs and other substances such as black carbon and aerosols. This discussion focuses on the seven GHGs identified in the California Health and Safety Code Section 38505, because impacts associated with other climate forcing substances are not evaluated herein.

<sup>15</sup> The descriptions of GHGs are summarized from the IPCC Fourth Assessment Report (2007), CARB's "Glossary of Terms Used in GHG Inventories" (2018b), and EPA's "Climate Change" (2017).

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**Fluorinated Gases.** Fluorinated gases (also referred to as F-gases) are synthetic powerful GHGs emitted from many industrial processes. Fluorinated gases are commonly used as substitutes for stratospheric O<sub>3</sub>-depleting substances (e.g., CFCs, HCFCs, and halons). The most prevalent fluorinated gases include the following:

- **Hydrofluorocarbons:** HFCs are compounds containing only hydrogen, fluorine, and carbon atoms. HFCs are synthetic chemicals used as alternatives to O<sub>3</sub>-depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are used in manufacturing.
- **Perfluorocarbons:** PFCs are a group of human-made chemicals composed of carbon and fluorine only. These chemicals were introduced as alternatives, with HFCs, to the ozone depleting substances. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Since PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere, these chemicals have long lifetimes, ranging between 10,000 and 50,000 years.
- **Sulfur Hexafluoride:** SF<sub>6</sub> is a colorless gas soluble in alcohol and ether and slightly soluble in water. SF<sub>6</sub> is used for insulation in electric power transmission and distribution equipment, semiconductor manufacturing, the magnesium industry, and as a tracer gas for leak detection.
- **Nitrogen Trifluoride:** NF<sub>3</sub> is used in the manufacture of a variety of electronics, including semiconductors and flat panel displays.

**Chlorofluorocarbons.** CFCs are synthetic chemicals that have been used as cleaning solvents, refrigerants, and aerosol propellants. CFCs are chemically unreactive in the lower atmosphere (troposphere), and the production of CFCs was prohibited in 1987 due to the chemical destruction of stratospheric O<sub>3</sub>.

**Hydrochlorofluorocarbons.** HCFCs are a large group of compounds, whose structure is very close to that of CFCs—containing hydrogen, fluorine, chlorine, and carbon atoms—but including one or more hydrogen atoms. Like HFCs, HCFCs are used in refrigerants and propellants. HCFCs were also used in place of CFCs for some applications; however, their use in general is being phased out.

**Black Carbon.** Black carbon is a component of PM<sub>2.5</sub>, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon

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is a short-lived substance that varies spatially, which makes it difficult to quantify the global warming potential (GWP). Diesel exhaust emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health. In relation to declining DPM as a result of CARB's regulations pertaining to diesel engines, diesel fuels, and burning activities, CARB estimates that annual black carbon emissions in California have reduced by 70% between 1990 and 2010, with 95% control expected by 2020 (CARB 2014).

**Water Vapor.** The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.

**Ozone.** Tropospheric O<sub>3</sub>, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O<sub>3</sub>, which is created by the interaction between solar ultraviolet radiation and molecular oxygen, plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O<sub>3</sub>, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.

**Aerosols.** Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

### **3.1.3 Global Warming Potential**

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the Earth (e.g., affect cloud formation or albedo) (EPA 2017). The Intergovernmental Panel on Climate Change (IPCC) developed the GWP concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO<sub>2</sub>; therefore, GWP-weighted emissions are measured in metric tons of CO<sub>2</sub> equivalent (MT CO<sub>2</sub>e).

The current version of CalEEMod (Version 2016.3.2) assumes that the GWP for CH<sub>4</sub> is 25 (so emissions of 1 MT of CH<sub>4</sub> are equivalent to emissions of 25 MT of CO<sub>2</sub>), and the GWP for N<sub>2</sub>O

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is 298, based on the IPCC's Fourth Assessment Report (IPCC 2007). The GWP values identified in CalEEMod were applied to the project.

### 3.2 Regulatory Setting

#### 3.2.1 Federal Regulations

**Massachusetts v. EPA.** In *Massachusetts v. EPA* (April 2007), the U.S. Supreme Court directed the EPA administrator to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In December 2009, the administrator signed a final rule with the following two distinct findings regarding GHGs under Section 202(a) of the federal Clean Air Act:

- The Administrator found that elevated concentrations of GHGs—CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, and SF<sub>6</sub>—in the atmosphere threaten the public health and welfare of current and future generations. This is the “endangerment finding.”
- The Administrator further found the combined emissions of GHGs—CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is the “cause or contribute finding.”

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the Clean Air Act.

**Energy Independence and Security Act of 2007.** The Energy Independence and Security Act of 2007 (December 2007), among other key measures, would do the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020, and directs National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy-efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

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**Federal Vehicle Standards.** In 2007, in response to the *Massachusetts v. EPA* U.S. Supreme Court ruling, the Bush Administration issued Executive Order (EO) 13432 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011; and, in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016 (75 FR 25324–25728).

In 2010, President Obama issued a memorandum directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams/mile of CO<sub>2</sub> in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021 (77 FR 62624–63200), and NHTSA intends to set standards for model years 2022–2025 in a future rulemaking.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO<sub>2</sub> emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6%–23% over the 2010 baselines (76 FR 57106–57513).

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types of sizes of buses and work trucks. The final standards are expected to lower carbon dioxide emissions by approximately 1.1 billion MT and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

In August 2018, EPA and NHTSA proposed to amend certain fuel economy and GHG standards for passenger cars and light trucks and establish new standards for model years 2021 through 2026. Compared to maintaining the post-2020 standards now in place, the 2018 proposal would increase U.S. fuel consumption by about half a million barrels per day (2–3 % of total daily consumption, according to the Energy Information Administration) and would impact the global climate by

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3/1000th of one degree Celsius by 2100 (EPA and NHTSA 2018). California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives. Thus, the timing and consequences of the 2018 federal proposal are speculative at this time.

On September 27, 2019, EPA and NHTSA published the “Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program.” (84 Fed. Reg. 51,310), which became effective November 26, 2019. The Part One Rule revokes California’s authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. The Part One Rule impacts some of the underlying assumptions in the CARB EMFAC 2014 and EMFAC 2017 models for criteria air pollutant emissions from gasoline light-duty vehicles, which CARB released off-model adjustment factors for on November 20, 2019, primarily for use in federal Clean Air Act conformity demonstration analyses. California expects Part Two of these regulations to be adopted later in Fall 2019. Because CARB does not know the full impacts of these rules until Part Two is released, no off-model adjustments factors are available for GHG emissions at this time. In addition, the EMFAC off-model adjustments have not yet been incorporated into CalEEMod. This issue is evolving as California and 22 other states, as well as the District of Columbia and two cities, filed suit against the EPA over the vehicle waiver revocation on November 15, 2019, and a petition for reconsideration of the rule was filed on November 26, 2019, by California and 22 other states, the District of Columbia, and four cities

### **3.2.2 State Regulations**

The statewide GHG emissions regulatory framework is summarized below by category: state climate change targets, building energy, renewable energy and energy procurement, mobile sources, solid waste, water, and other state regulations and goals. The following text describes executive orders, legislation, regulations, and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues.

#### **State Climate Change Targets**

The state has taken a number of actions to address climate change. These include executive orders, legislation, and CARB plans and requirements. These are summarized below.

**EO S-3-05.** EO S-3-05 (June 2005) established California’s GHG emissions reduction targets and laid out responsibilities among the state agencies for implementing the EO and for reporting on progress toward the targets. This EO established the following targets:

- By 2010, reduce GHG emissions to 2000 levels



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- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80% below 1990 levels

EO S-3-05 also directed the California Environmental Protection Agency to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry. The Climate Action Team was formed, which subsequently issued reports from 2006 to 2010.

**AB 32.** In furtherance of the goals established in EO S-3-05, the Legislature enacted AB 32 (Núñez and Pavley). The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive multiyear program to limit California's GHG emissions at 1990 levels by 2020 and initiate the transformations required to achieve the state's long-range climate objectives.

**EO B-18-12.** EO B-18-12 (April 2012) directed state agencies, departments, and other entities under the governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline. EO B-18-12 also established goals for existing state buildings for reducing grid-based energy purchases and water use.

**EO B-30-15.** EO B-30-15 (April 2015) identified an interim GHG reduction target in support of targets previously identified under S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing GHG emissions to 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05. To facilitate achieving this goal, EO B-30-15 called for CARB to update the Scoping Plan to express the 2030 target in terms of million metric tons (MMT) CO<sub>2</sub>e. The EO also called for state agencies to continue to develop and implement GHG emission reduction programs in support of the reduction targets.

**SB 32 and AB 197.** SB 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40% below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, in order to provide ongoing oversight over implementation of the state's climate policies. AB 197 also added two members of the Legislature to the Board as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and, requires CARB to identify specific information for GHG emissions reduction measures when updating the Scoping Plan.



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**CARB's 2007 Statewide Limit.** In 2007, in accordance with California Health and Safety Code, Section 38550, CARB approved a statewide limit on the GHG emissions level for year 2020 consistent with the determined 1990 baseline (427 MMT CO<sub>2e</sub>).

**CARB's Climate Change Scoping Plan.** One specific requirement of AB 32 is for CARB to prepare a "scoping plan" for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code, Section 38561(a)), and to update the plan at least once every 5 years. In 2008, CARB approved the first scoping plan. The *Climate Change Scoping Plan: A Framework for Change* (Scoping Plan) included a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the state's long-range climate objectives. The key elements of the Scoping Plan include the following (CARB 2008):

1. Expanding and strengthening existing energy efficiency programs as well as building and appliance standards
2. Achieving a statewide renewable energy mix of 33%
3. Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85% of California's GHG emissions
4. Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets
5. Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS; 17 Cal. Code Regs., Section 95480 et seq.)
6. Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation

The Scoping Plan also identified local governments as essential partners in achieving California's goals to reduce GHG emissions because they have broad influence and, in some cases, exclusive authority over activities that contribute to significant direct and indirect GHG emissions through their planning and permitting processes, local ordinances, outreach and education efforts, and municipal operations. Specifically, the Scoping Plan encouraged local governments to adopt a reduction goal for municipal operations and for community emissions to reduce GHGs by approximately 15% from then levels (2008) by 2020. Many local governments

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developed community-scale local GHG reduction plans based on this Scoping Plan recommendation.

In 2014, CARB approved the first update to the Scoping Plan. The *First Update to the Climate Change Scoping Plan: Building on the Framework* (First Update) defined the state's GHG emission reduction priorities for the next 5 years and laid the groundwork to start the transition to the post-2020 goals set forth in EO S-3-05 and EO B-16-2012. The First Update concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuum of action to reduce emissions. The First Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050 including: energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings and industrial machinery; decarbonizing electricity and fuel supplies; and, the rapid market penetration of efficient and clean energy technologies. As part of the First Update, CARB recalculated the state's 1990 emissions level, using more recent global warming potentials identified by the Intergovernmental Panel on Climate Change, from 427 MMT CO<sub>2e</sub> to 431 MMT CO<sub>2e</sub>.

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40% below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80% below 1990 levels by 2050 as set forth in S-3-05. The Governor called on California to pursue a new and ambitious set of strategies, in line with the five climate change pillars from his inaugural address, to reduce GHG emissions and prepare for the unavoidable impacts of climate change. In the summer of 2016, the Legislature affirmed the importance of addressing climate change through passage of Senate Bill 32 (SB 32) (Pavley, Chapter 249, Statutes of 2016).

In December 2017, CARB adopted *California's 2017 Climate Change Scoping Plan* (2017 Scoping Plan) for public review and comment (CARB 2017b). The 2017 Scoping Plan builds on the successful framework established in the initial Scoping Plan and First Update, while identifying new, technologically feasible and cost-effective strategies that will serve as the framework to achieve the 2030 GHG target as established by SB 32 and define the state's climate change priorities to 2030 and beyond. The strategies' known commitments include implementing renewable energy and energy efficiency (including the mandates of SB 350), increased stringency of the LCFS, measures identified in the Mobile Source and Freight Strategies, measures identified in the proposed Short-Lived Climate Pollutant (SLCP) Plan, and increased stringency of SB 375 targets. To fill the gap in additional reductions needed to achieve the 2030 target, it recommends continuing the Cap-and-Trade Program and a measure to reduce GHGs from refineries by 20%.

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For local governments, the 2017 Scoping Plan replaced the initial Scoping Plan's 15% reduction goal with a recommendation to aim for a community-wide goal of no more than 6 MT CO<sub>2</sub>e per capita by 2030 and no more than 2 MT CO<sub>2</sub>e per capita by 2050, which are consistent with the state's long-term goals. These goals are also consistent with the Under 2 Memorandum of Understanding (Under 2 2019) and the Paris Agreement (UNFCCC 2015), which are developed around the scientifically based levels necessary to limit global warming below 2°C. The 2017 Scoping Plan recognized the benefits of local government GHG planning (e.g., through CAPs) and provide more information regarding tools CARB is working on to support those efforts. It also recognizes the CEQA streamlining provisions for project level review where there is a legally adequate CAP.<sup>16</sup>

When discussing project-level GHG emissions reduction actions and thresholds in the context of CEQA, the 2017 Scoping Plan states that “achieving no net additional increase in GHG emissions, resulting in no contribution to GHG impacts, is an appropriate overall objective for new development” for project-level CEQA analysis, but also recognizes that such a standard may not be appropriate or feasible for every development project. The 2017 Scoping Plan further provides that “the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA.”

**CARB's Regulations for the Mandatory Reporting of Greenhouse Gas Emissions.** CARB's Regulation for the Mandatory Reporting of Greenhouse Gas Emissions (17 CCR 95100–95157) incorporated by reference certain requirements that EPA promulgated in its Final Rule on Mandatory Reporting of Greenhouse Gases (40 CFR, Part 98). Specifically, Section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that EPA promulgated in the Federal Register on October 30, 2009, July 12, 2010, September 22, 2010, October 28, 2010, November 30, 2010, December 17, 2010, and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit over 10,000 MT CO<sub>2</sub>e per year are required to report annual GHGs through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MT CO<sub>2</sub>e per year threshold are required to have their GHG emission report verified by a CARB-accredited third party.

**SB 605 and SB 1383.** SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of SLCPs in the state; and SB 1383 (2016) requires CARB to approve and

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<sup>16</sup> *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490; *San Francisco Tomorrow et al. v. City and County of San Francisco* (2015) 229 Cal.App.4th 498; *San Franciscans Upholding the Downtown Specific Plan v. City & County of San Francisco* (2002) 102 Cal.App.4th 656; *Sequoiah Hills Homeowners Assn. V. City of Oakland* (1993) 23 Cal.App.4th 704, 719.

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implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of SLCPs (40% below 2013 levels by 2030 for methane and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its *Short-Lived Climate Pollutant Reduction Strategy (SLCP Reduction Strategy)* in March 2017. The *SLCP Reduction Strategy* establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases (CARB 2017c).

**EO B-55-18.** EO B-55-18 (September 2018) establishes a statewide policy for the state to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. The goal is an addition to the existing statewide targets of reducing the state's GHG emissions. CARB will work with relevant state agencies to ensure that future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.

#### **Building Energy**

**Title 24, Part 6.** Title 24 of the California Code of Regulations was established in 1978 and serves to enhance and regulate California's building standards. While not initially promulgated to reduce GHG emissions, Part 6 of Title 24 specifically established Building Energy Efficiency Standards that are designed to ensure new and existing buildings in California achieve energy efficiency and preserve outdoor and indoor environmental quality. These energy efficiency standards are reviewed every few years by the Building Standards Commission and the California Energy Commission (CEC) (and revised if necessary) (California Public Resources Code, Section 25402(b)(1)). The regulations receive input from members of industry, as well as the public, with the goal of "reducing of wasteful, uneconomic, inefficient, or unnecessary consumption of energy" (California Public Resources Code, Section 25402). These regulations are carefully scrutinized and analyzed for technological and economic feasibility (California Public Resources Code, Section 25402(d)) and cost effectiveness (California Public Resources Code, Sections 25402(b)(2) and (b)(3)). As a result, these standards save energy, increase electricity supply reliability, increase indoor comfort, avoid the need to construct new power plants, and help preserve the environment.

The 2016 Title 24 standards are the currently applicable building energy efficiency standards, and became effective on January 1, 2017. The 2019 Title 24 Building Energy Efficiency Standards, which will be effective January 1, 2020, will further reduce energy used and associated GHG emissions compared to current standards. In general, single-family residences built to the 2019 standards are anticipated to use approximately 7% less energy due to energy efficiency measures than those built to the 2016 standards; once rooftop solar electricity generation is factored in, single-family residences built under the 2019 standards will use approximately 53% less energy than those under the 2016 standards (CEC 2018). Nonresidential buildings built to the 2019

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standards are anticipated to use an estimated 30% less energy than those built to the 2016 standards (CEC 2018).

The 2019 Title 24 standards focus on building energy efficiency and ensuring solar electricity generated on site is used on site. “Looking beyond the 2019 standards, the most important energy characteristic for a building will be that it produces and consumes energy at times that are appropriate and responds to the needs of the grid, which reduces the building’s emissions” (CEC 2018). In furtherance of that characteristic, the 2019 standards require that new homes include solar photovoltaic to meet the home's expected annual electric needs, and also encourage demand-responsive technologies including battery storage, heat-pump water heaters, and improving buildings’ thermal envelopes through high performance attics, walls, and windows. These smarter homes perform better and affect the grid less, which reduces the buildings’ GHG emissions.

**Title 24, Part 11.** In addition to the CEC’s efforts, in 2008, the California Building Standards Commission adopted the nation’s first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CALGreen, and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals. The CALGreen 2016 standards, which are the current standards, became effective January 1, 2017. The CALGreen 2019 standards will continue to improve upon the 2016 CALGreen standards, and will go into effect on January 1, 2020. The mandatory standards require the following (24 CCR, Part 11):

- Mandatory reduction in indoor water use through compliance with specified flow rates for plumbing fixtures and fittings
- Mandatory reduction in outdoor water use through compliance with a local water efficient landscaping ordinance or the California Department of Water Resources’ Model Water Efficient Landscape Ordinance
- 65% of construction and demolition waste must be diverted from landfills
- Mandatory inspections of energy systems to ensure optimal working efficiency
- Inclusion of electric vehicle charging stations or designated spaces capable of supporting future charging stations
- Low-pollutant emitting exterior and interior finish materials, such as paints, carpets, vinyl flooring, and particle boards



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The CALGreen standards also include voluntary efficiency measures that are provided at two separate tiers and implemented at the discretion of local agencies and applicants. CALGreen's Tier 1 standards call for a 15% improvement in energy requirements; stricter water conservation, 65% diversion of construction and demolition waste, 10% recycled content in building materials, 20% permeable paving, 20% cement reduction, and cool/solar-reflective roofs. CALGreen's more rigorous Tier 2 standards call for a 30% improvement in energy requirements, stricter water conservation, 80% diversion of construction and demolition waste, 15% recycled content in building materials, 30% permeable paving, 25% cement reduction, and cool/solar-reflective roofs.

**Title 20.** Title 20 of the California Code of Regulations requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards. New appliances regulated under Title 20 include: refrigerators, refrigerator-freezers and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwaters; clothes washers and dryers; cooking products; electric motors; low voltage dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

**SB 1.** SB 1 (Murray) (August 2006) established a \$3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016. SB 1 added sections to the California Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for both homes and businesses within 10 years of adoption, and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

**AB 1470 (Solar Water Heating).** This bill established the Solar Water Heating and Efficiency Act of 2007. The bill makes findings and declarations of the Legislature relating to the promotion of solar water heating systems and other technologies that reduce natural gas demand. The bill defines several terms for purposes of the act. The bill required the commission to evaluate the data

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available from a specified pilot program, and, if it made a specified determination, to design and implement a program of incentives for the installation of 200,000 solar water heating systems in homes and businesses throughout the state by 2017.

**AB 1109.** Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general-purpose lighting to reduce electricity consumption by 50% for indoor residential lighting and by 25% for indoor commercial lighting.

#### **Renewable Energy and Energy Procurement**

**SB 1078.** SB 1078 (Sher) (September 2002) established the Renewables Portfolio Standard (RPS) program, which required an annual increase in renewable generation by the utilities equivalent to at least 1% of sales, with an aggregate goal of 20% by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20% of their power from renewable sources by 2010 (see SB 107, EO S-14-08, and S-21-09).

**SB 1368.** SB 1368 (September 2006), required CEC to develop and adopt regulations for GHG emission performance standards for the long-term procurement of electricity by local publicly owned utilities. These standards must be consistent with the standards adopted by CPUC.

**EO S-14-08.** EO S-14-08 (November 2008) focused on the contribution of renewable energy sources to meet the electrical needs of California while reducing the GHG emissions from the electrical sector. This EO required that all retail suppliers of electricity in California serve 33% of their load with renewable energy by 2020. Furthermore, the EO directed state agencies to take appropriate actions to facilitate reaching this target. The California Natural Resources Agency (CNRA), through collaboration with CEC and the California Department of Fish and Game (now the California Department of Fish and Wildlife), was directed to lead this effort.

**EO S-21-09 and SB X1-2.** EO S-21-09 (September 2009) directed CARB to adopt a regulation consistent with the goal of EO S-14-08 by July 31, 2010. CARB was further directed to work with CPUC and CEC to ensure that the regulation builds upon the RPS program and was applicable to investor-owned utilities, publicly owned utilities, direct access providers, and community choice providers. Under this order, CARB was to give the highest priority to those renewable resources that provide the greatest environmental benefits with the least environmental costs and impacts on public health and can be developed the most quickly in support of reliable, efficient, cost-effective electricity system operations. On September 23, 2010, CARB initially approved regulations to implement a Renewable Electricity Standard. However, this regulation was not finalized because of subsequent legislation (SB X1-2, Simitian, statutes of 2011) signed by Governor Brown in April 2011.



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SB X1 2 expanded the RPS by establishing a renewable energy target of 20% of the total electricity sold to retail customers in California per year by December 31, 2013, and 33% by December 31, 2020, and in subsequent years. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation (30 megawatts or less), digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location.

SB X1-2 applies to all electricity retailers in the state including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities must meet the renewable energy goals listed above.

**SB 350.** SB 350 (October 2015) further expanded the RPS by establishing a goal of 50% of the total electricity sold to retail customers in California per year by December 31, 2030. In addition, SB 350 included the goal to double the energy efficiency savings in electricity and natural gas final end uses (such as heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency. The bill also requires CPUC, in consultation with CEC, to establish efficiency targets for electrical and gas corporations consistent with this goal.

**SB 100.** SB 100 (2018) increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California. This bill requires that the achievement of 100% zero-carbon electricity resources do not increase the carbon emissions elsewhere in the western grid and that the achievement not be achieved through resource shuffling.

#### **Mobile Sources**

**AB 1493.** AB 1493 (Pavley) (July 2002) was enacted in a response to the transportation sector accounting for more than half of California's CO<sub>2</sub> emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the state board to be vehicles that are primarily used for noncommercial personal transportation in the state. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. When fully phased in, the near-term (2009–2012) standards will result in a reduction of about 22% in

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GHG emissions compared to the emissions from the 2002 fleet, while the mid-term (2013–2016) standards will result in a reduction of about 30%.

**Heavy Duty Diesel.** CARB adopted the final Heavy Duty Truck and Bus Regulation, Title 13, Division 3, Chapter 1, Section 2025, on December 31, 2014 to reduce DPM (black carbon) and NO<sub>x</sub> emissions from heavy-duty diesel vehicles. The rule requires DPM filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule will require nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an Airborne Toxic Control Measure to limit idling of diesel-fueled commercial vehicles on December 12, 2013. This rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than 5 minutes at any location (13 CCR 2485).

**EO S-1-07.** EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining LCFS for GHG emissions measured in CO<sub>2</sub>e grams per unit of fuel energy sold in California. The target of the LCFS is to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel, including extraction/feedstock production, processing, transportation, and final consumption, per unit of energy delivered.

**SB 375.** SB 375 (Steinberg) (September 2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035 and to update those targets every 8 years. SB 375 requires the state's 18 regional metropolitan planning organizations (MPOs) to prepare a sustainable communities strategy (SCS) as part of their regional transportation plan (RTP) that will achieve the GHG reduction targets set by CARB. If a MPO is unable to devise an SCS to achieve the GHG reduction target, the MPO must prepare an alternative planning strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

Pursuant to California Government Code, Section 65080(b)(2)(K), an SCS does not (1) regulate the use of land, (2) supersede the land use authority of cities and counties, or (3) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it. Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

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On September 23, 2010, CARB adopted the SB 375 targets for the regional MPOs. CARB set a target of 7% per capita reduction by 2020 and a 15% per capita reduction by 2035 for the Bay Area. The Metropolitan Transportation Commission (MTC), which is the MPO for the Bay Area, as well as the Association of Bay Area Governments (ABAG), adopted the *Plan Bay Area 2040* in July 2017 (MTC and ABAG 2017), which is the RTP/SCS for the Bay Area. The *Plan Bay Area 2040* is a long-range plan for transportation projects within the planning area and established 13 performance targets to achieve the following goals/outcomes: Climate Protection, Adequate Housing, Healthy and Safe Communities, Open Space and Agricultural Preservation, Equitable Access, Economic Vitality, and Transportation System Effectiveness. Two of these targets are mandatory to comply with SB 375, and the *Plan Bay Area 2040* exceeds the 15% reduction per capita in GHG emissions from light-trucks and cars by 2035 (Climate Protection Goal), and plans to house 100% of the region's projected growth (from a 2010 baseline year) by income level without displacing current low-income residents and with no increase in in-commuters (Adequate Housing Goal).

**Advanced Clean Cars Program and Zero-Emissions Vehicle Program.** The Advanced Clean Cars program (January 2012) is a new emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars (CARB 2012). To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75% less smog-forming pollution than the average new car sold today. To reduce GHG emissions, CARB, in conjunction with EPA and NHTSA, adopted new GHG standards for model year 2017 to 2025 vehicles; the new standards are estimated to reduce GHG emissions by 34% in 2025. The Zero-Emissions Vehicle (ZEV) program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018 to 2025 model years.

**EO B-16-12.** EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of ZEVs. It ordered CARB, CEC, CPUC, and other relevant agencies to work with the Plug-In Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve benchmark goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050. This directive did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare.

**AB 1236.** AB 1236 (October 2015) (Chiu) required a city, county, or city and county to approve an application for the installation of electric vehicle charging stations, as defined, through the

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issuance of specified permits unless the city or county makes specified written findings based upon substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and there is no feasible method to satisfactorily mitigate or avoid the specific, adverse impact. The bill provided for appeal of that decision to the planning commission, as specified. The bill provided that the implementation of consistent statewide standards to achieve the timely and cost-effective installation of electric vehicle charging stations is a matter of statewide concern. The bill required electric vehicle charging stations to meet specified standards. The bill required a city, county, or city and county with a population of 200,000 or more residents to adopt an ordinance, by September 30, 2016, that created an expedited and streamlined permitting process for electric vehicle charging stations, as specified. The bill also required a city, county, or city and county with a population of less than 200,000 residents to adopt this ordinance by September 30, 2017.

#### **Water**

**EO B-29-15.** In response to the ongoing drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives have become permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the state. In response to EO B-29-15, the California Department of Water Resources has modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

**EO B-37-16.** Issued May 2016, EO B-37-16 directs the State Water Resources Control Board (Water Board) to adjust emergency water conservation regulations through the end of January 2017 to reflect differing water supply conditions across the state. The Water Board must also develop a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The Water Board and Department of Water Resources will develop new, permanent water use targets that build upon the existing state law requirements that the state achieve 20% reduction in urban water usage by 2020. EO B-37-16 also specifies that the Water Board will permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.

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**EO B-40-17.** EO B-40-17 (April 2017) lifted the drought emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne. It also rescinds EO B-29-15, but expressly states that EO B-37-16 remains in effect and directs the Water Board to continue development of permanent prohibitions on wasteful water use.

#### **Solid Waste**

**AB 939 and AB 341.** In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code, Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by the year 2000.

AB 341 (Chapter 476, Statutes of 2011 (Chesbro)) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by the year 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal.

#### **Other State Actions**

**SB 97.** SB 97 (Dutton) (August 2007) directed the Governor's Office of Planning and Research (OPR) to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, the OPR issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities (OPR 2008). The advisory further recommended that the lead agency determine significance of the impacts and impose all mitigation measures necessary to reduce GHG emissions to a level that is less than significant. CNRA adopted the CEQA Guidelines amendments in December 2009, and they became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4(a)). The CEQA Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the



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reduction or mitigation of GHG emissions (14 CCR 15064.4(b)). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures. The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. CNRA also acknowledges that a lead agency may consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009a).

With respect to GHG emissions, the CEQA Guidelines state that lead agencies should “make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate” GHG emissions (14 CCR 15064.4(a)). The CEQA Guidelines note that an agency may identify emissions by either selecting a “model or methodology” to quantify the emissions or by relying on “qualitative analysis or other performance based standards” (14 CCR 15064.4(a)). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4(b)).

**EO S-13-08.** EO S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs state agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009 (CNRA 2009b), and an update, *Safeguarding California: Reducing Climate Risk*, followed in July 2014 (CNRA 2014). To assess the state's vulnerability, the report summarizes key climate change impacts to the state for the following areas: Agriculture, Biodiversity and Habitat, Emergency Management, Energy, Forestry, Ocean and Coastal Ecosystems and Resources, Public Health, Transportation, and Water. Issuance of the *Safeguarding California: Implementation Action Plans* followed in March 2016 (CNRA 2016). In January 2018, the CNRA released the *Safeguarding California Plan: 2018 Update*, which communicates current and needed actions that state government should take to build climate change resiliency (CNRA 2018).

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### **3.2.3 Local Regulations**

#### **3.2.3.1 South Coast Air Quality Management District**

Air districts typically act in an advisory capacity to local governments in establishing the framework for environmental review of air pollution impacts under CEQA. This may include recommendations regarding significance thresholds, analytical tools to estimate emissions and assess impacts, and mitigations for potentially significant impacts. Although air districts will also address some of these issues on a project-specific basis as responsible agencies, they may provide general guidance to local governments on these issues (SCAQMD 2008). As discussed in Section 3.4.1, Thresholds of Significance, SCAQMD has recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects; however, these thresholds were not adopted. See Section 2.2.3.1, South Coast Air Quality Management District, for additional discussion on SCAQMD.

#### **3.2.3.2 Southern California Association of Governments**

SB 375 requires MPOs to prepare an SCS in their RTP. The SCAG Regional Council adopted the 2012 RTP/SCS in April 2012 (SCAG 2012), and the 2016–2040 RTP/SCS (2016 RTP/SCS) was adopted in April 2016. Both the 2012 and 2016 RTP/SCSs establish a development pattern for the region that, when integrated with the transportation network and other policies and measures, would reduce GHG emissions from transportation (excluding goods movement). Specifically, the 2012 RTP/SCS links the goals of sustaining mobility with the goals of fostering economic development; enhancing the environment; reducing energy consumption; promoting transportation-friendly development patterns; and encouraging all residents affected by socioeconomic, geographic, and commercial limitations to be provided with fair access. The 2012 and 2016 RTP/SCSs do not require that local general plans, specific plans, or zoning be consistent with it but provide incentives for consistency for governments and developers. Because the current SCAQMD AQMP (2012 AQMP) is based on the SCAG 2012 RTP/SCS demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by SCAG for their 2012–2035 RTP/SCS, the SCAG 2012 RTP/SCS is discussed in Section 3.4, Significance Criteria and Methodology. See Section 2.2.3.2, Southern California Association of Governments, for an additional discussion on SCAG.

#### **3.2.3.3 South Bay Cities Council of Governments**

The South Bay Cities Council of Governments (SBCCOG) is a joint powers authority of 16 cities and the County of Los Angeles that share the goal of maximizing the quality of life and productivity of the South Bay area. The SBCCOG has been working on climate action planning since 2008, employing a subregional approach to the management and coordination of climate



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action planning to assist its cities in complying with legislation such as AB 32 and SB 375. The SBCCOG completed the South Bay Sustainable Strategy to address land use and mobility in an area that is transit poor. While the SBCCOG does not intend to produce an SCS, it hopes to use its South Bay Sustainable Strategy as a guide to develop a scenario-planning model that will allow the SBCCOG to independently plan and evaluate its member cities' development scenarios. This approach will supplement the regional SCS with a concrete tool to demonstrate a strategy that best fits the conditions in the South Bay to SCAG, the Los Angeles County Metropolitan Transportation Authority, and the South Bay cities' planning staffs.

#### **3.2.3.4 City of Carson**

In 2017, the City of Carson, in cooperation with the South Bay Cities Council of Governments (SBCCOG), developed an unqualified Climate Action Plan (CAP). The CAP serves as a guide for action by setting GHG emission reductions goals and establishes strategies and policy to achieve outcomes over the preceding 20 years. The CAP identifies strategies in the following select areas.

- Land Use and Transportation - Facilitate pedestrian and neighborhood development and identify ways to reduce automobile emissions including supporting zero emission vehicle infrastructure, improving pedestrian and bicycle infrastructure, enhancing public transit service, and supporting reductions in single-occupancy vehicle use.
- Energy Efficiency - Emphasize energy efficiency retrofits for existing buildings, energy performance requirements for new construction, water efficient landscaping, financing programs that will allow home and business owners to obtain low-interest loans for implementing energy efficiency in their buildings.
- Solid Waste - Focus on increasing waste diversion and encouraging participation in recycling and composting throughout the community.
- Urban Greening - Contain measures that create "carbon sinks" as they store GHG emissions that are otherwise emitted into the atmosphere as well as support health of the community.
- Energy Generation & Storage - Demonstrate the City's commitment to support the implementation of clean, renewable energy while decreasing dependence on traditional, GHG emitting power sources.

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As described in the CAP, the five categories identified above, have the potential to reduce approximately 256,741 MT CO<sub>2</sub>e emissions per year and accomplish the City's reduction targets of 15% below 2005 by 2020 and 49% below 2005 by 2035.

### 3.3 Greenhouse Gas Inventories and Climate Change Conditions

#### 3.3.1 Sources of Greenhouse Gas Emissions

##### *Global Inventory*

Anthropogenic GHG emissions worldwide in 2017 (the most recent year for which data is available) totaled approximately 50,860 MMT of CO<sub>2</sub>e, excluding land use change and forestry (PBL 2018). Six countries—China, the United States, the Russian Federation, India, Japan, and Brazil—and the European community accounted for approximately 65% of the total global emissions, or approximately 33,290 MMT CO<sub>2</sub>e (PBL 2018). Table 3.3-1 presents the top GHG-emissions-producing countries.

**Table 3.3-1**  
**Six Top Greenhouse Gas Producer Countries and the European Union**

Emitting Countries (listed in order of emissions)	Greenhouse Gas Emissions (MMT CO <sub>2</sub> e)
China	13,530
United States	6,640
European Union	4,560
India	3,650
Russian Federation	2,220
Japan	1,490
Brazil	1,200
Total	33,290

Source: PBL 2018.

Note: MMT CO<sub>2</sub>e = million metric tons of carbon dioxide equivalent.

##### *National and State Inventories*

Per the EPA's *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2017*, total U.S. GHG emissions were approximately 6,457 MMT CO<sub>2</sub>e in 2017 (EPA 2019). The largest source of CO<sub>2</sub>, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 93.2% of CO<sub>2</sub> emissions in 2017 (4,912.0 MMT CO<sub>2</sub>e). Relative to the 1990 emissions level, gross U.S. GHG emissions in 2017 were 1.3% higher; however, the gross emissions are down from a high of 15.7% above the 1990 level that occurred in 2007. GHG

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emissions decreased from 2016 to 2017 by 0.5% (35.5 MMT CO<sub>2</sub>e) and, overall, net emissions in 2017 were 13% below 2005 levels (EPA 2019).

According to California's 2000–2016 GHG emissions inventory (2018 edition), California emitted 429.4 MMT CO<sub>2</sub>e in 2016, including emissions resulting from out-of-state electrical generation (CARB 2018c). The sources of GHG emissions in California include transportation, industrial uses, electric power production from both in-state and out-of-state sources, commercial and residential uses, agriculture, high global-warming potential substances, and recycling and waste. The California GHG emission source categories (as defined in CARB's 2008 Scoping Plan) and their relative contributions in 2016 are presented in Table 3.3-2.

**Table 3.3-2**  
**Greenhouse Gas Emissions Sources in California**

Source Category	Annual GHG Emissions (MMT CO <sub>2</sub> e)	Percent of Total <sup>a</sup>
Transportation	169.38	39%
Industrial uses <sup>b</sup>	89.61	21%
Electricity generation <sup>c</sup>	68.58	16%
Residential and commercial uses	39.36	9%
Agriculture	33.84	8%
High GWP substances	19.78	5%
Recycling and waste	8.81	2%
Totals	429.40	100%

Source: CARB 2018c.

Notes: GHG = greenhouse gas; MMT CO<sub>2</sub>e = million metric tons of carbon dioxide equivalent; GWP = global warming potential.

Emissions reflect 2016 California GHG inventory.

<sup>a</sup> Percentage of total has been rounded and total may not sum due to rounding.

<sup>b</sup> The Aliso Canyon natural gas leak event released 1.96 MMT CO<sub>2</sub>e of unanticipated emissions in 2015 and 0.53 MMT CO<sub>2</sub>e in 2016. These leak emissions will be fully mitigated according to legal settlement and are tracked separately from routine inventory emissions.

<sup>c</sup> Includes emissions associated with imported electricity, which account for 26.28 MMT CO<sub>2</sub>e.

Between 2000 and 2016, per capita GHG emissions in California have dropped from a peak of 14.0 MT per person in 2001 to 10.8 MT per person in 2016, representing a 23% decrease. In addition, total GHG emissions in 2016 were approximately 12 MMT CO<sub>2</sub>e less than 2015 emissions. The declining trend in GHG emissions, coupled with programs that will continue to provide additional GHG reductions going forward, demonstrates that California will continue to reduce emissions below the 2020 target of 431 MT CO<sub>2</sub>e (CARB 2018c).

### 3.3.2 Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. The 2014 *Intergovernmental Panel on Climate Change Synthesis Report* (IPCC 2014) indicated that

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warming of the climate system is unequivocal, and since the 1950s, many of the observed changes are unprecedented over decades to millennia. Signs that global climate change has occurred include warming of the atmosphere and ocean, diminished amounts of snow and ice, and rising sea levels (IPCC 2014).

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, and electricity demand and supply (CCCC 2006). The primary effect of global climate change has been a 0.2°C rise in average global tropospheric temperature per decade, determined from meteorological measurements worldwide between 1990 and 2005. Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. A warming of about 0.2°C (0.36°F) per decade is projected, and there are identifiable signs that global warming could be taking place.

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The average temperatures in California have increased, leading to more extreme hot days and fewer cold nights. Shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year. Sea levels have risen, and wildland fires are becoming more frequent and intense due to dry seasons that start earlier and end later (CAT 2010).

An increase in annual average temperature is a reasonably foreseeable effect of climate change. Observed changes over the last several decades across the western United States reveal clear signals of climate change. Statewide average temperatures increased by about 1.7°F from 1895 to 2011, and warming has been greatest in the Sierra Nevada (CCCC 2012). By 2050, California is projected to warm by approximately 2.7°F above 2000 averages, a threefold increase in the rate of warming over the last century. By 2100, average temperatures could increase by 4.1°F to 8.6°F, depending on emissions levels. Springtime warming—a critical influence on snowmelt—will be particularly pronounced. Summer temperatures will rise more than winter temperatures, and the increases will be greater in inland California, compared to the coast. Heat waves will be more frequent, hotter, and longer. There will be fewer extremely cold nights (CCCC 2012). A decline of Sierra Nevada snowpack, which accounts for approximately half of the surface water storage in California, by 30% to as much as 90% is predicted over the next 100 years (CAT 2006).

Model projections for precipitation over California continue to show the Mediterranean pattern of wet winters and dry summers with seasonal, year-to-year, and decade-to-decade variability. For the first time, however, several of the improved climate models shift toward drier conditions by the mid-to-late twenty-first century in central, and most notably, Southern California. By the late

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century, all projections show drying, and half of them suggest 30-year average precipitation will decline by more than 10% below the historical average (CCCC 2012).

A summary of current and future climate change impacts to resource areas in California, as discussed in *Safeguarding California: Reducing Climate Risk* (CNRA 2014), is provided below.

**Agriculture.** Some of the specific challenges faced by the agricultural sector and farmers include more drastic and unpredictable precipitation and weather patterns; extreme weather events that range from severe flooding to extreme drought, to destructive storm events; significant shifts in water availability and water quality; changes in pollinator lifecycles; temperature fluctuations, including extreme heat stress and decreased chill hours; increased risks from invasive species and weeds, agricultural pests, and plant diseases; and disruptions to the transportation and energy infrastructure supporting agricultural production.

**Biodiversity and Habitat.** Specific climate change challenges to biodiversity and habitat include species migration in response to climatic changes, range shift, and novel combinations of species; pathogens, parasites, and disease; invasive species; extinction risks; changes in the timing of seasonal life-cycle events; food web disruptions; and threshold effects (i.e., a change in the ecosystem that results in a “tipping point” beyond which irreversible damage or loss has occurs).

**Energy.** Specific climate change challenges for the energy sector include temperature, fluctuating precipitation patterns, increasing extreme weather events, and sea level rise.

**Forestry.** The most significant climate change related risk to forests is accelerated risk of wildfire and more frequent and severe droughts. Droughts have resulted in more large-scale mortalities and, combined with increasing temperatures, have led to an overall increase in wildfire risks. Increased wildfire intensity subsequently increases public safety risks, property damage, fire suppression and emergency response costs, watershed and water quality impacts, and vegetation conversions.

**Ocean and Coastal Ecosystems and Resources.** Sea level rise, changing ocean conditions, and other climate change stressors are likely to exacerbate long-standing challenges related to ocean and coastal ecosystems in addition to threatening people and infrastructure located along the California coastline and in coastal communities. Sea level rise, in addition to more frequent and severe coastal storms and erosion, is threatening vital infrastructure such as roads, bridges, power plants, ports and airports, gasoline pipes, and emergency facilities, as well as negatively impacting the coastal recreational assets such as beaches and tidal wetlands.

**Public Health.** Climate change can impact public health through various environmental changes and is the largest threat to human health in the twenty-first century. Changes in precipitation

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patterns affect public health primarily through potential for altered water supplies, and extreme events such as heat, floods, droughts, and wildfires. Increased frequency, intensity, and duration of extreme heat and heat waves are likely to increase the risk of mortality due to heat-related illness as well as exacerbating existing chronic health conditions. Other extreme weather events are likely to negatively impact air quality and increase or intensify respiratory illnesses such as asthma and allergies.

**Transportation.** While the transportation industry is a source of GHG emissions, it is also vulnerable to climate change risks. Increasing temperatures and extended periods of extreme heat threaten the integrity of the roadways and rail lines. High temperatures cause the road surfaces to expand which leads to increased pressure and pavement buckling. High temperatures can also cause rail breakages, which could lead to train derailment. Other forms of extreme weather events, such as extreme storm events, can negatively impact infrastructure, which can impair movement of peoples and goods or potentially block evacuation routes and emergency access roads. Increased wildfires, flooding, erosion risks, landslides, mudslides, and rockslides can all profoundly impact the transportation system and pose a serious risk to public safety.

**Water.** Climate change could seriously impact the timing, form, and amount of precipitation; runoff patterns; and frequency and severity of precipitation events. Higher temperatures reduce the amount of snowpack and lead to earlier snowmelt, which can impact water supply availability, natural ecosystems, and winter recreation. Water supply availability during the intense dry summer months is heavily dependent on the snowpack accumulated during the wintertime. Increased risk of flooding can lead to a variety of public health concerns, including concerns related to water quality, public safety, property damage, displacement, and post-disaster mental health problems. Prolonged and intensified droughts can also negatively affect groundwater reserves and result in increased overdraft and subsidence. The higher risk of wildfires can lead to increased erosion, which can negatively impact watersheds and result in poor water quality.

In March 2016, the CNRA released *Safeguarding California: Implementation Action Plans*, a document that shows how California is acting to convert the recommendations contained in the 2014 *Safeguarding California* plan into action (CNRA 2016). Additionally, the CNRA released *Safeguarding California Plan: 2018 Update* in January 2018, which provides a roadmap for state agencies to protect communities, infrastructure, services, and the natural environment from climate change impacts. The 2018 Safeguarding California Plan includes 69 recommendations across 11 sectors and more than 1,000 ongoing actions and next steps developed by scientific and policy experts across 38 state agencies (CNRA 2018). As with previous state adaptation plans, the 2018 Update addresses the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent



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drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming.

### **3.4 Significance Criteria and Methodology**

#### **3.4.1 Thresholds of Significance**

The significance criteria used to evaluate the project's GHG emissions impacts are based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the proposed project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated at a project level under CEQA.

The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009a). The State of California has not adopted emission-based thresholds for GHG emissions under CEQA. The Governor's Office of Planning and Research's Technical Advisory titled "CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act Review" states that "public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact" (OPR 2008). Furthermore, the advisory document indicates that "in the absence of



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regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a ‘significant impact,’ individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice.” Section 15064.7(c) of the CEQA Guidelines specifies that “when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence.”

As described in Section 3.2.3, Local Regulations, the City has adopted a CAP to reduce GHG emissions within the City. However, as described below, it is not a qualified CAP that can be used to tier from for CEQA purposes (City of Carson and SBCCOG 2017):

Within the CEQA process, a qualified CAP framework offers the ability to streamline future CEQA greenhouse gas analyses by being able to tier off the climate action plan. Depending on local factors, such as anticipated levels of development, a qualified CAP is not necessary and agencies would continue to utilize the framework for informing the selection and evaluation of climate planning strategies within the local context. The South Bay Cities Council of Governments CAP framework is unqualified, and offers cities a planning tool with optional strategies. The analysis and optional strategies in the CAP can be used in the future, by way of example, to help create a Qualified Climate Reduction Strategy under CEQA, to create GHG thresholds to be used in CEQA analysis and can be used to update the City’s General Plan.

Thus, the City CAP cannot be used to tier from for this analysis. As such, to address Threshold GHG-1, this analysis assesses compliance with applicable laws and regulations, as well as uses the SCAQMD recommended (not adopted) numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects.

In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold* (SCAQMD 2008). This guidance document, which builds on the previous guidance prepared by the California Air Pollution Control Officers Association, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000

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MT CO<sub>2</sub>e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (see SCAQMD Resolution No. 08-35, December 5, 2008).

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land use development projects. The most recent proposal, issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

- Tier 1** Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.
- Tier 2** Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.
- Tier 3** Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO<sub>2</sub>e per year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO<sub>2</sub>e per year), commercial projects (1,400 MT CO<sub>2</sub>e per year), and mixed-use projects (3,000 MT CO<sub>2</sub>e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO<sub>2</sub>e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.
- Tier 4** Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of AB 32 to reduce statewide GHG emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MT CO<sub>2</sub>e per service population for project level analyses and 6.6 MT CO<sub>2</sub>e per service population for plan level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.
- Tier 5** Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

This analysis applies the SCAQMD screening threshold of 3,000 MT CO<sub>2</sub>e per year for all non-industrial projects. Per the SCAQMD guidance, construction emissions should be amortized over

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the operational life of the project, which is assumed to be 30 years (SCAQMD 2008). This impact analysis, therefore, adds amortized construction emissions to the estimated annual operational emissions and then compares operational emissions to the proposed SCAQMD threshold of 3,000 MT CO<sub>2e</sub> per year.

#### **3.4.2 Approach and Methodology**

##### **3.4.2.1 Construction Emissions**

CalEEMod Version 2016.3.2 was used to estimate potential project-generated GHG emissions during construction. Construction of the project would result in GHG emissions primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. All details for construction criteria air pollutants discussed in Section 2.4.2.1, Construction Emissions, are also applicable for the estimation of construction-related GHG emissions. As such, see Section 2.4.2.1 for a discussion of construction emissions calculation methodology and assumptions.

##### **3.4.2.2 Operational Emissions**

CalEEMod Version 2016.3.2 was used to estimate potential project-generated operational GHG emissions from area sources (natural gas combustion and landscape maintenance), electrical generation (including electrical generation associated with water supply and wastewater treatment), and solid waste. Emissions from the mobile sources during operation of the proposed project were estimated using a spreadsheet-based model and emissions factors from the CARB EMFAC2017.

Emissions from each category—area sources, energy sources, mobile sources, solid waste, and water supply and wastewater treatment—is discussed in the following text with respect to the proposed project. For additional details, see Section 3.3 for a discussion of operational emission calculation methodology and assumptions, specifically for mobile sources. Operational year 2021 was assumed to be the first full year of operation following completion of construction.

#### **Area Sources**

CalEEMod was used to estimate GHG emissions from the project's area sources, which include operation of gasoline-powered landscape maintenance equipment, which produce minimal GHG emissions. See Section 2.4.2.2 for a discussion of landscaping equipment emissions calculations. Consumer product use and architectural coatings result in VOC emissions, which are analyzed in air quality analysis only, and little to no GHG emissions.

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### **Energy Sources**

The estimation of operational energy emissions was based on CalEEMod land use defaults and units or total area (i.e., square footage) of the proposed project's land uses. For nonresidential buildings, CalEEMod energy intensity value (electricity or natural gas usage per square foot per year) assumptions were based on the California Commercial End-Use Survey database. Emissions are calculated by multiplying the energy use by the utility carbon intensity (pounds of GHGs per kilowatt-hour for electricity or 1,000 British thermal units for natural gas) for CO<sub>2</sub> and other GHGs. Annual natural gas (non-hearth) and electricity emissions were estimated in CalEEMod using the emissions factors for Southern California Edison (SCE), which would be the energy source provider for the proposed project. CalEEMod default energy intensity factors (CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O mass emissions per kilowatt-hour) for SCE is based on the value for SCE's energy mix in 2012, adjusted based on SCE 2017 Power Content Label.

### **Mobile Sources**

All details for criteria air pollutants discussed in Section 3.3 are also applicable for the estimation of operational mobile source GHG emissions. The analysis was performed based on a 365-day per year operation. However, the actual operation will not include Sunday of each week; therefore, the following GHG emission analysis is conservative.

Regulatory measures related to mobile sources include Assembly Bill (AB) 1493 (Pavley) and related federal standards. AB 1493 required that CARB establish GHG emission standards for automobiles, light-duty trucks, and other vehicles determined by CARB to be vehicles that are primarily used for noncommercial personal transportation in the state. In addition, the National Highway Safety Administration (NHTSA) and EPA have established corporate fuel economy standards and GHG emission standards, respectively, for automobiles and light-, medium-, and heavy-duty vehicles. Implementation of these standards and fleet turnover (replacement of older vehicles with newer ones) will gradually reduce emissions from the proposed project's motor vehicles. The effectiveness of fuel economy improvements was evaluated for motor vehicles in 2021 to the extent it was captured in EMFAC2017. In addition, the Low Carbon Fuel Standard calls for a 10% reduction in the "carbon intensity" of motor vehicle fuels by 2020.

### **Solid Waste**

The project would generate solid waste, and therefore, result in CO<sub>2e</sub> emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

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### **Water and Wastewater**

Supply, conveyance, treatment, and distribution of water for the project require the use of electricity, which would result in associated indirect GHG emissions. Similarly, wastewater generated by the project requires the use of electricity for conveyance and treatment, along with GHG emissions generated during wastewater treatment. Water consumption estimates for both indoor and outdoor water use and associated electricity consumption from water use and wastewater generation were estimated using CalEEMod default values.

## **3.5 Impact Analysis**

### **3.5.1 Threshold GHG-1**

*Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?*

#### **Construction Emissions**

Construction of the project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor trucks, and worker vehicles. The SCAQMD *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold* (2008) recommends that, “construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies.” Thus, the total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions for comparison with the GHG significance threshold of 3,000 MT CO<sub>2</sub>e per year. Therefore, the determination of significance is addressed in the operational emissions discussion following the estimated construction emissions.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 2.4.2.1. Construction of the project is anticipated last a total of approximately 12 months. On-site sources of GHG emissions include off-road equipment and off-site sources including vendor trucks and worker vehicles. Table 3.5-1 presents construction emissions for the project from on-site and off-site emission sources

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**Table 3.5-1**  
**Estimated Annual Construction Greenhouse Gas Emissions**

Construction Year	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
	<i>Metric Tons per Year</i>			
2020	307.38	0.07	0.00	309.21
Total	307.38	0.07	0.00	309.21
<i>Amortized construction emissions</i>				<i>10.31</i>

Source: Appendix A.

Notes: CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalent.

Total emissions may not sum due to rounding.

As shown in Table 3.5-1, the estimated total GHG emissions during construction of would be approximately 309 MT CO<sub>2</sub>e over the construction period. Estimated project-generated construction emissions amortized over 30 years would be approximately 10.31 MT CO<sub>2</sub>e per year. As with project-generated construction criteria air pollutant emissions, GHG emissions generated during construction of the project would be short term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions. Because there is no separate GHG threshold for construction, the evaluation of significance is discussed in the operational emissions analysis in the following text.

### Operational Emissions

Operation of the project would generate GHG emissions through motor vehicle trips to and from the project site; landscape maintenance equipment operation; energy use (natural gas and generation of electricity consumed by the project); natural gas-fueled emergency generator maintenance and testing; solid waste disposal; and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment. CalEEMod was used to calculate the annual GHG emissions based on the operational assumptions described in Section 3.4.2.2, Operational Emissions.

The estimated operational project-generated GHG emissions from area sources, energy usage, motor vehicles, natural gas emergency generator stationary sources, solid waste generation, and water usage and wastewater generation are shown in Table 3.5-2.



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**Table 3.5-2**  
**Estimated Annual Operational Greenhouse Gas Emissions**

Emission Source	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
	<i>Metric Tons per Year</i>			
Area	<0.01	0.00	0.00	<0.01
Energy	161.52	0.01	<0.01	162.19
Mobile	1,134.64	0.05	0.09	1,162.43
Solid waste	10.08	0.60	0.00	24.98
Water supply and wastewater	41.9	0.3	0.01	51.67
<b>Total</b>	<b>1,348.14</b>	<b>0.096</b>	<b>0.10</b>	<b>1,401.27</b>
<i>Amortized construction emissions</i>				<i>10.31</i>
<b>Total operational + amortized construction GHGs</b>				<b>1,411.58</b>

Source: Appendix A and B.

Notes: GHG = greenhouse gas; CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalent.

These emissions reflect operational year 2021.

As shown in Table 3.5-2, estimated annual project-generated GHG emissions would be approximately 1,401 MT CO<sub>2</sub>e per year as a result of project operations only. After summing the amortized project construction emissions, total GHGs generated by the project would be approximately 1,412 MT CO<sub>2</sub>e per year. As such, annual operational GHG emissions with amortized construction emissions would not exceed the SCAQMD threshold of 3,000 MT CO<sub>2</sub>e per year. Therefore, the project's GHG contribution would not be cumulatively considerable and is less than significant.

### 3.5.2 Threshold GHG-2

***Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?***

#### **Project Consistency with the Scoping Plan**

As discussed in Section 3.2.2, the Scoping Plan (approved by CARB in 2008 and updated in 2014 and 2017) provides a framework for actions to reduce California's GHG emissions and requires CARB and other state agencies to adopt regulations and other initiatives to reduce GHGs. The Scoping Plan is not directly applicable to specific projects, nor is it intended to be used for project-level evaluations.<sup>17</sup> Under the Scoping Plan, however, there are several state regulatory measures aimed at the identification and reduction of GHG emissions. CARB and other state

<sup>17</sup> The Final Statement of Reasons for the amendments to the CEQA Guidelines reiterates the statement in the Initial Statement of Reasons that "[t]he Scoping Plan may not be appropriate for use in determining the significance of individual projects because it is conceptual at this stage and relies on the future development of regulations to implement the strategies identified in the Scoping Plan" (CNRA 2009a).

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

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agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures focus on area source emissions (e.g., energy usage, high-GWP GHGs in consumer products) and changes to the vehicle fleet (i.e., hybrid, electric, and more fuel-efficient vehicles) and associated fuels (e.g., LCFS), among others.

The Scoping Plan recommends strategies for implementation at the statewide level to meet the goals of AB 32 and establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions. To the extent that these regulations are applicable to the project, its inhabitants, or uses, the project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent required by law.

### Compliance with Applicable Laws and Regulations

Table 15 identifies laws and regulations currently in effect that reduce project-related GHG emissions. Because GHG laws and regulations continue to expand under California's climate leadership efforts, including most recently the enactment of SB 100 (2018), Table 3.5-3 presents a snapshot of these GHG laws and regulations. Since additional GHG laws and regulations are likely to apply, and listed laws and regulations are likely to continue to evolve, the scope of GHG laws and regulations applicable to GHG-emissions related to the project is anticipated to expand over time and result in lower-than-predicted GHG emissions.

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
<i>Building Components/Facility Operations</i>		
Roofs/Ceilings/Insulation	California Energy Code (Title 24, Part 6)	The project must comply with efficiency standards regarding roofing, ceilings, and insulation (See Title 24, Part 6 Compliance Manual at Section 3.2.2.)
Flooring	CALGreen Code (Title 24, Part 11)	The project must comply with efficiency standards regarding flooring materials. For example, for 80% of floor area receiving "resilient flooring," the flooring must meet applicable installation and material requirements contained in CALGreen Code Section 5.504.4.6.
Windows and Doors (Fenestration)	California Energy Code	The project must comply with fenestration efficiency requirements. For example, the choice of windows, glazed doors, and any skylights for the project must conform to energy consumption requirements affecting size, orientation, and types of fenestration products used. (See Title 24, Part 6 Compliance Manual, Section 3.3.)
Building Walls/Insulation	CALGreen Code California Energy Code	The project must comply with efficiency requirements for building walls and insulation.

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		<p><u>Exterior Walls:</u> Must meet requirements in current edition of California Energy Code, and comply with Section 5.407.1, which required weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2. Construction must also meet requirements contained in Title 24, Part 6, which vary by material of the exterior walls. (See Title 24, Part 6 Compliance Manual, Part 3.2.3.)</p> <p><u>Demising (Interior) Walls:</u> Mandatory insulation requirements for demising walls (which separate conditioned from non-conditioned space) differ by the type of wall material used. (<i>Id.</i> at 3.2.4.)</p> <p><u>Door Insulation:</u> There are mandatory requirements for air infiltration rates to improve insulation efficiency; they differ according to the type of door. (<i>Id.</i> at 3.2.5.)</p> <p><u>Flooring Insulation:</u> There are mandatory requirements for insulation that depend on the material and location of the flooring. (<i>Id.</i> at 3.2.6.)</p>
Finish Materials	CALGreen Code	The project must comply with pollutant control requirements for finish materials. For example, materials including adhesives, sealants, caulks, paints and coatings, carpet systems, and composite wood products must meet requirements in CALGreen Code to ensure pollutant control. (CALGreen Code Section 5.504.4.)
Wet Appliances (Toilets/Faucets/Urinals, Dishwasher/Clothes Washer/Water Heater)	CALGreen Code California Energy Code Appliance Efficiency Regulations (Title 20 Standards)	<p>Wet appliances associated with the project must meet various efficiency requirements. For example:</p> <p><u>Toilets/Faucets/Urinals:</u> Use associated with the project is subject to new maximum rates for toilets, urinals, and faucets effective July 1, 2018:</p> <ul style="list-style-type: none"> <li>• Water closets maximum flush volume 1.28 gallons per flush</li> <li>• Showerheads maximum flow rate 2.0 gallons per minute (gpm) at 80 pounds per square inch (psi)</li> <li>• Wash fountains 1.8 gpm/20 (rim space inches at 60 psi)</li> <li>• Metering faucets 0.20 gallons/cycle</li> <li>• Lavatory faucets 0.5 gpm at 60 psi</li> <li>• Kitchen faucets and aerators 1.8 gpm with optional temporary flow of 2.2 gpm at 60 psi</li> <li>• Wall mounted urinals 0.125 gallons per flush</li> <li>• Floor mounted urinals 0.5 gallons per flush</li> </ul> <p>(CALGreen Code Section 5.303.)</p> <p><u>Water Heaters:</u> Use associated with the project is subject to appliance efficiency requirements for water heaters. (Title 20 Standards, Sections 1605.1(f), 1605.3(f).)</p>

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		Dishwasher/Clothes Washer: Use associated with the project is subject to appliance efficiency requirements for dishwashers and clothes washers. (Title 20 Standards, Sections 1605.1(o),(p),(q), 1605.3(o),(p),(q).)
Dry Appliances (Refrigerator/Freezer, Heater/Air Conditioner, Clothes Dryer)	Title 20 Standards CALGreen Code	Dry appliances associated with the project must meet various efficiency requirements. For example: <u>Refrigerator/Freezer</u> : Use associated with the project is subject to appliance efficiency requirements for refrigerators and freezers. (Title 20 Standards, Sections 1605.1(a), 1605.3(a).) <u>Heater/Air Conditioner</u> : Use associated with the project is subject to appliance efficiency requirements for heaters and air conditioners. (Title 20 Standards, Sections 1605.1(b),(c),(d),(e), 1605.3(b),(c),(d),(e) as applicable.) <u>Clothes Dryer</u> : Use associated with the project is subject to appliance efficiency requirements for clothes dryers. (Title 20 Standards, Section 1605.1(q).)
	CALGreen Code	Installations of HVAC, refrigeration and fire suppression equipment must comply with CALGreen Code Sections 5.508.1.1 and 508.1.2, which prohibits CFCs, halons, and certain HCFCs and HFCs.
Lighting	Title 20 Standards	Lighting associated with the project will be subject to energy efficiency requirements contained in Title 20 Standards. <u>General Lighting</u> : Indoor and outdoor lighting associated with the project must comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(j),(k),(n), 1605.3(j),(k),(n).) <u>Emergency lighting and self-contained lighting</u> : the project must also comply with applicable appliance efficiency regulations (Title 20 Standards, Sections 1605.1(l), 1605.3(l).)
	California Energy Code	Lighting associated with the project will also be subject to energy efficiency requirements contained in Title 24, Part 6, which contains energy standards for non-residential indoor lighting and outdoor lighting. (See Title 24 Part 6 Compliance Manual, at Sections 5, 6.) Mandatory lighting controls for indoor lighting include, for example, regulations for automatic shut-off, automatic daytime controls, demand responsive controls, and certificates of installation. (Id. at Section 5.) Regulations for outdoor lighting include, for example, creation of lighting zones, lighting power requirements, a hardscape lighting power allowance, requirements for outdoor incandescent and luminaire lighting, and lighting control functionality. (Id. at Section 6.)

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
	AB 1109	Lighting associated with the project will be subject to energy efficiency requirements adopted pursuant to AB 1109. Enacted in 2007, AB 1109 required the CEC to adopt minimum energy efficiency standards for general purpose lighting, to reduce electricity consumption 50% for indoor residential lighting and 25% for indoor commercial lighting.
Bicycle and Vehicle Parking	CALGreen Code	The project will be required to provide compliant bicycle parking, fuel-efficient vehicle parking, and electric vehicle charging spaces (CALGreen Code Sections 5.106.4, 5.106.5.2, 5.106.5.3)
Landscaping	CALGreen Code	The CALGreen Code includes outdoor water efficiency provisions in Section 5.304.
	EO B-29-15	The project is also subject to emissions reduction requirements to be achieved by implementation of EO B-29-15.  This emergency EO directs the Department of Water Resources to lead a statewide initiative to replace 50 million square feet of lawns and ornamental turf with drought tolerant landscapes. The order also directed the departments to update the Model Water Efficient Landscaping Ordinance, which they did in 2015.
	Model Water Efficient Landscaping Ordinance	The model ordinance promotes efficient landscaping in new developments and establishes an outdoor water budget for new and renovated landscaped areas that are 500 square feet or larger. (CCR, Title 23, Division 2, Chapter 2.7.)
	Cap-and-Trade Program	Transportation fuels used in landscape maintenance equipment (e.g., gasoline) would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Refrigerants	CARB Management of High GWP Refrigerants for Stationary Sources	Any refrigerants associated with the project will be subject to CARB standards. CARB's Regulation for the Management of High GWP Refrigerants for Stationary Sources 1) reduces emissions of high-GWP refrigerants from leaky stationary, non-residential refrigeration equipment; 2) reduces emissions resulting from the installation and servicing of stationary refrigeration and air conditioning appliances using high-GWP refrigerants; and 3) requires verification GHG emission reductions. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5.1, Section 95380 et seq.)
Consumer Products	CARB High GWP GHGs in Consumer Products	All consumer products associated with the project will be subject to CARB standards. CARB's consumer products regulations set VOC limits for numerous categories of consumer products, and limits the reactivity of the ingredients used in numerous categories of aerosol coating

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		products (CCR, Title 17, Division 3, Chapter 1, Subchapter 8.5.)
<i>Construction</i>		
Use of Off-Road Diesel Engines, Vehicles, and Equipment	CARB In-Use Off-Road Diesel Vehicle Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in equipment operation would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
Pollutant Control	CALGreen Code	If an HVAC system is used during construction, the project must use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 5.2.1-1992. All filters must be replaced immediately prior to occupancy. (CALGreen Code Section 5.504.1.)
Greening New Construction	CALGreen Code	All new construction, including the project, must comply with CALGreen Code, as discussed in more detail throughout this table. Adoption of the mandatory CALGreen Code standards for construction has been essential for improving the overall environmental performance of new buildings; it also sets voluntary targets for builders to exceed the mandatory requirements.
Construction Waste	CALGreen Code	The project will be subject to CALGreen Code requirements for construction waste reduction, disposal, and recycling, such as a requirement to recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.



# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
Worker, vendor and truck vehicle trips (on-road vehicles)	Cap-and-Trade Program	Transportation fuels (e.g., gasoline) used in worker, vendor and truck vehicle trips would be subject to the Cap-and-Trade Program. (See "Energy Use," below.)
<i>Solid Waste</i>		
Solid Waste Management	Landfill Methane Control Measure	Waste associated with the project will be disposed per state requirements for landfills, material recovery facilities, and transfer stations. Per the statewide GHG emissions inventory, the largest emissions from waste management sectors come from landfills, and are in the form of CH <sub>4</sub> . In 2010, CARB adopted a regulation that reduces emissions from methane in landfills, primarily by requiring owners and operators of certain uncontrolled municipal solid waste landfills to install gas collection and control systems, and requires existing and newly installed gas and control systems to operate in an optimal manner. The regulation allows local air districts to voluntarily enter into a memorandum of understanding with CARB to implement and enforce the regulation and to assess fees to cover costs of implementation.
	Mandatory Commercial Recycling (AB 341)	AB 341 will require the project, if it generates four cubic yards or more of commercial solid waste per week, to arrange for recycling services, using one of the following: self-haul; subscribe to a hauler(s); arranging for pickup of recyclable materials; subscribing to a recycling service that may include mixed waste processing that yields diversion results comparable to source separation.  The project will also be subject to local commercial solid waste recycling program required to be implemented by each jurisdiction under AB 341.
	CALGreen Code	The project will be subject to CALGreen Code requirement to provide areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling (CALGreen Code Section 5.410.1)
<i>Energy Use</i>		
Electricity/Natural Gas Generation	Cap-and-Trade Program	Electricity and natural gas usage associated with the project will be subject to the Cap-and-Trade Program.  The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase.  Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas, reformulated gasoline blendstock for oxygenate blending (RBOB), distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 MT or more of CO <sub>2e</sub> annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil, liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.
Renewable Energy	California RPS (SB X1-2, SB 350, and SB 100)	<p>Energy providers associated with the project will be required to comply with RPS set by SB X1 2, SB 350, and SB 100. SB X1 2 requires investor-owned utilities, publicly-owned utilities, and electric service providers to increase purchases of renewable energy such that at least 33% of retail sales are procured from renewable energy resources by December 31, 2020. In the interim, each entity was required to procure an average of 20% of renewable energy for the period of January 1, 2011 through December 31, 2013; and will be required to procure an average of 25% by December 31, 2016, and 33% by 2020.</p> <p>SB 350 requires retail sellers and publicly owned utilities to procure 50% of their electricity from eligible renewable energy resources by 2030.</p> <p>SB 100 increased the standards set forth in SB 350 establishing that 44% of the total electricity sold to retail customers in California per year by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030, be secured from qualifying renewable energy sources. SB 100 states that it is the policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of the retail sales of electricity to California by 2045.</p>
	Million Solar Roofs Program (SB 1)	<p>The project will participate in California's energy market, which is affected by implementation of the Million Solar Roofs Program.</p> <p>As part of Governor Schwarzenegger's Million Solar Roofs Program, California has set a goal to install 3,000 megawatts of new, solar capacity through 2016. The Million Solar Roofs Program is a ratepayer-financed incentive program aimed at transforming the market for rooftop solar systems by driving down costs over time.</p>
	California Solar Initiative-Thermal Program	The project will participate in California's energy market, which is affected by implementation of the California Solar Initiative -Thermal Program. The program offers cash rebates of up to \$4,366 on solar water heating systems for single-family residential customers. Multifamily and Commercial properties qualify for rebates of up to \$800,000 on solar water heating systems and eligible solar pool

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		heating systems qualify for rebates of up to \$500,000. Funding for the California Solar Initiative-Thermal program comes from ratepayers of PG&E, Southern California Edison, Southern California Gas Company, and San Diego Gas & Electric. The rebate program is overseen by the CPUC as part of the California Solar Initiative.
	Waste Heat and Carbon Emissions Reduction Act (AB 1613, AB 2791)	The project will participate in California's energy market, which is affected by implementation of the Waste Heat and Carbon Emissions Reduction Act. Originally enacted in 2007 and amended in 2008, this act directed the CEC, CPUC, and CARB to implement a program that would encourage the development of new combined heat and power systems in California with a generating capacity of not more than 20 megawatts, to increase combined heat and power use by 30,000 gigawatt-hour. The CPUC publicly owned electric utilities, and CEC duly established policies and procedures for the purchase of electricity from eligible combined heat and power systems. CEC guidelines require combined heat and power systems to be designed to reduce waste energy; have a minimum efficiency of 60%; have NO <sub>x</sub> emissions of no more than 0.07 pounds per megawatt-hour; be sized to meet eligible customer generation thermal load; operate continuously in a manner that meets expected thermal load and optimizes efficient use of waste heat; and be cost effective, technologically feasible, and environmentally beneficial.
<i>Vehicular/Mobile Sources</i>		
General	SB 375 and MTC and ABAG RTP/SCS	The project complies with, and is subject to, the MTC and ABAG adopted <i>Plan Bay Area 2040</i> (RTP/SCS), which CARB approved as meeting its regional GHG targets.
Fuel	Low Carbon Fuel Standard (LCFS)/ EO S-01-07	Auto trips associated with the project will be subject to LCFS (EO S-01-07), which requires a 10% or greater reduction in the average fuel carbon intensity by 2020 with a 2010 baseline for transportation fuels in California regulated by CARB. The program establishes a strong framework to promote the low carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 GHG goals.
	Cap-and-Trade Program	Use of gasoline associated with the project will be subject to the Cap-and-Trade Program. The rules came into effect on January 1, 2013, applying to large electric power plants and large industrial plants. In 2015, importers and distributors of fossil fuels were added to the Cap-and-Trade Program in the second phase. Specifically, on January 1, 2015, cap-and-trade compliance obligations were phased in for suppliers of natural gas,

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		RBOB, distillate fuel oils, and liquefied petroleum gas that meet or exceed specified emissions thresholds. The threshold that triggers a cap-and-trade compliance obligation for a fuel supplier is 25,000 MT or more of CO <sub>2</sub> e annually from the GHG emissions that would result from full combustion or oxidation of quantities of fuels (including natural gas, RBOB, distillate fuel oil, liquefied petroleum gas, and blended fuels that contain these fuels) imported and/or delivered to California.
Automotive Refrigerants	CARB Regulation for Small Containers of Automotive Refrigerant	Vehicles associated with the project will be subject to CARB's Regulation for Small Containers of Automotive Refrigerant. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5, Section 95360 et seq.) The regulation applies to the sale, use, and disposal of small containers of automotive refrigerant with a GWP greater than 150. The regulation achieves emission reductions through implementation of four requirements: 1) use of a self-sealing valve on the container, 2) improved labeling instructions, 3) a deposit and recycling program for small containers, and 4) an education program that emphasizes best practices for vehicle recharging. This regulation went into effect on January 1, 2010 with a one-year sell-through period for containers manufactured before January 1, 2010. The target recycle rate is initially set at 90%, and rises to 95% beginning January 1, 2012.
Light-Duty Vehicles	AB 1493 (or the Pavley Standard)	Cars that drive to and from the project will be subject to AB 1493, which directed CARB to adopt a regulation requiring the maximum feasible and cost effective reduction of GHG emissions from new passenger vehicles. Pursuant to AB 1493, CARB adopted regulations that establish a declining fleet average standard for CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, and HFCs (air conditioner refrigerants) in new passenger vehicles and light-duty trucks beginning with the 2009 model year and phased-in through the 2016 model year. These standards are divided into those applicable to lighter and those applicable to heavier portions of the passenger vehicle fleet. The regulations will reduce "upstream" smog-forming emissions from refining, marketing, and distribution of fuel.
	Advanced Clean Car and ZEV Programs	Cars that drive to and from the project will be subject to the Advanced Clean Car and ZEV Programs. In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot and global warming gases and requirements for greater numbers of zero-

# Air Quality and Greenhouse Gas Emissions Analysis

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**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/ Regulations	GHG Reduction Measures Required for Project
		<p>emission vehicles into a single package of standards called Advanced Clean Cars. By 2025, new automobiles will emit 34% fewer global warming gases and 75% fewer smog-forming emissions.</p> <p>The ZEV program will act as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid electric vehicles in the 2018-2025 model years.</p>
	Tire Inflation Regulation	<p>Cars that drive to and from the project will be subject to the CARB Tire Inflation Regulation, which took effect on September 1, 2010, and applies to vehicles with a gross vehicle weight rating of 10,000 pounds or less.</p> <p>Under this regulation, automotive service providers must, inter alia, check and inflate each vehicle's tires to the recommended tire pressure rating, with air or nitrogen, as appropriate, at the time of performing any automotive maintenance or repair service, and to keep a copy of the service invoice for a minimum of three years, and make the vehicle service invoice available to the CARB, or its authorized representative upon request.</p>
	EPA and NHTSA GHG and CAFE standards.	<p>Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for passenger cars, light-duty trucks, and medium-duty passenger vehicles. (75 FR 25324–25728 and 77 FR 62624–63200.)</p>
Medium- and Heavy-Duty Vehicles	CARB In-Use On-Road Heavy-Duty Diesel Vehicles Regulation (Truck and Bus Regulation)	<p>Any heavy-duty trucks associated with the project will be subject to CARB standards.</p> <p>The regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet PM filter requirements. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent.</p> <p>The regulation applies to nearly all privately and federally owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds.</p>
	CARB In-Use Off-Road Diesel Vehicle Regulation	<p>Any relevant vehicle or machine use associated with the project will be subject to CARB standards.</p> <p>The CARB In-Use-Off-Road Diesel Vehicle Regulation applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulations: 1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; 2) requires all</p>

# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; 3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and 4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The requirements and compliance dates of the Off-Road regulation vary by fleet size, as defined by the regulation.
	Heavy-Duty Vehicle GHG Emission Reduction Regulation	Any relevant vehicle or machine use associated with the project will be subject to CARB standards. The CARB Heavy-Duty Vehicle GHG Emission Reduction Regulation applies to heavy-duty tractors that pull 53-foot or longer box-type trailers. (CCR, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 1, Section 95300 et seq.) Fuel efficiency is improved through improvements in tractor and trailer aerodynamics and the use of low rolling resistance tires.
	EPA and NHTSA GHG and CAFE standards.	Mobile sources that travel to and from the project would be subject to EPA and NHTSA GHG and CAFE standards for medium- and heavy-duty vehicles. (76 FR 57106–57513.)
<i>Water Use</i>		
Water Use Efficiency	Emergency State Water Board Regulations	Water use associated with the project will be subject to emergency regulations. On May 18, 2016, partially in response to EO B-27-16, the State Water Board adopted emergency water use regulations (CCR, title 23, Section 864.5 and amended and re-adopted Sections 863, 864, 865, and 866). The regulation directs the State Water Board, Department of Water Resources, and CPUC to implement rates and pricing structures to incentivize water conservation, and calls upon water suppliers, homeowners' associations, California businesses, landlords and tenants, and wholesale water agencies to take stronger conservation measures.
	EO B-37-16	Water use associated with the project will be subject to Emergency EO B-37-16, issued May 9, 2016, which directs the State Water Resources Control Board to adjust emergency water conservation regulations through the end of January, 2017 to reflect differing water supply conditions across the state. The Water Board must also develop a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25% reduction called for in EO B-29-15. The Water Board and Department of Water Resources will develop new, permanent water use targets to which the project will be subject.



# Air Quality and Greenhouse Gas Emissions Analysis

## Technical Report for the Truck Facility Specific Plan Project

**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		The Water Board will permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.
	EO B-40-17	EO B-40-17 lifted the drought emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne. It also rescinds EO B-29-15, but expressly states that EO B-37-16 remains in effect and directs the State Water Resources Control Board to continue development of permanent prohibitions on wasteful water use to which the project will be subject.
	SB X7-7	Water provided to the project will be affected by SB X7-7's requirements for water suppliers. SB X7-7, or the Water Conservation Act of 2009, requires all water suppliers to increase water use efficiency. It also requires, among other things, that the Department of Water Resources, in consultation with other state agencies, develop a single standardized water use reporting form, which would be used by both urban and agricultural water agencies.
	CALGreen Code	The project is subject to CALGreen Code's water efficiency standards for indoor and outdoor water use (CALGreen Code, Section 5.303, 5.304.)
	California Water Code, Division 6, Part 2.10, Sections 10910–10915.	Development and approval of the project requires the development of a project-specific Water Supply Assessment.
	Cap-and-Trade Program	Electricity usage associated with water and wastewater supply, treatment and distribution would be subject to the Cap-and-Trade Program.
	California RPS (SB X1-2, SB 350, SB 100)	Electricity usage associated with water and wastewater supply, treatment and distribution associated with the project will be required to comply with RPS set by SB X1-2, SB 350, and SB 100.
Water Recycling	Water Reclamation Requirements for Recycled Water Use. State Water Resources Control Board Order WQ 2016-0068-DDW	These requirements replace 2014-0090-DWQ General Waste Discharge Requirements for Recycled Water Use, and establish standard conditions for recycled water use and conditionally delegates authority to an Administrator to manage a Water Recycling Program and issue Water Recycling Permits to recycled water users.  Only treated municipal wastewater for non-potable uses can be permitted, such as landscape irrigation, crop irrigation,

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**Table 3.5-3**  
**Greenhouse Gas-Related Laws and Regulations**

Project Component	Applicable Laws/Regulations	GHG Reduction Measures Required for Project
		dust control, industrial/commercial cooling, decorative fountains, etc. Potable reuse is not covered.
	Regulations for Groundwater Replenishment Using Recycled Water	This emergency rulemaking by the California Department of Public Health (California Title of Regulations, Title 22, Sections 60301.050 et seq.), effective June 18, 2014, applied to Groundwater Replenishment Reuse projects utilizing surface application, which received initial permits from the Regional Board. The regulations address permitting and plan approval, sampling requirements, operation requirements, and ongoing reporting requirements.
	Policy for Water Quality Control for Recycled Water. State Water Resources Control Board Resolution No. 2009-0011, as amended by Resolution No. 2013-0003	The project would be subject to the State Water Resources Control Board statewide mandate to increase recycled water usage by 0.2 million acre-feet per year by 2020. However, recycled water is not currently available at the project site.

Notes: gpm = gallons per minute; psi = pounds per square inch; GHG = greenhouse gas; AB = Assembly Bill; SB = Senate Bill; EO = Executive Order; HVAC = heating, ventilation, and air conditioning; CFC = chlorofluorocarbons; HFCs = hydrofluorocarbons; HCFCs = hydrochlorofluorocarbons; CEC = California Energy Commission; CCR = California Code of Regulations; CARB = California Air Resources Board; GWP = global warming potential; VOC = volatile organic compounds; MERV = Minimum Efficiency Reporting Value; ASHRAE = American Society of Heating, Refrigerating and Air-Conditioning Engineers; CH<sub>4</sub> = methane; CO<sub>2e</sub> = carbon dioxide equivalent; RBOB = reformulated blendstock for oxygenate blending; RPS = renewable portfolio standard; CPUC = California Public Utilities Commission; SCE = Southern California Edison; NO<sub>x</sub> = oxides of nitrogen; SCAG = Southern California Association of Governments; RTP = regional transportation plan; SCS = sustainable communities strategy; LCFS = low carbon fuel standard; CO<sub>2</sub> = carbon dioxide; N<sub>2</sub>O = nitrous oxide; ZEV = zero-emissions vehicle; EPA = Environmental Protection Agency; NHTSA = National Highway Traffic Safety Administration; CAFE = corporate average fuel economy; PM = particulate matter; FR = Federal Register.

As described above, the project's GHG emissions (both on and off-site) are regulated by many GHG reduction mandates. Compliance with these GHG reduction legal requirements is appropriately assumed to occur under CEQA (*Oakland Heritage Alliance v. City of Oakland* (2011) 195 Cal. App. 4<sup>th</sup> 884, 906; *Center for Biological Diversity v. Department of Fish & Wildlife* (2015) 234 Cal. App. 4<sup>th</sup> 214, 244-45).

### Project Consistency with the City's CAP

The City, in coordination with SBCCOG, has developed a CAP to reduce GHG emissions within the City and thereby reduce the City's contribution to global climate change concerns. However, this CAP is not a Qualified GHG Emissions Reduction Plan under CEQA per the requirements outlined in the CEQA Guidelines, Section 15183.5(D); therefore, no CEQA document can tier from the City CAP. While there are no mandatory GHG plans, policies, or regulations or finalized

## Air Quality and Greenhouse Gas Emissions Analysis

### Technical Report for the Truck Facility Specific Plan Project

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agency guidelines that would apply to implementation of the project, a description of the relevant plans with GHG reduction strategies is provided below.

As discussed in Section 3.2.3, the City CAP includes GHG reduction strategies in the sectors of land use and transportation, energy efficiency, solid waste, urban greening, and energy generation and storage, to reach the City's GHG reduction targets (City of Carson and SBCCOG 2017). The project would include many design features, detailed in Sections 2.4.2 and 3.4.2 (Approach and Methodology), which would result in reduced GHG emissions, consistent with the intent and strategies of the City CAP. Table 3.5-4 details the project's consistency with each of the City CAP GHG reduction measures.

**Table 3.5-4**  
**Project Consistency with City CAP GHG Emission Reduction Measures**

City CAP Measure	Measure Number	Project Consistency
<i>Land Use and Transportation (LUT)</i>		
Goal LUT: A – Accelerate the Market for EV Vehicles		
EV Parking Policies	LUT: A1.1	City to implement. Not applicable to the project.
	LUT: A1.2	City to implement. Not applicable to the project.
	LUT: A1.3	City to implement. Not applicable to the project.
EV Charging Policies	LUT: A2.1 – A2.5	City to implement. Not applicable to the project. Informational purpose: The EV charging station requirements of the CALGreen Tier 1 standards would be implemented into the project, including designating 5% of the total number of parking spaces as EV charging spaces capable of supporting future electric vehicle supply equipment (EVSE).
Administrative Readiness	LUT: A3	City to implement. Not applicable to the project.
Public Information Programs	LUT: A4	City to implement. Not applicable to the project.
Goal LUT: B – Encourage Ride-Sharing		
Facilitate Private and Public Mobility Services (Ride-Hailing, Ride-Sharing, Car-Sharing, Bike-Sharing)	LUT: B1	Consistent. Specific Plan requires preparation and implementation of a Transportation Demand Management (TDM) Plan that shall promote the use of alternative transportation, such as mass-transit, ride-sharing, bicycling, and walking to reduce project trips and/or vehicle miles traveled. Additionally, the Specific Plan requires provision of on-site bicycle storage for visitors and employees, and accessibility to multiple public transportation lines adjacent to the Project Site
Goal LUT: C – Encourage Transit Usage		
Provide a Bus Rapid Transit (BRT) System	LUT: C1.1 through C1.10	City to implement. Not applicable to the project.
Increase Transit Frequency and Speed	LUT: C2	City to implement. Not applicable to the project.

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**Table 3.5-4**  
**Project Consistency with City CAP GHG Emission Reduction Measures**

City CAP Measure	Measure Number	Project Consistency
Goal LUT: D – Adopt Active Transportation Initiatives		
Provide Traffic Calming Measures	LUT: D1	City to implement. Not applicable to the project.
Improve Design of Development	LUT: D2	Consistent. Specific Plan requires preparation and implementation of a Transportation Demand Management (TDM) Plan that shall promote the use of alternative transportation, such as mass-transit, ride-sharing, bicycling, and walking to reduce project trips and/or vehicle miles traveled. Additionally, the Specific Plan requires provision of on-site bicycle storage for visitors and employees, and accessibility to multiple public transportation lines adjacent to the Project Site
Goal LUT: E– Parking Strategies		
Limit Parking Supply	LUT: E1	City to implement. Not applicable to the project.
Unbundle Parking Costs from Property Costs	LUT: E2	City to implement. Not applicable to the project.
Implement On-Street Market Pricing	LUT: E3	City to implement. Not applicable to the project.
Goal LUT: F– Organizational Strategies		
Encourage Telecommuting and Alternative Schedules	LUT: F1	Not applicable.
Implement Commute Trip Reduction Programs	LUT: F2	City to implement. Not applicable to the project.
Goal LUT: G – Land Use Strategies		
Increase Density	LUT: G1	City to implement. Not applicable to the project.
Increase Diversity	LUT: G2	City to implement. Not applicable to the project.
Increase Transit Accessibility	LUT: G3	City to implement. Not applicable to the project.
Integrate Affordable and Below-Market-Rate Housing	LUT: G4	City to implement. Not applicable to the project.
Integrate Neighborhood Oriented Development (NOD) Principles	LUT: G5	City to implement. Not applicable to the project.
Goal LUT: H – Digital Technology Strategies		
Collaborate On and Implement the South Bay Digital Master Plan	LUT: H1	City to implement. Not applicable to the project.
<i>Energy Efficiency (EE)</i>		
Goal EE: A – Increase Energy Efficiency in Existing Residential Units		
EE Training, Education, and Recognition	EE: A1	Not applicable
Increase Participation in Existing EE Programs	EE: A2	Not applicable
Establish, Promote, or Require Home Energy Evaluations	EE: A3	Not applicable
Promote, Incentivize, or Require Residential Home Energy Renovations	EE: A4	Not applicable

# Air Quality and Greenhouse Gas Emissions Analysis

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**Table 3.5-4**  
**Project Consistency with City CAP GHG Emission Reduction Measures**

City CAP Measure	Measure Number	Project Consistency
<b>Goal EE: B – Increase Energy Efficiency in New Residential Developments</b>		
Encourage or Require EE Standards Exceeding Title 24	EE: B1	Consistent. Per the proposed project Specific Plan, the project shall be based on principles of smart growth and environmental sustainability. The new buildings shall be designed and constructed to incorporate environmentally sustainable design features equivalent to a minimum Silver certification under the U.S. Green Building Council's LEED-H® or LEED-NC® Rating System (January 1, 2011).
<b>Goal EE: C – Increase Energy Efficiency in Existing Commercial Units</b>		
Training and Education	EE: C1	Applies to existing commercial uses; not applicable to the project.
Increase Participation in Existing EE Programs	EE: C2	Applies to existing commercial uses; not applicable to the project.
Incentivize or Require Non-Residential Energy Audits	EE: C3	Applies to existing commercial uses; not applicable to the project.
Promote or Require Commercial Energy Retrofits	EE: C4	Applies to existing commercial uses; not applicable to the project.
<b>Goal EE: D – Increase Energy Efficiency in New Commercial Developments</b>		
Encourage or Require EE Standards Exceeding Title 24	EE: D1	Consistent. Per the proposed project Specific Plan, the project shall be based on principles of smart growth and environmental sustainability. The new buildings shall be designed and constructed to incorporate environmentally sustainable design features equivalent to a minimum Silver certification under the U.S. Green Building Council's LEED-H® or LEED-NC® Rating System (January 1, 2011).
<b>Goal EE: E – Increase Energy Efficiency Through Water Efficiency</b>		
Promote or Require Water Efficiency through SB X7-7	EE: E1	Consistent. Per the proposed project Specific Plan: <ul style="list-style-type: none"> <li>• High-efficiency toilets (maximum 1.28 gallons per flush), including dual flush water closets, and no-flush or waterless urinals in all non-residential restrooms as appropriate.</li> <li>• Non-residential restroom faucets with a maximum flow rate of 0.5 gallon per minute and non-residential kitchen faucets (except restaurant kitchens) with a maximum flow rate of 1.5 gallons per minute.</li> <li>• Non-residential restroom faucets of a self-closing design (i.e., that shall automatically turn off when not in use).</li> <li>• Installation of tank less and on-demand water heaters in commercial kitchens and restrooms, when appropriate.</li> <li>• Individual metering and billing for water use of all residential uses and exploration of such metering for commercial spaces.</li> </ul>

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**Table 3.5-4**  
**Project Consistency with City CAP GHG Emission Reduction Measures**

City CAP Measure	Measure Number	Project Consistency
		<ul style="list-style-type: none"> <li>• Installation of a leak detection system for any swimming pool, Jacuzzi, or other comparable spa equipment introduced on-site. Use of a demand (tank less or instantaneous) water heater system sufficient to serve the anticipated needs of the dwellings and/or solar-thermal water heaters, as appropriate.</li> <li>• Installation of high-efficiency Energy Star-rated dishwashers in all residential units, and within kitchen/food preparation areas minimum per City ordinance requirements.</li> <li>• Weather-based irrigation controller with rain shutoff, matched precipitation (flow) rates for sprinkler heads, and rotating sprinkler nozzles or comparable technology such as drip/micro spray/subsurface irrigation and moisture sensors where appropriate.</li> <li>• Minimum irrigation system distribution uniformity of 75 percent.</li> <li>• Use of proper hydro-zoning, turf minimization, zoned irrigation and use of native/drought-tolerant plant materials.</li> <li>• Use of landscape contouring to minimize precipitation runoff.</li> <li>• Use of LID flow-through planters within common site areas that are not located above subterranean parking g.</li> </ul>
Promote Water Efficiency Standards Exceeding SB X7-7	EE: E2	City to implement. Not applicable to the project
Goal EE: F – Decrease Energy Demand Through Reducing Urban Heat Island Effect		
Promote Tree Planting for Shading and EE	EE: F1	City to implement. Not applicable to the project
Incentivize or Require Light-Reflecting Surfaces	EE: F2	Consistent. The project would comply with Title 24 or other local energy codes for cool roof reflective materials.
Goal EE: G – Participate in Education, Outreach, and Planning for Energy Efficiency		
Increase Energy Savings through the SCE Energy Leader Partnership	EE: G1	Not applicable.
Goal EE: H – Increase Energy Efficiency in Municipal Buildings		
Conduct Municipal Energy Audit	EE: H1	Applies to municipal buildings; not applicable to the project.
Require Green Building Certification	EE: H2	Applies to municipal buildings; not applicable to the project.
Implement Water Leak Detection Program	EE: H3	Applies to municipal buildings; not applicable to the project.
Participate in Demand Response Programs	EE: H4	Applies to municipal buildings; not applicable to the project.
Participate in Direct Install Program	EE: H5	Applies to municipal buildings; not applicable to the project.
Install Cool Roofs	EE: H6	Applies to municipal buildings; not applicable to the project.
Retrofit HVAC Equipment and Water Pumps	EE: H7	Applies to municipal buildings; not applicable to the project.
Utilize and Energy Management System	EE: H8	Applies to municipal buildings; not applicable to the project.
Goal EE: I – Increase Energy Efficiency in City Infrastructure		
Retrofit Traffic Signals and Outdoor Lighting	EE: I1	City to implement. Not applicable to the project.
Upgrade or Incorporate Water-Conserving Landscape	EE: I2	City to implement. Not applicable to the project.



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**Table 3.5-4**  
**Project Consistency with City CAP GHG Emission Reduction Measures**

City CAP Measure	Measure Number	Project Consistency
Plant Trees for Shade and Carbon Sequestration	EE: I3	City to implement. Not applicable to the project.
<i>Solid Waste (SW)</i>		
Goal SW: A – Increase Diversion and Reduction of Residential Waste		
Education and Outreach to Residents	SW: A1	City to implement. Not applicable to the project.
Implement Residential Collection Programs to Increase Diversion of Waste	SW: A2	Residential program, Not applicable to the project.
Goal SW: B – Increase Diversion and Reduction of Commercial Waste		
Education and Outreach to Businesses	SW: B1	City to implement. Not applicable to the project.
Implement Commercial Collection Programs to Increase Diversion of Waste	SW: B2	City to implement. Not applicable to the project.
Require Commercial Sector to Further Increase Diversion of Waste from Landfills	SW: B3	SW B3.1 through B3.3 not relevant to truck terminal projects. Not applicable to the project.
Goal SW: C – Increase Diversion and Reduction of Overall Community Waste		
Set a Community Goal to Diver Waste from Landfills	SW: C1	City to implement. Not applicable to the project.
Goal SW: D – Reduce and Divert Municipal Waste		
Education and Program for Municipal Employees/ Facilities	SW: D1	City to implement. Not applicable to the project.
<i>Urban Greenings (UG)</i>		
Goal UG: A – Increase and Maintain Urban Greening in the Community		
Increase Community Gardens	UG: A1	City to implement. Not applicable to the project. The construction and operation of the project will not interfere with the City's ability to encourage community.
Increase Rooftop Gardens	UG: A2	City to implement. Not applicable to the project. The construction and operation of the project will not interfere with the City's ability to encourage rooftop gardens.
Support Local Farms	UG: A3	Not applicable.
Goal UG: B – Increase and Maintain Urban Greening in Municipal Facilities		
Restoration/Preservation of Landscapes	UG: B1	Applies to municipal facilities; not applicable to the project.
Increase Open Space	UG: B2	Applies to municipal facilities; not applicable to the project.
<i>Energy Generation and Storage (EGS)</i>		
Goal EGS: A – Support Energy Generation and Storage in the Community		
Community Choice Aggregation	EGS: A1	City to implement; not applicable to the project.
Siting and Permitting	EGS: A2	City to implement; not applicable to the project.
Policies and Ordinances	EGS: A3	City to implement; not applicable to the project.
Education and Outreach	EGS: A4	City to implement; not applicable to the project.
Explore Technologies in Municipal Facilities	EGS: A5	Applies to municipal facilities; not applicable to the project.

Source: City of Carson.

## **Air Quality and Greenhouse Gas Emissions Analysis**

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Based on the analysis in Table 18, the project would be consistent with the applicable strategies and measures in the City CAP.

#### **Project Consistency with SCAG's 2016 RTP/SCS**

Southern California Association of Governments (SCAG) 2016 RTP/SCS is a regional growth-management strategy that targets per capita GHG reduction from passenger vehicles and light-duty trucks in the Southern California region pursuant to Senate Bill 375. In addition to demonstrating the region's ability to attain and exceed the GHG emission-reduction targets set forth by CARB, the 2016 RTP/SCS outlines a series of actions and strategies for integrating the transportation network with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands. Thus, successful implementation of the 2016 RTP/SCS would result in more complete communities with a variety of transportation and housing choices, while reducing automobile use. With regard to individual developments, such as the proposed project, the strategies and policies set forth in the 2016 RTP/SCS can be grouped into the following three categories: (1) reduction of vehicle trips and VMT; (2) increased use of alternative fuel vehicles; and (3) improved energy efficiency. The project's consistency with these three strategy categories is presented below.

#### ***1. Consistency with VMT Reduction Strategies and Policies***

The proposed project's consistency with this aspect of the 2016 RTP/SCS is demonstrated via the project's land use characteristics and consistency with the regional growth forecast assumed in the 2016 RTP/SCS for the City. As discussed in Section 3.3, to ensure consistency between the Specific Plan and to the City's General Plan, the General Plan will be amended concurrent with adoption of this Plan for the project. The corresponding General Plan amendment establishes a "Heavy, Manufacturing"<sup>1</sup> Land Use Designation for the KL Fenix Specific Plan area to replace the Site's existing "Light Industrial" General Plan designations. The project site would provide 44 trailer parking spaces to provide temporary parking and storage for trucks and truck-mounted containers. As described in Section 3.14, the proposed project would not provide new homes or businesses. Additionally, the project would not indirectly induce unplanned population growth through extension of roads or other infrastructure. Based on the consistency with the General Plan Use Designation and zoning, the proposed Project would not conflict with an applicable land use plan, policy, or regulation of an agency with jurisdiction over the project. Vehicle trip generation as a result of the proposed project are concluded to have been anticipated in the SCAG 2016 RTP/SCS growth projections because the proposed project site would be accommodated by the City's predicted projections.

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## **Technical Report for the Truck Facility Specific Plan Project**

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### **2. *Increased Use of Alternative Fueled Vehicles Policy Initiative***

The second goal of the 2016 RTP/SCS, with regard to individual development projects such as the proposed project, is to increase alternative fueled vehicles to reduce per capita GHG emissions. This 2016 RTP/SCS policy initiative focuses on accelerating fleet conversion to electric or other near zero-emission technologies. The proposed project would comply with the applicable 2016 CALGreen standards. Additionally, the proposed project Specific Plan would require the following:

- Preparation and implementation of a Transportation Demand Management (TDM) Plan that shall promote the use of alternative transportation, such as mass-transit, ride-sharing, bicycling, and walking to reduce project trips and/or vehicle miles traveled.
- Provision of on-site bicycle storage for visitors and employees.
- Accessibility to multiple public transportation lines adjacent to the Project Site.
- Allocation of preferred parking for alternative-fuel vehicles, low-emitting, and fuel-efficient and ride-sharing vehicles.
- As required, provision of electric vehicle charging stations (i.e., provide electric vehicle supply wiring equal to 5 percent of the total number of parking spaces).

### **3. *Energy Efficiency Strategies and Policies***

The third important focus within the 2016 RTP/SCS, for individual developments such as the proposed project, involves improving energy efficiency (e.g., reducing energy consumption) to reduce GHG emissions. The 2016 RTP/SCS goal is to actively encourage and create incentives for energy efficiency, where possible. The proposed project would comply with the applicable 2016 CALGreen standards. Additionally, the proposed project Specific Plan would require the following:

- Energy Star-labeled products and appliances shall be installed where appropriate.
- Meeting of Title 24, Part 6, California Energy Code baseline standard requirements for energy efficiency, based on the 2013 Energy Efficiency Standards requirements. Examples of design methods and technologies that shall be implemented may include, but not be limited to, high performance glazing on windows, appropriately-oriented shading devices, high efficiency boilers (if single metered), instantaneous water heaters (if individual meters), and enhanced insulation to minimize solar and thermal gain.
- Application of energy-saving technologies and components to reduce the project's electrical usage-profile.

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- Incorporation of passive energy efficiency strategies, such as roof overhangs, porches, and inner courtyards.
- During operations in order to achieve maximum efficiency, while maintaining safety for residents and visitors, exterior lighting elements will be controlled by light sensors and/or timeclocks to avoid over lighting as appropriate.
- Commissioning of building energy systems to verify that the Project's building energy systems are installed, calibrated, and performing to the Owner's Project requirements.

Based on the analysis above, the proposed project would be consistent with the SCAG 2016 RTP/SCS.

#### **Consistency with Executive Order S-3-05 and Senate Bill 32**

- **EO S-3-05.** This EO establishes the following goals: GHG emissions should be reduced to 2000 levels by 2010, to 1990 levels by 2020, and to 80% below 1990 levels by 2050.
- **SB 32.** This bill establishes for a statewide GHG emissions reduction target whereby CARB, in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emissions reductions, shall ensure that statewide GHG emissions are reduced to at least 40% below 1990 levels by December 31, 2030.

This section evaluates whether the GHG emissions trajectory after proposed Project completion would impede the attainment of the 2030 and 2050 GHG reduction goals identified in EOs B-30-15 and S-3-05.

To begin, CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014, p. ES2). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014, p. 34):

This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under AB 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

## **Air Quality and Greenhouse Gas Emissions Analysis**

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In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, EO B-30-15, and EO S-3-05. This is confirmed in the 2017 Scoping Plan, which states (CARB 2017):

The Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while identifying new, technologically feasible and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities.

The proposed Project would not interfere with implementation of any of the above-described GHG reduction goals for 2030 or 2050 because the project would not exceed the SCAQMD's draft interim threshold of 3,000 MT CO<sub>2</sub>e per year (SCAQMD 2008). This threshold was established based on the goal of AB 32 to reduce statewide GHG emissions to 1990 levels by 2020. Because the proposed Project would not exceed the threshold, this analysis provides support for the conclusion that the Project would not impede the state's trajectory toward the above-described statewide GHG reduction goals for 2030 or 2050. In addition, the project would comply with laws and regulations that would reduce GHG emissions

Furthermore, the proposed Project would not conflict with the state's trajectory toward future GHG reductions. In addition, since the specific path to compliance for the state in regards to the long-term goals will likely require development of technology or other changes that are not currently known or available, specific additional mitigation measures for the project would be speculative and cannot be identified at this time. The proposed Project's consistency would assist in meeting the City's contribution to GHG emission reduction targets in California. With respect to future GHG targets under SB 32 and EO S-3-05, CARB has also made clear its legal interpretation that it has the requisite authority to adopt whatever regulations are necessary, beyond the AB 32 horizon year of 2020, to meet SB 32's 40% reduction target by 2030 and EO S-3-05's 80% reduction target by 2050; this legal interpretation by an expert agency provides evidence that future regulations will be adopted to continue the state on its trajectory toward meeting these future GHG targets.

Based on the above considerations, the proposed Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and no mitigation is required. This impact would be less than significant.

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**Air Quality and Greenhouse Gas Emissions Analysis**  
**Technical Report for the Truck Facility Specific Plan Project**

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# APPENDIX A

## *CalEEMod Output Files*

KL Fenix - South Coast AQMD Air District, Annual

**KL Fenix****South Coast AQMD Air District, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.05	1000sqft	0.32	14,050.00	0
Unrefrigerated Warehouse-No Rail	39.50	1000sqft	0.91	39,500.00	0
Parking Lot	12.89	Acre	12.89	561,520.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	628.13	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

## KL Fenix - South Coast AQMD Air District, Annual

Project Characteristics - See Section 1.0 Project Characteristics. Operational year 2021 consistent with traffic analysis. CO2 Intensity factor adjusted for 2017 SCE Power Content Label assuming 29% renewables (628.13lb/MWh).

Land Use - Land Use - See 1.1 Land Usage.

Construction Phase - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Default values. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Trips and VMT - Per applicant provided information.

Grading - Default values

Architectural Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Area Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Energy Use - Default Values.

Water And Wastewater - Default Values

Solid Waste - Default Values

Construction Off-road Equipment Mitigation -

Water Mitigation - Per applicant provided information, low-flow indoor water use equipment will be utilized for the project.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	5.00
tblArchitecturalCoating	EF_Parking	100.00	5.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	5

## KL Fenix - South Coast AQMD Air District, Annual

tblAreaCoating	Area_EF_Nonresidential_Interior	100	5
tblAreaCoating	Area_EF_Parking	100	5
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	153.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	11.00
tblLandUse	LandUseSquareFeet	561,488.40	561,520.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	628.13
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	101.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00

KL Fenix - South Coast AQMD Air District, Annual

tblTripsAndVMT	WorkerTripNumber	257.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	51.00	6.00

2.0 Emissions Summary

## KL Fenix - South Coast AQMD Air District, Annual

**2.1 Overall Construction****Unmitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2020	0.2821	2.2952	1.8516	3.5300e-003	0.2490	0.1195	0.3686	0.1208	0.1118	0.2326	0.0000	307.3799	307.3799	0.0731	0.0000	309.2064
Maximum	0.2821	2.2952	1.8516	3.5300e-003	0.2490	0.1195	0.3686	0.1208	0.1118	0.2326	0.0000	307.3799	307.3799	0.0731	0.0000	309.2064

**Mitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
2020	0.2821	2.2952	1.8516	3.5300e-003	0.1333	0.1195	0.2528	0.0600	0.1118	0.1718	0.0000	307.3796	307.3796	0.0731	0.0000	309.2061
Maximum	0.2821	2.2952	1.8516	3.5300e-003	0.1333	0.1195	0.2528	0.0600	0.1118	0.1718	0.0000	307.3796	307.3796	0.0731	0.0000	309.2061

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	46.47	0.00	31.40	50.31	0.00	26.13	0.00	0.00	0.00	0.00	0.00	0.00



## KL Fenix - South Coast AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.8245	0.8245
2	4-1-2020	6-30-2020	0.7069	0.7069
3	7-1-2020	9-30-2020	0.7146	0.7146
		Highest	0.8245	0.8245

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Energy	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	161.5246	161.5246	7.2000e-003	1.6300e-003	162.1896
Mobile	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Waste						0.0000	0.0000		0.0000	0.0000	10.0846	0.0000	10.0846	0.5960	0.0000	24.9842
Water						0.0000	0.0000		0.0000	0.0000	3.6507	47.5171	51.1678	0.3772	9.3100e-003	63.3701
<b>Total</b>	<b>0.2923</b>	<b>0.3486</b>	<b>0.8455</b>	<b>3.1300e-003</b>	<b>0.2522</b>	<b>3.1600e-003</b>	<b>0.2554</b>	<b>0.0676</b>	<b>3.0000e-003</b>	<b>0.0706</b>	<b>13.7352</b>	<b>493.3526</b>	<b>507.0878</b>	<b>0.9942</b>	<b>0.0109</b>	<b>535.2013</b>

## KL Fenix - South Coast AQMD Air District, Annual

**2.2 Overall Operational****Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Energy	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	161.5246	161.5246	7.2000e-003	1.6300e-003	162.1896
Mobile	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Waste						0.0000	0.0000		0.0000	0.0000	10.0846	0.0000	10.0846	0.5960	0.0000	24.9842
Water						0.0000	0.0000		0.0000	0.0000	2.9205	38.9792	41.8997	0.3018	7.4600e-003	51.6655
<b>Total</b>	<b>0.2923</b>	<b>0.3486</b>	<b>0.8455</b>	<b>3.1300e-003</b>	<b>0.2522</b>	<b>3.1600e-003</b>	<b>0.2554</b>	<b>0.0676</b>	<b>3.0000e-003</b>	<b>0.0706</b>	<b>13.0051</b>	<b>484.8146</b>	<b>497.8197</b>	<b>0.9188</b>	<b>9.0900e-003</b>	<b>523.4967</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5.32</b>	<b>1.73</b>	<b>1.83</b>	<b>7.58</b>	<b>16.91</b>	<b>2.19</b>

**3.0 Construction Detail****Construction Phase**

## KL Fenix - South Coast AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/15/2020	5	11	
2	Grading	Grading	1/16/2020	2/15/2020	5	22	
3	Trenching	Trenching	2/16/2020	3/31/2020	5	32	
4	Building Construction	Building Construction	4/1/2020	10/31/2020	5	153	
5	Paving	Paving	11/1/2020	12/31/2020	5	44	
6	Architectural Coating	Architectural Coating	12/1/2020	12/31/2020	5	23	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 12.89**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 79,500; Non-Residential Outdoor: 26,500; Striped Parking Area: 33,691 (Architectural Coating – sqft)**

**OffRoad Equipment**

## KL Fenix - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Bore/Drill Rigs	2	8.00	221	0.50
Trenching	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

## KL Fenix - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	6.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0662	0.0000	0.0662	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0119	0.1247	0.0455	9.0000e-005		6.1000e-003	6.1000e-003		5.6200e-003	5.6200e-003	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228
Total	0.0119	0.1247	0.0455	9.0000e-005	0.0662	6.1000e-003	0.0723	0.0364	5.6200e-003	0.0420	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228

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**3.2 Site Preparation - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.6700e-003	0.0000	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4346	0.4346	1.0000e-005	0.0000	0.4349
<b>Total</b>	<b>2.0000e-004</b>	<b>1.5000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4346</b>	<b>0.4346</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4349</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0298	0.0000	0.0298	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0119	0.1247	0.0455	9.0000e-005		6.1000e-003	6.1000e-003	5.6200e-003	5.6200e-003	5.6200e-003	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228
<b>Total</b>	<b>0.0119</b>	<b>0.1247</b>	<b>0.0455</b>	<b>9.0000e-005</b>	<b>0.0298</b>	<b>6.1000e-003</b>	<b>0.0359</b>	<b>0.0164</b>	<b>5.6200e-003</b>	<b>0.0220</b>	<b>0.0000</b>	<b>8.2561</b>	<b>8.2561</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>8.3228</b>

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**3.2 Site Preparation - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.6700e-003	0.0000	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4346	0.4346	1.0000e-005	0.0000	0.4349
<b>Total</b>	<b>2.0000e-004</b>	<b>1.5000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4346</b>	<b>0.4346</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4349</b>

**3.3 Grading - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1442	0.0000	0.1442	0.0741	0.0000	0.0741	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.4343	0.1725	3.9000e-004		0.0196	0.0196	0.0180	0.0180	0.0180	0.0000	34.4103	34.4103	0.0111	0.0000	34.6885
<b>Total</b>	<b>0.0388</b>	<b>0.4343</b>	<b>0.1725</b>	<b>3.9000e-004</b>	<b>0.1442</b>	<b>0.0196</b>	<b>0.1637</b>	<b>0.0741</b>	<b>0.0180</b>	<b>0.0921</b>	<b>0.0000</b>	<b>34.4103</b>	<b>34.4103</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6885</b>



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**3.3 Grading - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	7.5000e-004	8.3300e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1729	2.1729	6.0000e-005	0.0000	2.1744
<b>Total</b>	<b>9.8000e-004</b>	<b>7.5000e-004</b>	<b>8.3300e-003</b>	<b>2.0000e-005</b>	<b>2.4100e-003</b>	<b>2.0000e-005</b>	<b>2.4300e-003</b>	<b>6.4000e-004</b>	<b>2.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.1729</b>	<b>2.1729</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1744</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0649	0.0000	0.0649	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.4343	0.1725	3.9000e-004		0.0196	0.0196		0.0180	0.0180	0.0000	34.4102	34.4102	0.0111	0.0000	34.6884
<b>Total</b>	<b>0.0388</b>	<b>0.4343</b>	<b>0.1725</b>	<b>3.9000e-004</b>	<b>0.0649</b>	<b>0.0196</b>	<b>0.0845</b>	<b>0.0333</b>	<b>0.0180</b>	<b>0.0514</b>	<b>0.0000</b>	<b>34.4102</b>	<b>34.4102</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6884</b>

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**3.3 Grading - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	7.5000e-004	8.3300e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1729	2.1729	6.0000e-005	0.0000	2.1744
Total	9.8000e-004	7.5000e-004	8.3300e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1729	2.1729	6.0000e-005	0.0000	2.1744

**3.4 Trenching - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003	6.4300e-003	6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2610
Total	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003	6.4300e-003	6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2610

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**3.4 Trenching - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.4100e-003	8.5000e-004	1.0000e-005	2.0000e-004	2.0000e-005	2.2000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7871	0.7871	5.0000e-005	0.0000	0.7883
Worker	1.1400e-003	8.8000e-004	9.7000e-003	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5284	2.5284	7.0000e-005	0.0000	2.5302
Total	1.2500e-003	4.2900e-003	0.0106	4.0000e-005	3.0100e-003	4.0000e-005	3.0500e-003	8.1000e-004	4.0000e-005	8.4000e-004	0.0000	3.3155	3.3155	1.2000e-004	0.0000	3.3186

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003		6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2609
Total	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003		6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2609

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**3.4 Trenching - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.4100e-003	8.5000e-004	1.0000e-005	2.0000e-004	2.0000e-005	2.2000e-004	6.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7871	0.7871	5.0000e-005	0.0000	0.7883
Worker	1.1400e-003	8.8000e-004	9.7000e-003	3.0000e-005	2.8100e-003	2.0000e-005	2.8300e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5284	2.5284	7.0000e-005	0.0000	2.5302
Total	1.2500e-003	4.2900e-003	0.0106	4.0000e-005	3.0100e-003	4.0000e-005	3.0500e-003	8.1000e-004	4.0000e-005	8.4000e-004	0.0000	3.3155	3.3155	1.2000e-004	0.0000	3.3186

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1816	177.1816	0.0432	0.0000	178.2623
Total	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1816	177.1816	0.0432	0.0000	178.2623

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**3.5 Building Construction - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1000e-004	0.0163	4.0400e-003	4.0000e-005	9.6000e-004	8.0000e-005	1.0400e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	3.7631	3.7631	2.5000e-004	0.0000	3.7692
Worker	0.0103	7.8600e-003	0.0869	2.5000e-004	0.0252	1.9000e-004	0.0254	6.6900e-003	1.8000e-004	6.8700e-003	0.0000	22.6669	22.6669	6.5000e-004	0.0000	22.6832
Total	0.0108	0.0242	0.0910	2.9000e-004	0.0261	2.7000e-004	0.0264	6.9700e-003	2.6000e-004	7.2200e-003	0.0000	26.4300	26.4300	9.0000e-004	0.0000	26.4524

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1814	177.1814	0.0432	0.0000	178.2621
Total	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1814	177.1814	0.0432	0.0000	178.2621

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**3.5 Building Construction - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.1000e-004	0.0163	4.0400e-003	4.0000e-005	9.6000e-004	8.0000e-005	1.0400e-003	2.8000e-004	8.0000e-005	3.5000e-004	0.0000	3.7631	3.7631	2.5000e-004	0.0000	3.7692
Worker	0.0103	7.8600e-003	0.0869	2.5000e-004	0.0252	1.9000e-004	0.0254	6.6900e-003	1.8000e-004	6.8700e-003	0.0000	22.6669	22.6669	6.5000e-004	0.0000	22.6832
Total	0.0108	0.0242	0.0910	2.9000e-004	0.0261	2.7000e-004	0.0264	6.9700e-003	2.6000e-004	7.2200e-003	0.0000	26.4300	26.4300	9.0000e-004	0.0000	26.4524

**3.6 Paving - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	2.5900e-003	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217
Paving	0.0169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217

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**3.6 Paving - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0141	3.4900e-003	3.0000e-005	8.3000e-004	7.0000e-005	9.0000e-004	2.4000e-004	7.0000e-005	3.1000e-004	0.0000	3.2466	3.2466	2.1000e-004	0.0000	3.2519
Worker	1.9600e-003	1.5100e-003	0.0167	5.0000e-005	4.8300e-003	4.0000e-005	4.8600e-003	1.2800e-003	3.0000e-005	1.3200e-003	0.0000	4.3457	4.3457	1.2000e-004	0.0000	4.3489
Total	2.4000e-003	0.0156	0.0202	8.0000e-005	5.6600e-003	1.1000e-004	5.7600e-003	1.5200e-003	1.0000e-004	1.6300e-003	0.0000	7.5923	7.5923	3.3000e-004	0.0000	7.6007

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	2.5900e-003	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217
Paving	0.0169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217



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**3.6 Paving - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4000e-004	0.0141	3.4900e-003	3.0000e-005	8.3000e-004	7.0000e-005	9.0000e-004	2.4000e-004	7.0000e-005	3.1000e-004	0.0000	3.2466	3.2466	2.1000e-004	0.0000	3.2519
Worker	1.9600e-003	1.5100e-003	0.0167	5.0000e-005	4.8300e-003	4.0000e-005	4.8600e-003	1.2800e-003	3.0000e-005	1.3200e-003	0.0000	4.3457	4.3457	1.2000e-004	0.0000	4.3489
Total	2.4000e-003	0.0156	0.0202	8.0000e-005	5.6600e-003	1.1000e-004	5.7600e-003	1.5200e-003	1.0000e-004	1.6300e-003	0.0000	7.5923	7.5923	3.3000e-004	0.0000	7.6007

**3.7 Architectural Coating - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205
Total	0.0171	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205

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**3.7 Architectural Coating - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.4500e-003	6.1000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5657	0.5657	4.0000e-005	0.0000	0.5666
Worker	3.1000e-004	2.4000e-004	2.6100e-003	1.0000e-005	7.6000e-004	1.0000e-005	7.6000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6815	0.6815	2.0000e-005	0.0000	0.6820
Total	3.9000e-004	2.6900e-003	3.2200e-003	2.0000e-005	9.0000e-004	2.0000e-005	9.2000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	1.2472	1.2472	6.0000e-005	0.0000	1.2486

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205
Total	0.0171	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205

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**3.7 Architectural Coating - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	2.4500e-003	6.1000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5657	0.5657	4.0000e-005	0.0000	0.5666
Worker	3.1000e-004	2.4000e-004	2.6100e-003	1.0000e-005	7.6000e-004	1.0000e-005	7.6000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6815	0.6815	2.0000e-005	0.0000	0.6820
Total	3.9000e-004	2.6900e-003	3.2200e-003	2.0000e-005	9.0000e-004	2.0000e-005	9.2000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	1.2472	1.2472	6.0000e-005	0.0000	1.2486

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Unmitigated	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate				Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT	Annual VMT
General Office Building	154.97	34.56	14.75	379,292	379,292	379,292	379,292	379,292
Parking Lot	0.00	0.00	0.00					
Unrefrigerated Warehouse-No Rail	66.36	66.36	66.36	284,400	284,400	284,400	284,400	284,400
Total	221.33	100.92	81.11	663,692	663,692	663,692	663,692	663,692

## 4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by	Pass-by
General Office Building	16.60	8.40	6.90	6.90	33.00	48.00	19.00	19.00	77	19	4	4
Parking Lot	16.60	8.40	6.90	6.90	0.00	0.00	0.00	0.00	0	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	6.90	59.00	0.00	41.00	41.00	92	5	3	3

## 4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Unrefrigerated Warehouse-No Rail	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	151.8858	151.8858	7.0100e-003	1.4500e-003	152.4934
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	151.8858	151.8858	7.0100e-003	1.4500e-003	152.4934
Natural Gas Mitigated	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.8000e-004	1.8000e-004	9.6961
Natural Gas Unmitigated	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.8000e-004	1.8000e-004	9.6961

## Unmitigated

## Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
General Office Building	146261	7.9000e-004	7.1700e-003	6.0200e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.8050	7.8050	1.5000e-004	1.4000e-004	7.8514	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Unrefrigerated Warehouse-No Rail	34365	1.9000e-004	1.6800e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8339	1.8339	4.0000e-005	3.0000e-005	1.8447	
Total		9.8000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.9000e-004	1.7000e-004	9.6961	

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	182509	51.9997	2.4000e-003	5.0000e-004	52.2077
Parking Lot	196532	55.9949	2.5900e-003	5.3000e-004	56.2189
Unrefrigerated Warehouse-No Rail	154050	43.8912	2.0300e-003	4.2000e-004	44.0668
<b>Total</b>		<b>151.8858</b>	<b>7.0200e-003</b>	<b>1.4500e-003</b>	<b>152.4934</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	182509	51.9997	2.4000e-003	5.0000e-004	52.2077
Parking Lot	196532	55.9949	2.5900e-003	5.3000e-004	56.2189
Unrefrigerated Warehouse-No Rail	154050	43.8912	2.0300e-003	4.2000e-004	44.0668
<b>Total</b>		<b>151.8858</b>	<b>7.0200e-003</b>	<b>1.4500e-003</b>	<b>152.4934</b>



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**6.0 Area Detail****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Unmitigated	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003

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**6.2 Area by SubCategory****Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
<b>Total</b>	<b>0.2315</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6500e-003</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7600e-003</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
<b>Total</b>	<b>0.2315</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6500e-003</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7600e-003</b>

**7.0 Water Detail**

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.8997	0.3018	7.4600e-003	51.6655
Unmitigated	51.1678	0.3772	9.3100e-003	63.3701

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**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.48827 / 1.52507	14.8481	0.0817	2.0500e-003	17.5018
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.01875 / 0	36.3197	0.2954	7.2600e-003	45.8683
<b>Total</b>		<b>51.1678</b>	<b>0.3772</b>	<b>9.3100e-003</b>	<b>63.3701</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.99062 / 1.52507	12.8440	0.0654	1.6500e-003	14.9708
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	7.215 / 0	29.0558	0.2363	5.8100e-003	36.6946
<b>Total</b>		<b>41.8997</b>	<b>0.3018</b>	<b>7.4600e-003</b>	<b>51.6655</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.0846	0.5960	0.0000	24.9842
Unmitigated	10.0846	0.5960	0.0000	24.9842

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**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	13.02	2.6429	0.1562	0.0000	6.5478
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	36.66	7.4417	0.4398	0.0000	18.4364
<b>Total</b>		<b>10.0846</b>	<b>0.5960</b>	<b>0.0000</b>	<b>24.9842</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	13.02	2.6429	0.1562	0.0000	6.5478
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	36.66	7.4417	0.4398	0.0000	18.4364
<b>Total</b>		<b>10.0846</b>	<b>0.5960</b>	<b>0.0000</b>	<b>24.9842</b>

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9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation



KL Fenix - South Coast AQMD Air District, Summer

**KL Fenix**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.05	1000sqft	0.32	14,050.00	0
Unrefrigerated Warehouse-No Rail	39.50	1000sqft	0.91	39,500.00	0
Parking Lot	12.89	Acre	12.89	561,520.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021

Utility Company      Southern California Edison

CO2 Intensity (lb/MW/hr)	628.13	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

KL Fenix - South Coast AQMD Air District, Summer

Project Characteristics - See Section 1.0 Project Characteristics. Operational year 2021 consistent with traffic analysis. CO2 Intensity factor adjusted for 2017 SCE Power Content Label assuming 29% renewables (628.13lb/MWh).

Land Use - Land Use - See 1.1 Land Usage.

Construction Phase - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Default values. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Trips and VMT - Per applicant provided information.

Grading - Default values

Architectural Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Area Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Energy Use - Default Values.

Water And Wastewater - Default Values

Solid Waste - Default Values

Construction Off-road Equipment Mitigation -

Water Mitigation - Per applicant provided information, low-flow indoor water use equipment will be utilized for the project.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	5.00
tblArchitecturalCoating	EF_Parking	100.00	5.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	5

## KL Fenix - South Coast AQMD Air District, Summer

tblAreaCoating	Area_EF_Nonresidential_Interior	100	5
tblAreaCoating	Area_EF_Parking	100	5
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	153.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	11.00
tblLandUse	LandUseSquareFeet	561,488.40	561,520.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	628.13
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	101.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00

KL Fenix - South Coast AQMD Air District, Summer

tblTripsAndVMT	WorkerTripNumber	257.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	51.00	6.00

2.0 Emissions Summary

KL Fenix - South Coast AQMD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
2020	3.6174	39.5387	18.1249	0.0379	13.3282	1.7815	15.1097	6.7943	1.6389	8.4332	0.0000	3,677.1387	3,677.1387	1.1218	0.0000	3,705.1841
Maximum	3.6174	39.5387	18.1249	0.0379	13.3282	1.7815	15.1097	6.7943	1.6389	8.4332	0.0000	3,677.1387	3,677.1387	1.1218	0.0000	3,705.1841

**Mitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
2020	3.6174	39.5387	18.1249	0.0379	6.1207	1.7815	7.9021	3.0900	1.6389	4.7290	0.0000	3,677.1387	3,677.1387	1.1218	0.0000	3,705.1841
Maximum	3.6174	39.5387	18.1249	0.0379	6.1207	1.7815	7.9021	3.0900	1.6389	4.7290	0.0000	3,677.1387	3,677.1387	1.1218	0.0000	3,705.1841

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	54.08	0.00	47.70	54.52	0.00	43.92	0.00	0.00	0.00	0.00	0.00	0.00

## KL Fenix - South Coast AQMD Air District, Summer

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Area	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005	2.0000e-005	2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
Energy	5.3400e-003	0.0485	0.0408	2.9000e-004		3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003		58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653
Mobile	0.4202	2.1330	5.7396	0.0208	1.6662	0.0162	1.6824	0.4458	0.0151	0.4610		2,118.2912	2,118.2912	0.1003		2,120.7998
<b>Total</b>	<b>1.6942</b>	<b>2.1816</b>	<b>5.7872</b>	<b>0.0211</b>	<b>1.6662</b>	<b>0.0199</b>	<b>1.6861</b>	<b>0.4458</b>	<b>0.0188</b>	<b>0.4647</b>		<b>2,176.5251</b>	<b>2,176.5251</b>	<b>0.1015</b>	<b>1.0700e-003</b>	<b>2,179.3806</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Area	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005	2.0000e-005	2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
Energy	5.3400e-003	0.0485	0.0408	2.9000e-004		3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003		58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653
Mobile	0.4202	2.1330	5.7396	0.0208	1.6662	0.0162	1.6824	0.4458	0.0151	0.4610		2,118.2912	2,118.2912	0.1003		2,120.7998
<b>Total</b>	<b>1.6942</b>	<b>2.1816</b>	<b>5.7872</b>	<b>0.0211</b>	<b>1.6662</b>	<b>0.0199</b>	<b>1.6861</b>	<b>0.4458</b>	<b>0.0188</b>	<b>0.4647</b>		<b>2,176.5251</b>	<b>2,176.5251</b>	<b>0.1015</b>	<b>1.0700e-003</b>	<b>2,179.3806</b>

## KL Fenix - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/15/2020	5	11	
2	Grading	Grading	1/16/2020	2/15/2020	5	22	
3	Trenching	Trenching	2/16/2020	3/31/2020	5	32	
4	Building Construction	Building Construction	4/1/2020	10/31/2020	5	153	
5	Paving	Paving	11/1/2020	12/31/2020	5	44	
6	Architectural Coating	Architectural Coating	12/1/2020	12/31/2020	5	23	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 22****Acres of Paving: 12.89****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 79,500; Non-Residential Outdoor: 26,500; Striped Parking Area: 33,691 (Architectural Coating – sqft)****OffRoad Equipment**



## KL Fenix - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Bore/Drill Rigs	2	8.00	221	0.50
Trenching	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

## KL Fenix - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	6.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.1590	22.6645	8.2632	0.0171		1.1100	1.1100	1.0212	1.0212	1.0212		1,654.6850	1,654.6850	0.5352		1,668.0640
Total	2.1590	22.6645	8.2632	0.0171	12.0442	1.1100	13.1541	6.6205	1.0212	7.6416		1,654.6850	1,654.6850	0.5352		1,668.0640

KL Fenix - South Coast AQMD Air District, Summer

### 3.2 Site Preparation - 2020

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
<b>Total</b>	<b>0.0362</b>	<b>0.0243</b>	<b>0.3271</b>	<b>9.2000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>91.5534</b>	<b>91.5534</b>	<b>2.6300e-003</b>		<b>91.6192</b>

#### Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	2.1590	22.6645	8.2632	0.0171		1.1100	1.1100	1.0212	1.0212	1.0212	0.0000	1,654.6850	1,654.6850	0.5352		1,668.0640
<b>Total</b>	<b>2.1590</b>	<b>22.6645</b>	<b>8.2632</b>	<b>0.0171</b>	<b>5.4199</b>	<b>1.1100</b>	<b>6.5298</b>	<b>2.9792</b>	<b>1.0212</b>	<b>4.0004</b>	<b>0.0000</b>	<b>1,654.6850</b>	<b>1,654.6850</b>	<b>0.5352</b>		<b>1,668.0640</b>

KL Fenix - South Coast AQMD Air District, Summer

**3.2 Site Preparation - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
<b>Total</b>	<b>0.0362</b>	<b>0.0243</b>	<b>0.3271</b>	<b>9.2000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>91.5534</b>	<b>91.5534</b>	<b>2.6300e-003</b>		<b>91.6192</b>

**3.3 Grading - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					13.1047	0.0000	13.1047	6.7350	0.0000	6.7350			0.0000			0.0000
Off-Road	3.5269	39.4779	15.6789	0.0356		1.7798	1.7798	1.6374	1.6374	1.6374		3,448.2552	3,448.2552	1.1152		3,476.1361
<b>Total</b>	<b>3.5269</b>	<b>39.4779</b>	<b>15.6789</b>	<b>0.0356</b>	<b>13.1047</b>	<b>1.7798</b>	<b>14.8844</b>	<b>6.7350</b>	<b>1.6374</b>	<b>8.3723</b>		<b>3,448.2552</b>	<b>3,448.2552</b>	<b>1.1152</b>		<b>3,476.1361</b>

KL Fenix - South Coast AQMD Air District, Summer

**3.3 Grading - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.0905</b>	<b>0.0608</b>	<b>0.8176</b>	<b>2.3000e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>228.8835</b>	<b>228.8835</b>	<b>6.5800e-003</b>		<b>229.0480</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					5.8971	0.0000	5.8971	3.0307	0.0000	3.0307			0.0000			0.0000
Off-Road	3.5269	39.4779	15.6789	0.0356		1.7798	1.7798	1.6374	1.6374	1.6374	0.0000	3,448.255 <sub>2</sub>	3,448.255 <sub>2</sub>	1.1152		3,476.136 <sub>1</sub>
<b>Total</b>	<b>3.5269</b>	<b>39.4779</b>	<b>15.6789</b>	<b>0.0356</b>	<b>5.8971</b>	<b>1.7798</b>	<b>7.6769</b>	<b>3.0307</b>	<b>1.6374</b>	<b>4.6681</b>	<b>0.0000</b>	<b>3,448.255<sub>2</sub></b>	<b>3,448.255<sub>2</sub></b>	<b>1.1152</b>		<b>3,476.136<sub>1</sub></b>

KL Fenix - South Coast AQMD Air District, Summer

**3.3 Grading - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.0905</b>	<b>0.0608</b>	<b>0.8176</b>	<b>2.3000e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>228.8835</b>	<b>228.8835</b>	<b>6.5800e-003</b>		<b>229.0480</b>

**3.4 Trenching - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0450	11.8698	10.6971	0.0291		0.4367	0.4367		0.4018	0.4018		2,819.8506	2,819.8506	0.9120		2,842.6505
<b>Total</b>	<b>1.0450</b>	<b>11.8698</b>	<b>10.6971</b>	<b>0.0291</b>		<b>0.4367</b>	<b>0.4367</b>		<b>0.4018</b>	<b>0.4018</b>		<b>2,819.8506</b>	<b>2,819.8506</b>	<b>0.9120</b>		<b>2,842.6505</b>

KL Fenix - South Coast AQMD Air District, Summer

**3.4 Trenching - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003		54.9759
Worker	0.0724	0.0487	0.6541	1.8400e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		183.1068	183.1068	5.2600e-003		183.2384
<b>Total</b>	<b>0.0790</b>	<b>0.2585</b>	<b>0.7041</b>	<b>2.3500e-003</b>	<b>0.1916</b>	<b>2.4000e-003</b>	<b>0.1940</b>	<b>0.0511</b>	<b>2.2400e-003</b>	<b>0.0534</b>		<b>237.9965</b>	<b>237.9965</b>	<b>8.7100e-003</b>		<b>238.2143</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.0450	11.8698	10.6971	0.0291		0.4367	0.4367		0.4018	0.4018	0.0000	2,819.8506	2,819.8506	0.9120		2,842.6505
<b>Total</b>	<b>1.0450</b>	<b>11.8698</b>	<b>10.6971</b>	<b>0.0291</b>		<b>0.4367</b>	<b>0.4367</b>		<b>0.4018</b>	<b>0.4018</b>	<b>0.0000</b>	<b>2,819.8506</b>	<b>2,819.8506</b>	<b>0.9120</b>		<b>2,842.6505</b>



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**3.4 Trenching - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003		54.9759
Worker	0.0724	0.0487	0.6541	1.8400e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		183.1068	183.1068	5.2600e-003		183.2384
Total	0.0790	0.2585	0.7041	2.3500e-003	0.1916	2.4000e-003	0.1940	0.0511	2.2400e-003	0.0534		237.9965	237.9965	8.7100e-003		238.2143

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063	2,553.063	0.6229		2,568.634
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063	2,553.063	0.6229		2,568.634

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**3.5 Building Construction - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003		54.9759
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003		343.5720
<b>Total</b>	<b>0.1423</b>	<b>0.3011</b>	<b>1.2764</b>	<b>3.9600e-003</b>	<b>0.3481</b>	<b>3.5800e-003</b>	<b>0.3517</b>	<b>0.0926</b>	<b>3.3300e-003</b>	<b>0.0960</b>		<b>398.2149</b>	<b>398.2149</b>	<b>0.0133</b>		<b>398.5479</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

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**3.5 Building Construction - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003		54.9759
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003		343.5720
<b>Total</b>	<b>0.1423</b>	<b>0.3011</b>	<b>1.2764</b>	<b>3.9600e-003</b>	<b>0.3481</b>	<b>3.5800e-003</b>	<b>0.3517</b>	<b>0.0926</b>	<b>3.3300e-003</b>	<b>0.0960</b>		<b>398.2149</b>	<b>398.2149</b>	<b>0.0133</b>		<b>398.5479</b>

**3.6 Paving - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	0.1175	0.7364	0.6169	1.4200e-003		0.0286	0.0286		0.0286	0.0286		101.0326	101.0326	0.0105		101.2949
Paving	0.7675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8851</b>	<b>0.7364</b>	<b>0.6169</b>	<b>1.4200e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>		<b>101.0326</b>	<b>101.0326</b>	<b>0.0105</b>		<b>101.2949</b>

## KL Fenix - South Coast AQMD Air District, Summer

**3.6 Paving - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.6296	0.1499	1.5400e-003	0.0384	3.1200e-003	0.0415	0.0111	2.9800e-003	0.0140		164.6691	164.6691	0.0103		164.9275
Worker	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.1102</b>	<b>0.6904</b>	<b>0.9676</b>	<b>3.8400e-003</b>	<b>0.2620</b>	<b>4.8200e-003</b>	<b>0.2668</b>	<b>0.0704</b>	<b>4.5400e-003</b>	<b>0.0749</b>		<b>393.5526</b>	<b>393.5526</b>	<b>0.0169</b>		<b>393.9756</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	0.1175	0.7364	0.6169	1.4200e-003		0.0286	0.0286		0.0286	0.0286	0.0000	101.0326	101.0326	0.0105		101.2949
Paving	0.7675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8851</b>	<b>0.7364</b>	<b>0.6169</b>	<b>1.4200e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>	<b>0.0000</b>	<b>101.0326</b>	<b>101.0326</b>	<b>0.0105</b>		<b>101.2949</b>

KL Fenix - South Coast AQMD Air District, Summer

**3.6 Paving - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.6296	0.1499	1.5400e-003	0.0384	3.1200e-003	0.0415	0.0111	2.9800e-003	0.0140		164.6691	164.6691	0.0103		164.9275
Worker	0.0905	0.0608	0.8176	2.3000e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		228.8835	228.8835	6.5800e-003		229.0480
<b>Total</b>	<b>0.1102</b>	<b>0.6904</b>	<b>0.9676</b>	<b>3.8400e-003</b>	<b>0.2620</b>	<b>4.8200e-003</b>	<b>0.2668</b>	<b>0.0704</b>	<b>4.5400e-003</b>	<b>0.0749</b>		<b>393.5526</b>	<b>393.5526</b>	<b>0.0169</b>		<b>393.9756</b>

**3.7 Architectural Coating - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Archit. Coating	1.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.2873	2.1885	3.3600e-003		0.0286	0.0286		0.0264	0.0264		325.2397	325.2397	0.1052		327.8694
<b>Total</b>	<b>1.4867</b>	<b>1.2873</b>	<b>2.1885</b>	<b>3.3600e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0264</b>	<b>0.0264</b>		<b>325.2397</b>	<b>325.2397</b>	<b>0.1052</b>		<b>327.8694</b>

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**3.7 Architectural Coating - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003		54.9759
Worker	0.0272	0.0183	0.2453	6.9000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		68.6651	68.6651	1.9700e-003		68.7144
<b>Total</b>	<b>0.0337</b>	<b>0.2281</b>	<b>0.2953</b>	<b>1.2000e-003</b>	<b>0.0799</b>	<b>1.5500e-003</b>	<b>0.0814</b>	<b>0.0215</b>	<b>1.4600e-003</b>	<b>0.0229</b>		<b>123.5547</b>	<b>123.5547</b>	<b>5.4200e-003</b>		<b>123.6903</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	1.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.2873	2.1885	3.3600e-003		0.0286	0.0286	0.0264	0.0264	0.0264	0.0000	325.2397	325.2397	0.1052		327.8694
<b>Total</b>	<b>1.4867</b>	<b>1.2873</b>	<b>2.1885</b>	<b>3.3600e-003</b>		<b>0.0286</b>	<b>0.0286</b>	<b>0.0264</b>	<b>0.0264</b>	<b>0.0264</b>	<b>0.0000</b>	<b>325.2397</b>	<b>325.2397</b>	<b>0.1052</b>		<b>327.8694</b>

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**3.7 Architectural Coating - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003		54.9759
Worker	0.0272	0.0183	0.2453	6.9000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		68.6651	68.6651	1.9700e-003		68.7144
Total	0.0337	0.2281	0.2953	1.2000e-003	0.0799	1.5500e-003	0.0814	0.0215	1.4600e-003	0.0229		123.5547	123.5547	5.4200e-003		123.6903

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## KL Fenix - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4202	2.1330	5.7396	0.0208	1.6662	0.0162	1.6824	0.4458	0.0151	0.4610		2,118,2912	2,118,2912	0.1003		2,120.7998
Unmitigated	0.4202	2.1330	5.7396	0.0208	1.6662	0.0162	1.6824	0.4458	0.0151	0.4610		2,118,2912	2,118,2912	0.1003		2,120.7998

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
General Office Building	154.97	34.56	14.75	379,292	379,292	379,292	379,292
Parking Lot	0.00	0.00	0.00				
Unrefrigerated Warehouse-No Rail	66.36	66.36	66.36	284,400	284,400	284,400	284,400
Total	221.33	100.92	81.11	663,692	663,692	663,692	663,692

## 4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	6.90	33.00	48.00	19.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	6.90	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	6.90	59.00	0.00	41.00	41.00	92	5	3

## 4.4 Fleet Mix



## KL Fenix - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Unrefrigerated Warehouse-No Rail	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Natural Gas Mitigated	5.3400e-003	0.0485	0.0408	2.9000e-004	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	58.2193	58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653
Natural Gas Unmitigated	5.3400e-003	0.0485	0.0408	2.9000e-004	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	58.2193	58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653

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**5.2 Energy by Land Use - NaturalGas****Unmitigated**

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
General Office Building	400.714	4.3200e-003	0.0393	0.0330	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003		47.1428	47.1428	9.0000e-004	8.6000e-004	47.4229
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	94.1507	1.0200e-003	9.2300e-003	7.7500e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0766	11.0766	2.1000e-004	2.0000e-004	11.1424
<b>Total</b>		<b>5.3400e-003</b>	<b>0.0485</b>	<b>0.0408</b>	<b>3.0000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>58.2193</b>	<b>58.2193</b>	<b>1.1100e-003</b>	<b>1.0600e-003</b>	<b>58.5653</b>

**Mitigated**

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
General Office Building	0.400714	4.3200e-003	0.0393	0.0330	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003		47.1428	47.1428	9.0000e-004	8.6000e-004	47.4229
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.0941507	1.0200e-003	9.2300e-003	7.7500e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0766	11.0766	2.1000e-004	2.0000e-004	11.1424
<b>Total</b>		<b>5.3400e-003</b>	<b>0.0485</b>	<b>0.0408</b>	<b>3.0000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>58.2193</b>	<b>58.2193</b>	<b>1.1100e-003</b>	<b>1.0600e-003</b>	<b>58.5653</b>

## KL Fenix - South Coast AQMD Air District, Summer

**6.0 Area Detail****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
Unmitigated	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155

KL Fenix - South Coast AQMD Air District, Summer

**6.2 Area by SubCategory****Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4000e-004	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
<b>Total</b>	<b>1.2687</b>	<b>6.0000e-005</b>	<b>6.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0155</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4000e-004	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
<b>Total</b>	<b>1.2687</b>	<b>6.0000e-005</b>	<b>6.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0155</b>

**7.0 Water Detail**

KL Fenix - South Coast AQMD Air District, Summer

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

KL Fenix - South Coast AQMD Air District, Winter

**KL Fenix****South Coast AQMD Air District, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.05	1000sqft	0.32	14,050.00	0
Unrefrigerated Warehouse-No Rail	39.50	1000sqft	0.91	39,500.00	0
Parking Lot	12.89	Acre	12.89	561,520.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	628.13	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

KL Fenix - South Coast AQMD Air District, Winter

Project Characteristics - See Section 1.0 Project Characteristics. Operational year 2021 consistent with traffic analysis. CO2 Intensity factor adjusted for 2017 SCE Power Content Label assuming 29% renewables (628.13lb/MWh).

Land Use - Land Use - See 1.1 Land Usage.

Construction Phase - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Default values. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Trips and VMT - Per applicant provided information.

Grading - Default values

Architectural Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Area Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Energy Use - Default Values.

Water And Wastewater - Default Values

Solid Waste - Default Values

Construction Off-road Equipment Mitigation -

Water Mitigation - Per applicant provided information, low-flow indoor water use equipment will be utilized for the project.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	5.00
tblArchitecturalCoating	EF_Parking	100.00	5.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	5

## KL Fenix - South Coast AQMD Air District, Winter

tblAreaCoating	Area_EF_Nonresidential_Interior	100	5
tblAreaCoating	Area_EF_Parking	100	5
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	153.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	11.00
tblLandUse	LandUseSquareFeet	561,488.40	561,520.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	628.13
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	101.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00



KL Fenix - South Coast AQMD Air District, Winter

tblTripsAndVMT	WorkerTripNumber	257.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	51.00	6.00

2.0 Emissions Summary

KL Fenix - South Coast AQMD Air District, Winter

**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
2020	3.6256	39.5445	18.0085	0.0377	13.3282	1.7815	15.1097	6.7943	1.6389	8.4332	0.0000	3,662.328 2	3,662.328 2	1.1214	0.0000	3,690.362 6
Maximum	3.6256	39.5445	18.0085	0.0377	13.3282	1.7815	15.1097	6.7943	1.6389	8.4332	0.0000	3,662.328 2	3,662.328 2	1.1214	0.0000	3,690.362 6

**Mitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
2020	3.6256	39.5445	18.0085	0.0377	6.1207	1.7815	7.9021	3.0900	1.6389	4.7290	0.0000	3,662.328 2	3,662.328 2	1.1214	0.0000	3,690.362 6
Maximum	3.6256	39.5445	18.0085	0.0377	6.1207	1.7815	7.9021	3.0900	1.6389	4.7290	0.0000	3,662.328 2	3,662.328 2	1.1214	0.0000	3,690.362 6

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	54.08	0.00	47.70	54.52	0.00	43.92	0.00	0.00	0.00	0.00	0.00	0.00

## KL Fenix - South Coast AQMD Air District, Winter

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Area	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
Energy	5.3400e-003	0.0485	0.0408	2.9000e-004		3.6900e-003	3.6900e-003		3.6900e-003	3.6900e-003		58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653
Mobile	0.3998	2.1802	5.3584	0.0197	1.6662	0.0163	1.6825	0.4458	0.0152	0.4610		2,006.0924	2,006.0924	0.1001		2,008.5936
<b>Total</b>	<b>1.6739</b>	<b>2.2287</b>	<b>5.4059</b>	<b>0.0200</b>	<b>1.6662</b>	<b>0.0200</b>	<b>1.6862</b>	<b>0.4458</b>	<b>0.0189</b>	<b>0.4648</b>		<b>2,064.3263</b>	<b>2,064.3263</b>	<b>0.1012</b>	<b>1.0700e-003</b>	<b>2,067.1745</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Area	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
Energy	5.3400e-003	0.0485	0.0408	2.9000e-004		3.6900e-003	3.6900e-003		3.6900e-003	3.6900e-003		58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653
Mobile	0.3998	2.1802	5.3584	0.0197	1.6662	0.0163	1.6825	0.4458	0.0152	0.4610		2,006.0924	2,006.0924	0.1001		2,008.5936
<b>Total</b>	<b>1.6739</b>	<b>2.2287</b>	<b>5.4059</b>	<b>0.0200</b>	<b>1.6662</b>	<b>0.0200</b>	<b>1.6862</b>	<b>0.4458</b>	<b>0.0189</b>	<b>0.4648</b>		<b>2,064.3263</b>	<b>2,064.3263</b>	<b>0.1012</b>	<b>1.0700e-003</b>	<b>2,067.1745</b>

## KL Fenix - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/15/2020	5	11	
2	Grading	Grading	1/16/2020	2/15/2020	5	22	
3	Trenching	Trenching	2/16/2020	3/31/2020	5	32	
4	Building Construction	Building Construction	4/1/2020	10/31/2020	5	153	
5	Paving	Paving	11/1/2020	12/31/2020	5	44	
6	Architectural Coating	Architectural Coating	12/1/2020	12/31/2020	5	23	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 22****Acres of Paving: 12.89****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 79,500; Non-Residential Outdoor: 26,500; Striped Parking Area: 33,691 (Architectural Coating – sqft)****OffRoad Equipment**

## KL Fenix - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Bore/Drill Rigs	2	8.00	221	0.50
Trenching	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

## KL Fenix - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	30.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	20.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	6.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.1590	22.6645	8.2632	0.0171		1.1100	1.1100	1.0212	1.0212	1.0212		1,654.6850	1,654.6850	0.5352		1,668.0640
Total	2.1590	22.6645	8.2632	0.0171	12.0442	1.1100	13.1541	6.6205	1.0212	7.6416		1,654.6850	1,654.6850	0.5352		1,668.0640

## KL Fenix - South Coast AQMD Air District, Winter

**3.2 Site Preparation - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
<b>Total</b>	<b>0.0395</b>	<b>0.0266</b>	<b>0.2945</b>	<b>8.6000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>85.6292</b>	<b>85.6292</b>	<b>2.4600e-003</b>		<b>85.6906</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	2.1590	22.6645	8.2632	0.0171		1.1100	1.1100	1.0212	1.0212	1.0212	0.0000	1,654.6850	1,654.6850	0.5352		1,668.0640
<b>Total</b>	<b>2.1590</b>	<b>22.6645</b>	<b>8.2632</b>	<b>0.0171</b>	<b>5.4199</b>	<b>1.1100</b>	<b>6.5298</b>	<b>2.9792</b>	<b>1.0212</b>	<b>4.0004</b>	<b>0.0000</b>	<b>1,654.6850</b>	<b>1,654.6850</b>	<b>0.5352</b>		<b>1,668.0640</b>

KL Fenix - South Coast AQMD Air District, Winter

**3.2 Site Preparation - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
<b>Total</b>	<b>0.0395</b>	<b>0.0266</b>	<b>0.2945</b>	<b>8.6000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>85.6292</b>	<b>85.6292</b>	<b>2.4600e-003</b>		<b>85.6906</b>

**3.3 Grading - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					13.1047	0.0000	13.1047	6.7350	0.0000	6.7350			0.0000			0.0000
Off-Road	3.5269	39.4779	15.6789	0.0356		1.7798	1.7798	1.6374	1.6374	1.6374		3,448.255 <sub>2</sub>	3,448.255 <sub>2</sub>	1.1152		3,476.136 <sub>1</sub>
<b>Total</b>	<b>3.5269</b>	<b>39.4779</b>	<b>15.6789</b>	<b>0.0356</b>	<b>13.1047</b>	<b>1.7798</b>	<b>14.8844</b>	<b>6.7350</b>	<b>1.6374</b>	<b>8.3723</b>		<b>3,448.255<sub>2</sub></b>	<b>3,448.255<sub>2</sub></b>	<b>1.1152</b>		<b>3,476.136<sub>1</sub></b>



## KL Fenix - South Coast AQMD Air District, Winter

**3.3 Grading - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
<b>Total</b>	<b>0.0987</b>	<b>0.0666</b>	<b>0.7362</b>	<b>2.1500e-003</b>	<b>0.2236</b>	<b>1.7000e-003</b>	<b>0.2253</b>	<b>0.0593</b>	<b>1.5600e-003</b>	<b>0.0609</b>		<b>214.0730</b>	<b>214.0730</b>	<b>6.1400e-003</b>		<b>214.2265</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					5.8971	0.0000	5.8971	3.0307	0.0000	3.0307			0.0000			0.0000
Off-Road	3.5269	39.4779	15.6789	0.0356		1.7798	1.7798	1.6374	1.6374	1.6374	0.0000	3,448.255 <sub>2</sub>	3,448.255 <sub>2</sub>	1.1152		3,476.136 <sub>1</sub>
<b>Total</b>	<b>3.5269</b>	<b>39.4779</b>	<b>15.6789</b>	<b>0.0356</b>	<b>5.8971</b>	<b>1.7798</b>	<b>7.6769</b>	<b>3.0307</b>	<b>1.6374</b>	<b>4.6681</b>	<b>0.0000</b>	<b>3,448.255<sub>2</sub></b>	<b>3,448.255<sub>2</sub></b>	<b>1.1152</b>		<b>3,476.136<sub>1</sub></b>

KL Fenix - South Coast AQMD Air District, Winter

**3.3 Grading - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
Total	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265

**3.4 Trenching - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0450	11.8698	10.6971	0.0291		0.4367	0.4367		0.4018	0.4018		2,819.8506	2,819.8506	0.9120		2,842.6505
Total	1.0450	11.8698	10.6971	0.0291		0.4367	0.4367		0.4018	0.4018		2,819.8506	2,819.8506	0.9120		2,842.6505

## KL Fenix - South Coast AQMD Air District, Winter

**3.4 Trenching - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.8800e-003	0.2097	0.0557	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.0790	0.0533	0.5889	1.7200e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		171.2584	171.2584	4.9100e-003		171.3812
<b>Total</b>	<b>0.0858</b>	<b>0.2629</b>	<b>0.6447</b>	<b>2.2200e-003</b>	<b>0.1916</b>	<b>2.4200e-003</b>	<b>0.1941</b>	<b>0.0511</b>	<b>2.2600e-003</b>	<b>0.0534</b>		<b>224.5610</b>	<b>224.5610</b>	<b>8.6100e-003</b>		<b>224.7763</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.0450	11.8698	10.6971	0.0291		0.4367	0.4367		0.4018	0.4018	0.0000	2,819.8506	2,819.8506	0.9120		2,842.6505
<b>Total</b>	<b>1.0450</b>	<b>11.8698</b>	<b>10.6971</b>	<b>0.0291</b>		<b>0.4367</b>	<b>0.4367</b>		<b>0.4018</b>	<b>0.4018</b>	<b>0.0000</b>	<b>2,819.8506</b>	<b>2,819.8506</b>	<b>0.9120</b>		<b>2,842.6505</b>

KL Fenix - South Coast AQMD Air District, Winter

**3.4 Trenching - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.8800e-003	0.2097	0.0557	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.0790	0.0533	0.5889	1.7200e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2500e-003	0.0487		171.2584	171.2584	4.9100e-003		171.3812
Total	0.0858	0.2629	0.6447	2.2200e-003	0.1916	2.4200e-003	0.1941	0.0511	2.2600e-003	0.0534		224.5610	224.5610	8.6100e-003		224.7763

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063	2,553.063	0.6229		2,568.634
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063	2,553.063	0.6229		2,568.634

KL Fenix - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.8800e-003	0.2097	0.0557	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
<b>Total</b>	<b>0.1549</b>	<b>0.3096</b>	<b>1.1600</b>	<b>3.7200e-003</b>	<b>0.3481</b>	<b>3.6000e-003</b>	<b>0.3517</b>	<b>0.0926</b>	<b>3.3500e-003</b>	<b>0.0960</b>		<b>374.4121</b>	<b>374.4121</b>	<b>0.0129</b>		<b>374.7348</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063	2,553.063	0.6229		2,568.634
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.063</b>	<b>2,553.063</b>	<b>0.6229</b>		<b>2,568.634</b>

KL Fenix - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.8800e-003	0.2097	0.0657	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
<b>Total</b>	<b>0.1549</b>	<b>0.3096</b>	<b>1.1600</b>	<b>3.7200e-003</b>	<b>0.3481</b>	<b>3.6000e-003</b>	<b>0.3517</b>	<b>0.0926</b>	<b>3.3500e-003</b>	<b>0.0960</b>		<b>374.4121</b>	<b>374.4121</b>	<b>0.0129</b>		<b>374.7348</b>

**3.6 Paving - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	0.1175	0.7364	0.6169	1.4200e-003		0.0286	0.0286		0.0286	0.0286		101.0326	101.0326	0.0105		101.2949
Paving	0.7675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8851</b>	<b>0.7364</b>	<b>0.6169</b>	<b>1.4200e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>		<b>101.0326</b>	<b>101.0326</b>	<b>0.0105</b>		<b>101.2949</b>

## KL Fenix - South Coast AQMD Air District, Winter

**3.6 Paving - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0206	0.6290	0.1672	1.5000e-003	0.0384	3.1700e-003	0.0416	0.0111	3.0300e-003	0.0141		159.9077	159.9077	0.0111		160.1853
Worker	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
<b>Total</b>	<b>0.1193</b>	<b>0.6956</b>	<b>0.9033</b>	<b>3.6500e-003</b>	<b>0.2620</b>	<b>4.8700e-003</b>	<b>0.2668</b>	<b>0.0704</b>	<b>4.5900e-003</b>	<b>0.0749</b>		<b>373.9807</b>	<b>373.9807</b>	<b>0.0172</b>		<b>374.4118</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	0.1175	0.7364	0.6169	1.4200e-003		0.0286	0.0286		0.0286	0.0286	0.0000	101.0326	101.0326	0.0105		101.2949
Paving	0.7675					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8851</b>	<b>0.7364</b>	<b>0.6169</b>	<b>1.4200e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>	<b>0.0000</b>	<b>101.0326</b>	<b>101.0326</b>	<b>0.0105</b>		<b>101.2949</b>

KL Fenix - South Coast AQMD Air District, Winter

**3.6 Paving - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0206	0.6290	0.1672	1.5000e-003	0.0384	3.1700e-003	0.0416	0.0111	3.0300e-003	0.0141		159.9077	159.9077	0.0111		160.1853
Worker	0.0987	0.0666	0.7362	2.1500e-003	0.2236	1.7000e-003	0.2253	0.0593	1.5600e-003	0.0609		214.0730	214.0730	6.1400e-003		214.2265
<b>Total</b>	<b>0.1193</b>	<b>0.6956</b>	<b>0.9033</b>	<b>3.6500e-003</b>	<b>0.2620</b>	<b>4.8700e-003</b>	<b>0.2668</b>	<b>0.0704</b>	<b>4.5900e-003</b>	<b>0.0749</b>		<b>373.9807</b>	<b>373.9807</b>	<b>0.0172</b>		<b>374.4118</b>

**3.7 Architectural Coating - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Archit. Coating	1.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.2873	2.1885	3.3600e-003		0.0286	0.0286		0.0264	0.0264		325.2397	325.2397	0.1052		327.8694
<b>Total</b>	<b>1.4867</b>	<b>1.2873</b>	<b>2.1885</b>	<b>3.3600e-003</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0264</b>	<b>0.0264</b>		<b>325.2397</b>	<b>325.2397</b>	<b>0.1052</b>		<b>327.8694</b>



## KL Fenix - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.8800e-003	0.2097	0.0557	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.0296	0.0200	0.2209	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		64.2219	64.2219	1.8400e-003		64.2679
<b>Total</b>	<b>0.0365</b>	<b>0.2296</b>	<b>0.2766</b>	<b>1.1400e-003</b>	<b>0.0799</b>	<b>1.5700e-003</b>	<b>0.0814</b>	<b>0.0215</b>	<b>1.4800e-003</b>	<b>0.0229</b>		<b>117.5245</b>	<b>117.5245</b>	<b>5.5400e-003</b>		<b>117.6630</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.4075					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.2873	2.1885	3.3600e-003		0.0286	0.0286	0.0264	0.0264	0.0264	0.0000	325.2397	325.2397	0.1052		327.8694
<b>Total</b>	<b>1.4867</b>	<b>1.2873</b>	<b>2.1885</b>	<b>3.3600e-003</b>		<b>0.0286</b>	<b>0.0286</b>	<b>0.0264</b>	<b>0.0264</b>	<b>0.0264</b>	<b>0.0000</b>	<b>325.2397</b>	<b>325.2397</b>	<b>0.1052</b>		<b>327.8694</b>

KL Fenix - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.8800e-003	0.2097	0.0557	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.0296	0.0200	0.2209	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		64.2219	64.2219	1.8400e-003		64.2679
Total	0.0365	0.2296	0.2766	1.1400e-003	0.0799	1.5700e-003	0.0814	0.0215	1.4800e-003	0.0229		117.5245	117.5245	5.5400e-003		117.6630

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## KL Fenix - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3998	2.1802	5.3584	0.0197	1.6662	0.0163	1.6825	0.4458	0.0152	0.4610		2,006.0924	2,006.0924	0.1001		2,008.5936
Unmitigated	0.3998	2.1802	5.3584	0.0197	1.6662	0.0163	1.6825	0.4458	0.0152	0.4610		2,006.0924	2,006.0924	0.1001		2,008.5936

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
General Office Building	154.97	34.56	14.75	379,292	379,292	379,292	379,292
Parking Lot	0.00	0.00	0.00				
Unrefrigerated Warehouse-No Rail	66.36	66.36	66.36	284,400	284,400	284,400	284,400
Total	221.33	100.92	81.11	663,692	663,692	663,692	663,692

## 4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	6.90	33.00	48.00	19.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	6.90	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	6.90	59.00	0.00	41.00	41.00	92	5	3

## 4.4 Fleet Mix

## KL Fenix - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Unrefrigerated Warehouse-No Rail	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Natural Gas Mitigated	5.3400e-003	0.0485	0.0408	2.9000e-004	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	58.2193	58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653
Natural Gas Unmitigated	5.3400e-003	0.0485	0.0408	2.9000e-004	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	3.6900e-003	58.2193	58.2193	58.2193	1.1200e-003	1.0700e-003	58.5653

KL Fenix - South Coast AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
General Office Building	400.714	4.3200e-003	0.0393	0.0330	2.4000e-004	2.9900e-003	2.9900e-003	2.9900e-003	2.9900e-003	2.9900e-003	2.9900e-003	47.1428	47.1428	47.1428	9.0000e-004	8.6000e-004	47.4229
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	94.1507	1.0200e-003	9.2300e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	11.0766	11.0766	11.0766	2.1000e-004	2.0000e-004	11.1424
<b>Total</b>		<b>5.3400e-003</b>	<b>0.0485</b>	<b>0.0408</b>	<b>3.0000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>58.2193</b>	<b>58.2193</b>	<b>1.1100e-003</b>	<b>1.0600e-003</b>	<b>58.5653</b>

**Mitigated**

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
General Office Building	0.400714	4.3200e-003	0.0393	0.0330	2.4000e-004	2.9900e-003	2.9900e-003	2.9900e-003	2.9900e-003	2.9900e-003	2.9900e-003	47.1428	47.1428	47.1428	9.0000e-004	8.6000e-004	47.4229
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.0941507	1.0200e-003	9.2300e-003	7.7500e-003	6.0000e-005	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	7.0000e-004	11.0766	11.0766	11.0766	2.1000e-004	2.0000e-004	11.1424
<b>Total</b>		<b>5.3400e-003</b>	<b>0.0485</b>	<b>0.0408</b>	<b>3.0000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>58.2193</b>	<b>58.2193</b>	<b>1.1100e-003</b>	<b>1.0600e-003</b>	<b>58.5653</b>

KL Fenix - South Coast AQMD Air District, Winter

**6.0 Area Detail****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
Unmitigated	1.2687	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155

KL Fenix - South Coast AQMD Air District, Winter

**6.2 Area by SubCategory****Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4000e-004	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
<b>Total</b>	<b>1.2687</b>	<b>6.0000e-005</b>	<b>6.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0155</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.8700e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2592					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4000e-004	6.0000e-005	6.8100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0145	0.0145	4.0000e-005		0.0155
<b>Total</b>	<b>1.2687</b>	<b>6.0000e-005</b>	<b>6.8100e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0145</b>	<b>0.0145</b>	<b>4.0000e-005</b>		<b>0.0155</b>

**7.0 Water Detail**

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation



# APPENDIX B

## *EMFAC2017 Files*

Table 1. Operational Mobile Source Vehicle Data

Vehicle Type	EMFAC Class	Average Daily Trip Length (miles)	Average Daily Trips	Annual Trips*	Peak Daily VMT	Annual VMT
Passenger Vehicles**	LDA, LDT1, LDT2 LHDT1, LHDT2,	14.7	546	199,290	8,026	2,929,563
Trucks***	MHDT, HHDT	0.78	641	233,965	502	183,335

\*365 days/year (52 weeks per year, 7 days per week)

\*\* Based on CalEEMod worker trip length estimation, See Appendix B, CalEEMod output.

\*\*\* Average daily trip length includes offsite distance and 0.42 miles of onsite truck operation

	Percent of Total	Percent of Trucks	Number of Trucks
2-Axle Trucks	6.1%	11%	72 LHDT1 & LHDT2
3-Axle Trucks	13.9%	26%	165 MHDT
4+-Axle Trucks	34.0%	63%	404 HHDT
	54%	100%	641

LDA = light duty automobile; LDT1 = light duty trucks (0 to 3,750 pounds); LDT2 = light duty trucks (3,751 to 5,750 pounds); MDV = medium-duty trucks (5,751 to 8,500 pounds); LHDT1 = light heavy-duty trucks (8,501 to 10,000 pounds); LHDT2 = light heavy-duty trucks (10,001 to 14,000 pounds); MHD = medium heavy-duty trucks; HHD = heavy heavy-duty trucks; OBUS = other buses; UBUS = urban buses; MCY = motorcycles; SBUS = school buses; MH = motor homes.

Table 2. Paved Road Fugitive Emissions - Operation Mobile Sources

Equation:

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

Where:

		Units
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>  2.4 tons

Notes/References:

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.1

For daily emissions it is assumed to have no precipitation.

Truck Weight Assumptions

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)
Heavy Heavy-Duty Truck	HHDT	>33,000	17
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

Employee Vehicles Evaluated:

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

Reference:

Source: CalEEMod2016.3.1 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors

	PM10 Paved Road (lb/VMT)	PM2.5 Paved Road (lb/VMT)	PM10 Paved Road (g/VMT)	PM2.5 Paved Road (g/VMT)
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736

Table 3. Operation Mobile Source Emissions Summary - EMFAC17 (Emission Factors)

Emission Factors																		
Vehicle Type	EMFAC Class	Average Daily Trip Length (miles)	Avg. Daily Trips (trips/day)	Avg. Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)	Idling Minutes per Day (min/day)	ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O		
Passenger Vehicles																		
	Running Exhaust, Running Loss, Tire Wear, and Break Wear (grams/mile)																	
	LDA, LDT1, LDT2	14.7	546	8,026	199,290	2,929,563	N/A	0.018206	0.065782	0.927892	0.00297	0.002014	0.001855	300.2684	0	0.028084		
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)																	
								0.84341	0.22883	2.31947	0.000588	0.002022	0.00186	59.43645	0.060286	0.028093		
Trucks								Paved Road (PM only, grams/mile)										
								N/A	N/A	N/A	N/A	0.29985	0.073599	N/A	N/A	N/A		
	Running Exhaust, Running Loss, Tire Wear, and Break Wear (grams/mile)																	
	LHDT1, LHDT2, MHDT, HHDT	0.78	641	502	233,965	183,335	15 <sup>a</sup> 10 <sup>b</sup>	0.11518	3.28191	0.702001	0.012214	0.155262	0.05684	1318.044	0.18881	0.005363		
	Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)																	
								0.148285	1.510341	0.521637	4.58E-05	6.97E-05	6.41E-05	4.620543	0.005177	0.005369		
Idling: Loading Dock Trucks (grams/minute/vehicle) <sup>a</sup>																		
								0.058283	0.706668	0.705678	0.001033	0.00219	0.002095	109.8602	0.008721	0.016067		
Idling: Parking Only Trucks (grams/minute/vehicle) <sup>b</sup>																		
								0.058283	0.706668	0.705678	0.001033	0.00219	0.002095	109.8602	0.008721	0.016067		
Paved Road (PM only, grams/mile)																		
								N/A	N/A	N/A	N/A	1.680004	0.412365	N/A	N/A	N/A		

<sup>a</sup> Trucks with loading dock use, include three 5-minute idle events including entrance gate, loading dock, and exit gate. 24 Trucks per day estimated to use the loading dock.

<sup>b</sup> Trucks for parking only include two 5-minute idle events including entrance gate and exit gate. 297 trucks per day estimated to use only parking.

Table 3a. Operation Mobile Source Emissions Summary - EMFAC17 (Daily and Annual Emissions)

Emissions - Daily (Pounds/day)											Emissions - Annual (Tons/yr)											(Metric Tons/yr)				
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e						
Passenger Vehicles																										
Running Exhaust, Running Loss, Tire Wear, and Break Wear (grams/mile)																										
0.322	1.164	16.419	0.053	0.036	0.033	-	5,313.176	-	0.497	5,460.27	0.06	0.21	3.00	0.01	0.01	0.01	0.01	879.66	-	0.08	904.02					
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)																										
1.015	0.275	2.792	0.001	0.002	0.002	71.545	0.073	0.034		83.22	0.19	0.05	0.51	0.00	0.00	0.00	0.00	11.85	0.01	0.01	13.78					
Paved Road (PM only, grams/mile)																										
N/A	N/A	N/A	N/A	5.31	1.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.97	0.24	N/A	N/A	N/A	N/A	N/A					
1.34	1.44	19.21	0.05	5.34	1.34	5,384.72	0.07	0.53	5,543.50		0.24	0.26	3.51	0.01	0.98	0.24	891.51	0.01	0.09	917.80						
Trucks																										
Running Exhaust, Running Loss, Tire Wear, and Break Wear (grams/mile)																										
0.128	3.634	0.777	0.014	0.172	0.063	1,459.544	0.209	0.006	1,466.11		0.02	0.66	0.14	0.00	0.03	0.01	241.65	0.03	0.00	242.73						
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)																										
0.210	2.134	0.737	0.000	0.000	0.000	6,530	0.007	0.008	8.94		0.04	0.39	0.13	0.00	0.00	0.00	1.08	0.00	0.00	1.48						
Idling (grams/minute/vehicle)																										
0.046	0.561	0.560	0.001	0.002	0.002	87.192	0.007	0.013	91.13		0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.05						
Idling (grams/minute/vehicle)																										
0.382	4.627	4.621	0.007	0.014	0.014	719.336	0.057	0.105	751.79		0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.38						
Paved Road (PM only, grams/mile)																										
N/A	N/A	N/A	N/A	1.86	0.46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.34	0.08	N/A	N/A	N/A	N/A	N/A					
0.76	10.96	6.70	0.02	2.05	0.54	2,272.60	0.28	0.13	2,317.97		0.06	1.06	0.28	0.00	0.37	0.09	243.13	0.04	0.00	244.64						
2.10	12.40	25.91	0.07	7.39	1.87	7,657.32	0.35	0.66	7,861.47		0.31	1.32	3.78	0.01	1.35	0.34	1,134.64	0.05	0.09	1,162.43						

Table 4. Operation Mobile Source Emissions Factors – EMFAC17

Emission Factors: Summary													
Vehicle Classes		Fuel	Percent		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
					Running Exhaust, Tire Wear, and Break Wear (grams/mile)								
HHDT	LHDT1&2 Composite	Gas, Diesel, NG	63%		0.125	4.128	0.702	0.014	0.146	0.082	1,520.075	0.265	0.000
MHDT		Gas, Diesel, NG	26%		0.119	2.308	0.704	0.011	0.203	0.000	1,103.632	0.052	0.009
		Gas, Diesel	11%		0.054	0.788	0.695	0.007	0.096	0.043	680.550	0.077	0.027
		LHDT1 Gas, Diesel	N/A		0.054	0.744	0.744	0.007	0.093	0.042	680.237	0.082	0.029
		LHDT2 Gas, Diesel	N/A		0.054	0.963	0.499	0.007	0.110	0.051	681.790	0.056	0.019
HD Composite		All (weighted)	100%		0.115	3.282	0.702	0.012	0.155	0.057	1318.044	0.189	0.005
LDA	LDA, LDT1 & LDT2 Composite	Gas, Electric, & Diesel			0.014	0.047	0.786	0.003	0.002	0.002	279.137	0.000	0.026
LDT1		Gas, Electric, & Diesel			0.040	0.140	1.642	0.003	0.003	0.003	327.725	0.000	0.030
LDT2		Gas, Electric, & Diesel			0.024	0.099	1.122	0.004	0.002	0.002	354.480	0.000	0.034
				0.018	0.066	0.928	0.003	0.002	0.002	300.268	0.000	0.028	
Vehicle Classes		Fuel	Percent		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
					Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap (grams/trip)								
HHDT	LHDT1&2 Composite	Gas, Diesel, NG	63%		0.002	1.886	0.010	0.0000	0.0000	0.0000	0.096	0.000	0.000
MHDT		Gas, Diesel, NG	26%		0.253	1.106	1.507	0.0001	0.0001	0.0001	12.316	0.013	0.009
		Gas, Diesel	11%		0.725	0.335	1.126	0.000	0.000	0.000	12.304	0.017	0.027
		LHDT1 Gas, Diesel	N/A		0.776	0.355	1.200	0.0001	0.0003	0.0003	12.862	0.018	0.029
		LHDT2 Gas, Diesel	N/A		0.514	0.249	0.820	0.0001	0.0002	0.0002	10.011	0.012	0.019
HD Composite		All (weighted)	100%		0.148	1.510	0.522	0.0000	0.0001	0.000	4.621	0.005	0.005
LDA	LDA, LDT1 & LDT2 Composite	Gas, Electric, & Diesel			0.685	0.195	2.169	0.001	0.002	0.002	54.911	0.054	0.026
LDT1		Gas, Electric, & Diesel			1.636	0.280	2.360	0.001	0.003	0.003	65.185	0.078	0.030
LDT2		Gas, Electric, & Diesel			1.057	0.311	2.753	0.001	0.002	0.002	71.014	0.073	0.034
				0.843	0.229	2.319	0.001	0.002	0.002	59.436	0.060	0.028	
Vehicle Classes		Fuel	Percent		ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O
					Idling (grams/Idle-min/vehicle)								
HHDT	LHDT1&2 Composite	Gas, Diesel, NG	63%		0.042	0.575	0.536	0.001	0.001	0.001	104.525	0.002	0.017
MHDT		Gas, Diesel, NG	26%		0.047	1.129	0.785	0.001	0.004	0.003	137.177	0.009	0.019
		Gas, Diesel	11%		0.177	0.480	1.472	0.001	0.006	0.006	77.352	0.044	0.007
		LHDT1 Gas, Diesel	N/A		0.187	0.438	1.560	0.001	0.006	0.006	72.232	0.047	0.006
		LHDT2 Gas, Diesel	N/A		0.135	0.644	1.124	0.001	0.009	0.008	97.658	0.030	0.011
HD Composite		All (weighted)	100%		0.058	0.707	0.706	0.001	0.002	0.002	109.860	0.009	0.016

Notes:

Idle Duration:  
HHDT 109.4 min/day  
MHDT 5.86 min/day  
LHDT1 1.74 min/day  
LHDT2 1.87 min/day

Table 5. Operation Mobile Source Emissions Factors - EMFAC17 ROG

Region	CalYr	VehClass	Fuel	Population	VMT	Trips	ROG_RUNEX (g/mile)	ROG_RUNEX (g/vehicle/day)	ROG_STREX (g/trip)	ROG_HOTSOAK (g/trip)	ROG_RUNLOSS (g/trip)	ROG_RESTLOSS (g/vehicle/day)	ROG_DIURN (g/vehicle/day)	STEX HOTSOAK RUNLOSS ROG RESTLOSS DIURN_Combine d_g/trip (Calculated)
LOS ANGELES	2021	HHDT	GAS	58,23	5,770.22	1,165.03	0.605864293	0	0.001406385	0.158987312	0.8708087	0.058418397	0.083339697	
LOS ANGELES	2021	HHDT	DSL	57,397.74	6,891,921.30	574,782.19	0.120322414	4.746900629	0	0	0	0	0	
LOS ANGELES	2021	HHDT	NG	2,453.78	99,862.01	9,569.74	0.39721719	0.075091025	0	0	0	0	0	
							(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	
							<b>0.124674</b>	<b>4.550939</b>	<b>0.000003</b>	<b>0.000316</b>	<b>0.001733</b>	<b>0.000006</b>	<b>0.000008</b>	<b>0.002066</b>
LOS ANGELES	2021	LDA	GAS	3,998,082.55	154,957,028.28	18,859,046.25	0.014185726	0	0.253449346	0.110513573	0.226216666	0.257623378	0.2755354221	
LOS ANGELES	2021	LDA	DSL	33,364.95	1,336,170.35	157,695.71	0.024322757	0	0	0	0	0	0	
LOS ANGELES	2021	LDA	ELEC	67,210.72	2,697,315.27	336,259.36	0	0	0	0.004888026	0	0.007546262	0.02243127	
							(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	
							<b>0.014030</b>	<b>0.246980</b>	<b>0.107778</b>	<b>0.220443</b>	<b>0.053248</b>	<b>0.056963</b>	<b>0.685412</b>	
LOS ANGELES	2021	LDT1	GAS	451,923.15	17,065,391.26	2,083,892.52	0.040389922	0	0.400742531	0.22084312	0.765112213	0.543578286	0.655542629	
LOS ANGELES	2021	LDT1	DSL	297.04	7,338.12	1,055.65	0.202085427	0	0	0	0	0	0	
LOS ANGELES	2021	LDT1	ELEC	2,539.28	100,849.39	12,618.76	0	0	0	0.004888026	0	0.007533753	0.022424793	
							(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	
							<b>0.040222</b>	<b>0.398130</b>	<b>0.219433</b>	<b>0.760124</b>	<b>0.117124</b>	<b>0.141265</b>	<b>1.636076</b>	
LOS ANGELES	2021	LDT2	GAS	1,370,275.92	52,553,142.22	6,426,189.16	0.023738832	0	0.350798799	0.133899659	0.431625245	0.367554617	0.367998284	
LOS ANGELES	2021	LDT2	DSL	8,126.39	355,535.42	40,234.87	0.023540839	0	0	0	0	0	0	
LOS ANGELES	2021	LDT2	ELEC	11,051.44	368,949.91	56,028.94	0	0	0	0.004888026	0	0.007539316	0.022427674	
							(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	
							<b>0.023573</b>	<b>0.345621</b>	<b>0.131965</b>	<b>0.425255</b>	<b>0.077231</b>	<b>0.077223</b>	<b>1.057295</b>	
LOS ANGELES	2021	LHDT1	GAS	108,025.98	3,955,472.06	1,609,426.19	0.042010923	0.44847654	0.129181903	0.128777813	0.886243693	0.036841523	0.061295718	
LOS ANGELES	2021	LHDT1	DSL	61,698.85	2,667,214.83	776,093.86	0.071437351	0.109759705	0	0	0	0	0	
							(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	
							<b>0.053862</b>	<b>0.325345</b>	<b>0.087154</b>	<b>0.086882</b>	<b>0.597917</b>	<b>0.001668</b>	<b>0.002776</b>	<b>0.776398</b>
LOS ANGELES	2021	LHDT2	GAS	17,947.14	636,046.40	267,385.70	0.029205628	0.449997546	0.13242194	0.127507888	0.849387388	0.03375679	0.055640186	
LOS ANGELES	2021	LHDT2	DSL	24,847.53	1,035,822.88	312,550.66	0.069705751	0.109759705	0	0	0	0	0	
							(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	
							<b>0.054298</b>	<b>0.252448</b>	<b>0.061055</b>	<b>0.058789</b>	<b>0.391619</b>	<b>0.001045</b>	<b>0.001722</b>	<b>0.514229</b>
LOS ANGELES	2021	MHDT	GAS	14,589.78	807,949.86	291,912.24	0.080934283	1.000394554	0.223860636	0.092312097	0.49624272	0.029380192	0.046722353	
LOS ANGELES	2021	MHDT	DSL	66,201.04	4,146,736.97	650,607.29	0.126212126	0.117134325	0	0	0	0	0	
							(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	
							<b>0.118829</b>	<b>0.276640</b>	<b>0.069333</b>	<b>0.028590</b>	<b>0.153694</b>	<b>0.000455</b>	<b>0.000723</b>	<b>0.252795</b>

Table 6. Operation Mobile Source Emissions Factors - EMFAC17 NOx

Region	CalYr	VehClass	Fuel	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
LOS ANGELES	2021	HHDT	GAS		58.23	5,770.22	4.614361111	0	0.829607269
LOS ANGELES	2021	HHDT	DSL		57,397.74	6,891,921.30	4.133996408	64.56185099	1.919982769
LOS ANGELES	2021	HHDT	NG		2,453.78	99,862.01	3.657053769	24.45565299	0
							<b>4.127586</b>	<b>62.856433</b>	<b>1.886433</b>
LOS ANGELES	2021	LDA	GAS		3,998,082.55	154,957,028.28	0.047023073	0	0.200510383
LOS ANGELES	2021	LDA	DSL		33,364.95	1,336,170.35	0.094683863	0	0
LOS ANGELES	2021	LDA	ELEC		67,210.72	2,697,315.27	0	0	0
							<b>0.046626</b>	<b>-</b>	<b>0.195393</b>
LOS ANGELES	2021	LDT1	GAS		451,923.15	17,065,391.26	0.140047933	0	0.28218639
LOS ANGELES	2021	LDT1	DSL		297.04	7,338.12	1.101144441	0	0
LOS ANGELES	2021	LDT1	ELEC		2,539.28	100,849.39	0	0	0
							<b>0.139636</b>	<b>-</b>	<b>0.280347</b>
LOS ANGELES	2021	LDT2	GAS		1,370,275.92	52,553,142.22	0.100162516	0	0.316140418
LOS ANGELES	2021	LDT2	DSL		8,126.39	355,535.42	0.051200052	0	0
LOS ANGELES	2021	LDT2	ELEC		11,051.44	368,949.91	0	0	0
							<b>0.099142</b>	<b>-</b>	<b>0.311475</b>
LOS ANGELES	2021	LHDT1	GAS		108,025.98	3,955,472.06	0.234180734	0.039171232	0.526590427
LOS ANGELES	2021	LHDT1	DSL		61,698.85	2,667,214.83	1.500159323	2.029132934	0
							<b>0.744040</b>	<b>0.762568</b>	<b>0.355272</b>
LOS ANGELES	2021	LHDT2	GAS		17,947.14	636,046.40	0.235662521	0.039276246	0.540950154
LOS ANGELES	2021	LHDT2	DSL		24,847.53	1,035,822.88	1.410390835	2.045394398	0
							<b>0.963477</b>	<b>1.204073</b>	<b>0.249411</b>
LOS ANGELES	2021	MHDT	GAS		14,589.78	807,949.86	0.554981942	0.089098305	0.376401533
LOS ANGELES	2021	MHDT	DSL		66,201.04	4,146,736.97	2.64917837	8.05750137	1.433919796
							<b>2.307682</b>	<b>6.618511</b>	<b>1.106391</b>



Table 7. Operation Mobile Source Emissions Factors - EMFAC17 CO

Region	CalYr	VehClass	Fuel	Population	VMT	Trips		CO_RUNEX (g/mile)	CO_IDLEX (g/vehicle/day)	CO_STREX (g/trip)
LOS ANGELES	2021	HHDT	GAS	58.23		5,770.22	1,165.03	36.76288536	0	5.262382905
LOS ANGELES	2021	HHDT	DSL	57,397.74		6,891,921.30	574,782.19	0.491607511	60.31867073	0
LOS ANGELES	2021	HHDT	NG	2,453.78		99,862.01	9,569.74	13.16967682	19.93881632	0
								<b>0.702446</b>	<b>58.606169</b>	<b>0.010471</b>
LOS ANGELES	2021	LDA	GAS	3,998,082.55		154,957,028.28	18,859,046.25	0.803659046	0	2.225675966
LOS ANGELES	2021	LDA	DSL	33,364.95		1,336,170.35	157,695.71	0.312340878	0	0
LOS ANGELES	2021	LDA	ELEC	67,210.72		2,697,315.27	336,259.36	0	0	0
								<b>0.785896</b>	<b>-</b>	<b>2.168869</b>
LOS ANGELES	2021	LDT1	GAS	451,923.15		17,065,391.26	2,083,892.52	1.651623129	0	2.375813205
LOS ANGELES	2021	LDT1	DSL	297.04		7,338.12	1,055.65	1.174617515	0	0
LOS ANGELES	2021	LDT1	ELEC	2,539.28		100,849.39	12,618.76	0	0	0
								<b>1.641720</b>	<b>-</b>	<b>2.360325</b>
LOS ANGELES	2021	LDT2	GAS	1,370,275.92		52,553,142.22	6,426,189.16	1.135725011	0	2.794427772
LOS ANGELES	2021	LDT2	DSL	8,126.39		355,535.42	40,234.87	0.188597358	0	0
LOS ANGELES	2021	LDT2	ELEC	11,051.44		368,949.91	56,028.94	0	0	0
								<b>1.121540</b>	<b>-</b>	<b>2.753185</b>
LOS ANGELES	2021	LHDT1	GAS	108,025.98		3,955,472.06	1,609,426.19	0.996257304	3.745308577	1.778851548
LOS ANGELES	2021	LHDT1	DSL	61,698.85		2,667,214.83	776,093.86	0.370341957	0.909745076	0
								<b>0.744177</b>	<b>2.714517</b>	<b>1.200128</b>
LOS ANGELES	2021	LHDT2	GAS	17,947.14		636,046.40	267,385.70	0.729384583	3.752216868	1.778578423
LOS ANGELES	2021	LHDT2	DSL	24,847.53		1,035,822.88	312,550.66	0.358055801	0.909745076	0
								<b>0.499324</b>	<b>2.101815</b>	<b>0.820032</b>
LOS ANGELES	2021	MHDT	GAS	14,589.78		807,949.86	291,912.24	2.061706374	14.33103889	4.865242551
LOS ANGELES	2021	MHDT	DSL	66,201.04		4,146,736.97	650,607.29	0.439538259	2.455751047	0
								<b>0.704062</b>	<b>4.600274</b>	<b>1.506838</b>

Table 8. Operation Mobile Source Emissions Factors - EMFAC17 S02

Region	CalYr	VehClass	Fuel	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
LOS ANGELES	2021 HHDT	GAS		58.23	5,770.22	1,165.03	0.021181416	0	0.000477026
LOS ANGELES	2021 HHDT	DSL		57,397.74	6,891,921.30	574,782.19	0.014089959	0.111082149	0
LOS ANGELES	2021 HHDT	NG		2,453.78	99,862.01	9,569.74	0	0	0
							<b>0.013895</b>	<b>0.106424</b>	<b>0.000001</b>
LOS ANGELES	2021 LDA	GAS		3,998,082.55	154,957,028.28	18,859,046.25	0.002815335	0	0.000557626
LOS ANGELES	2021 LDA	DSL		33,364.95	1,336,170.35	157,695.71	0.002088199	0	0
LOS ANGELES	2021 LDA	ELEC		67,210.72	2,697,315.27	336,259.36	0	0	0
							<b>0.002761</b>	<b>-</b>	<b>0.000543</b>
LOS ANGELES	2021 LDT1	GAS		451,923.15	17,065,391.26	2,083,892.52	0.003261652	0	0.000649291
LOS ANGELES	2021 LDT1	DSL		297.04	7,338.12	1,055.65	0.004461172	0	0
LOS ANGELES	2021 LDT1	ELEC		2,539.28	100,849.39	12,618.76	0	0	0
							<b>0.003243</b>	<b>-</b>	<b>0.000645</b>
LOS ANGELES	2021 LDT2	GAS		1,370,275.92	52,553,142.22	6,426,189.16	0.003536084	0	0.000713268
LOS ANGELES	2021 LDT2	DSL		8,126.39	355,535.42	40,234.87	0.002843462	0	0
LOS ANGELES	2021 LDT2	ELEC		11,051.44	368,949.91	56,028.94	0	0	0
							<b>0.003507</b>	<b>-</b>	<b>0.000703</b>
LOS ANGELES	2021 LHDT1	GAS		108,025.98	3,955,472.06	1,609,426.19	0.00811908	0.001204653	0.000188654
LOS ANGELES	2021 LHDT1	DSL		61,698.85	2,667,214.83	776,093.86	0.004464859	0.001253522	0
							<b>0.006647</b>	<b>0.001222</b>	<b>0.000127</b>
LOS ANGELES	2021 LHDT2	GAS		17,947.14	636,046.40	267,385.70	0.009313457	0.001390834	0.000214861
LOS ANGELES	2021 LHDT2	DSL		24,847.53	1,035,822.88	312,550.66	0.004939773	0.002013708	0
							<b>0.006604</b>	<b>0.001752</b>	<b>0.000099</b>
LOS ANGELES	2021 MHDT	GAS		14,589.78	807,949.86	291,912.24	0.016861338	0.005443132	0.000393512
LOS ANGELES	2021 MHDT	DSL		66,201.04	4,146,736.97	650,607.29	0.00932165	0.008122903	0
							<b>0.010551</b>	<b>0.007639</b>	<b>0.000122</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC17 PM10

Region	CalYr	VehClass	Fuel	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined_g/ mile (Calculated)
LOS ANGELES	2021 HHDT	2021 HHDT	GAS	58.23	5,770.22	1,165.03	0.001378277	0	0.000925083	0.020000006	0.061740018	
LOS ANGELES	2021 HHDT	2021 HHDT	DSL	57,397.74	6,891,921.30	574,782.19	0.05021301	0.092947361	0	0.035590321	0.0610374	
LOS ANGELES	2021 HHDT	2021 HHDT	NG	2,453.78	99,862.01	9,569.74	0.007397686	0.052656106	0	0.03600001	0.061740018	
							<b>0.049562</b>	<b>0.091207</b>	<b>0.000002</b>	<b>0.035583</b>	<b>0.061048</b>	<b>0.146193</b>
LOS ANGELES	2021 LDA	2021 LDA	GAS	3,998,082.55	154,957,028.28	18,859,046.25	0.001860346	0	0.001996412	0.008000002	0.036750011	
LOS ANGELES	2021 LDA	2021 LDA	DSL	33,364.95	1,336,170.35	157,695.71	0.011686992	0	0	0.008000002	0.036750011	
LOS ANGELES	2021 LDA	2021 LDA	ELEC	67,210.72	2,697,315.27	336,259.36	0	0	0	0.008000002	0.036750011	
							<b>0.001911</b>	<b>-</b>	<b>0.001945</b>	<b>0.008000</b>	<b>0.036750</b>	<b>0.046661</b>
LOS ANGELES	2021 LDT1	2021 LDT1	GAS	451,923.15	17,065,391.26	2,083,892.52	0.002923519	0	0.002866041	0.008000002	0.036750011	
LOS ANGELES	2021 LDT1	2021 LDT1	DSL	297.04	7,338.12	1,055.65	0.152311885	0	0	0.008000002	0.036750011	
LOS ANGELES	2021 LDT1	2021 LDT1	ELEC	2,539.28	100,849.39	12,618.76	0	0	0	0.008000002	0.036750011	
							<b>0.002970</b>	<b>-</b>	<b>0.002847</b>	<b>0.008000</b>	<b>0.036750</b>	<b>0.047720</b>
LOS ANGELES	2021 LDT2	2021 LDT2	GAS	1,370,275.92	52,553,142.22	6,426,189.16	0.001995338	0	0.002014143	0.008000002	0.036750011	
LOS ANGELES	2021 LDT2	2021 LDT2	DSL	8,126.39	355,535.42	40,234.87	0.006742412	0	0	0.008000002	0.036750011	
LOS ANGELES	2021 LDT2	2021 LDT2	ELEC	11,051.44	368,949.91	56,028.94	0	0	0	0.008000002	0.036750011	
							<b>0.002013</b>	<b>-</b>	<b>0.001984</b>	<b>0.008000</b>	<b>0.036750</b>	<b>0.046763</b>
LOS ANGELES	2021 LHDT1	2021 LHDT1	GAS	108,025.98	3,955,472.06	1,609,426.19	0.001401611	0	0.000449255	0.008000002	0.076440022	
LOS ANGELES	2021 LHDT1	2021 LHDT1	DSL	61,698.85	2,667,214.83	776,093.86	0.014757124	0.02789731	0	0.012000003	0.076440022	
							<b>0.006780</b>	<b>0.010141</b>	<b>0.000303</b>	<b>0.009611</b>	<b>0.076440</b>	<b>0.092831</b>
LOS ANGELES	2021 LHDT2	2021 LHDT2	GAS	17,947.14	636,046.40	267,385.70	0.001268355	0	0.000379303	0.008000002	0.089180026	
LOS ANGELES	2021 LHDT2	2021 LHDT2	DSL	24,847.53	1,035,822.88	312,550.66	0.01597852	0.02845989	0	0.012000003	0.089180026	
							<b>0.010382</b>	<b>0.016524</b>	<b>0.000175</b>	<b>0.010478</b>	<b>0.089180</b>	<b>0.110040</b>
LOS ANGELES	2021 MHDT	2021 MHDT	GAS	14,589.78	807,949.86	291,912.24	0.001120034	0	0.000463462	0.012000003	0.130340037	
LOS ANGELES	2021 MHDT	2021 MHDT	DSL	66,201.04	4,146,736.97	650,607.29	0.072643812	0.0260579	0	0.012000003	0.130340037	
							<b>0.060981</b>	<b>0.021352</b>	<b>0.000144</b>	<b>0.012000</b>	<b>0.130340</b>	<b>0.203321</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC17 PM2.5

Region	CalYr	VehClass	Fuel	Population	VMT	Trips	PM2.5_RUNEX (g/mile)	PM2.5_IDLEX (g/vehicle/day)	PM2.5_STREX (g/trip)	PM2.5_PMTW (g/mile)	PM2.5_PMBW (g/mile)	PM2.5_Combined_g/mile e (calculated)
LOS ANGELES	2021 HHDT	GAS		58.23	5,770.22	1,165.03	0.001267275	0	0.000851499	0.005000001	0.026460008	
LOS ANGELES	2021 HHDT	DSL		57,397.74	6,891,921.30	574,782.19	0.048040817	0.0889265	0	0.00889758	0.026158886	
LOS ANGELES	2021 HHDT	NG		2,453.78	99,862.01	9,569.74	0.007077665	0.050378226	0	0.009000003	0.026460008	
							<b>0.047418</b>	<b>0.087261</b>	<b>0.000002</b>	<b>0.008896</b>	<b>0.026163</b>	<b>0.082477</b>
LOS ANGELES	2021 LDA	GAS		3,998,082.55	154,957,028.28	18,859,046.25	0.00171056	0	0.001835753	0.002000001	0.015750005	
LOS ANGELES	2021 LDA	DSL		33,364.95	1,336,170.35	157,695.71	0.011181417	0	0	0.002000001	0.015750005	
LOS ANGELES	2021 LDA	ELEC		67,210.72	2,697,315.27	336,259.36	0	0	0	0.002000001	0.015750005	
							<b>0.001761</b>	-	<b>0.001789</b>	<b>0.002000</b>	<b>0.015750</b>	<b>0.019511</b>
LOS ANGELES	2021 LDT1	GAS		451,923.15	17,065,391.26	2,083,892.52	0.002688295	0	0.002635485	0.002000001	0.015750005	
LOS ANGELES	2021 LDT1	DSL		297.04	7,338.12	1,055.65	0.14572294	0	0	0.002000001	0.015750005	
LOS ANGELES	2021 LDT1	ELEC		2,539.28	100,849.39	12,618.76	0	0	0	0.002000001	0.015750005	
							<b>0.002734</b>	-	<b>0.002618</b>	<b>0.002000</b>	<b>0.015750</b>	<b>0.020484</b>
LOS ANGELES	2021 LDT2	GAS		1,370,275.92	52,553,142.22	6,426,189.16	0.001834719	0	0.001852024	0.002000001	0.015750005	
LOS ANGELES	2021 LDT2	DSL		8,126.39	355,535.42	40,234.87	0.006450738	0	0	0.002000001	0.015750005	
LOS ANGELES	2021 LDT2	ELEC		11,051.44	368,949.91	56,028.94	0	0	0	0.002000001	0.015750005	
							<b>0.001853</b>	-	<b>0.001825</b>	<b>0.002000</b>	<b>0.015750</b>	<b>0.019603</b>
LOS ANGELES	2021 LHDT1	GAS		108,025.98	3,955,472.06	1,609,426.19	0.001288729	0	0.000413073	0.002000001	0.032760009	
LOS ANGELES	2021 LHDT1	DSL		61,698.85	2,667,214.83	776,093.86	0.014118738	0.026690485	0	0.003000001	0.032760009	
							<b>0.006456</b>	<b>0.009703</b>	<b>0.000279</b>	<b>0.002403</b>	<b>0.032760</b>	<b>0.041619</b>
LOS ANGELES	2021 LHDT2	GAS		17,947.14	636,046.40	267,385.70	0.001166206	0	0.000348755	0.002000001	0.038220011	
LOS ANGELES	2021 LHDT2	DSL		24,847.53	1,035,822.88	312,550.66	0.015287296	0.027228728	0	0.003000001	0.038220011	
							<b>0.009915</b>	<b>0.015810</b>	<b>0.000161</b>	<b>0.002620</b>	<b>0.038220</b>	<b>0.050755</b>
LOS ANGELES	2021 MHDT	GAS		14,589.78	807,949.86	291,912.24	0.00107983	0	0.000426136	0.003000001	0.055860016	
LOS ANGELES	2021 MHDT	DSL		66,201.04	4,146,736.97	650,607.29	0.069501273	0.024930647	0	0.003000001	0.055860016	
							<b>0.058336</b>	<b>0.020428</b>	<b>0.000132</b>	<b>0.003000</b>	<b>0.055860</b>	<b>0.117196</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC17 CO2

Region	CalYr	VehClass	Fuel	Population	VMT	Trips	CO2_RUNEX (g/mile)	CO2_IDLEX (g/vehicle/day)	CO2_STREX (g/trip)
LOS ANGELES	2021 HHDT	GAS		58.23	5,770.22	1,165.03	2140.442781	0	48.20487423
LOS ANGELES	2021 HHDT	DSL		57,397.74	6,891,921.30	574,782.19	1491.394853	11757.83013	0
LOS ANGELES	2021 HHDT	NG		2,453.78	99,862.01	9,569.74	3463.593404	4155.639627	0
							<b>1520.075286</b>	<b>11,435.032159</b>	<b>0.095916</b>
LOS ANGELES	2021 LDA	GAS		3,998,082.55	154,957,028.28	18,859,046.25	284.4976795	0	56.34970718
LOS ANGELES	2021 LDA	DSL		33,364.95	1,336,170.35	157,695.71	220.8894101	0	0
LOS ANGELES	2021 LDA	ELEC		67,210.72	2,697,315.27	336,259.36	0	0	0
							<b>279.136533</b>	<b>-</b>	<b>54.911469</b>
LOS ANGELES	2021 LDT1	GAS		451,923.15	17,065,391.26	2,083,892.52	329.5992828	0	65.61274124
LOS ANGELES	2021 LDT1	DSL		297.04	7,338.12	1,055.65	471.9021445	0	0
LOS ANGELES	2021 LDT1	ELEC		2,539.28	100,849.39	12,618.76	0	0	0
							<b>327.724563</b>	<b>-</b>	<b>65.185000</b>
LOS ANGELES	2021 LDT2	GAS		1,370,275.92	52,553,142.22	6,426,189.16	357.3314181	0	72.0777684
LOS ANGELES	2021 LDT2	DSL		8,126.39	355,535.42	40,234.87	300.7809727	0	0
LOS ANGELES	2021 LDT2	ELEC		11,051.44	368,949.91	56,028.94	0	0	0
							<b>354.479507</b>	<b>-</b>	<b>71.013984</b>
LOS ANGELES	2021 LHDT1	GAS		108,025.98	3,955,472.06	1,609,426.19	820.4562331	121.7336647	19.06406944
LOS ANGELES	2021 LHDT1	DSL		61,698.85	2,667,214.83	776,093.86	472.2921492	132.5973345	0
							<b>680.236950</b>	<b>125.682856</b>	<b>12.861855</b>
LOS ANGELES	2021 LHDT2	GAS		17,947.14	636,046.40	267,385.70	941.1515129	140.5477684	21.71230912
LOS ANGELES	2021 LHDT2	DSL		24,847.53	1,035,822.88	312,550.66	522.5284392	213.009687	0
							<b>681.789514</b>	<b>182.620753</b>	<b>10.010686</b>
LOS ANGELES	2021 MHDT	GAS		14,589.78	807,949.86	291,912.24	1703.886515	550.0440226	39.76555998
LOS ANGELES	2021 MHDT	DSL		66,201.04	4,146,736.97	650,607.29	986.6786274	859.7935356	0
							<b>1103.632136</b>	<b>803.856781</b>	<b>12.315982</b>

Table 12. Operation Mobile Source Emissions Factors - EMFAC17 CH4

Region	CalYr	CalYr	VehClass	Fuel	Population	VMT	Trips	CH4_RUNEX (g/mile)	CH4_IDLEX (g/vehicle/day)	CH4_STREX (g/trip)
LOS ANGELES	2021	2021	HHDT	GAS	58.23	5,770.22	1,165.03	0.116160187	0	0.000266534
LOS ANGELES	2021	2021	HHDT	DSL	57,397.74	6,891,921.30	574,782.19	0.005588665	0.22048124	0
LOS ANGELES	2021	2021	HHDT	NG	2,453.78	99,862.01	9,569.74	5.298640224	1.313394226	0
								<b>0.081217</b>	<b>0.265030</b>	<b>0.000001</b>
LOS ANGELES	2021	2021	LDA	GAS	3,998,082.55	154,957,028.28	18,859,046.25	0.003566569	0	0.05542367
LOS ANGELES	2021	2021	LDA	DSL	33,364.95	1,336,170.35	157,695.71	0.001129746	0	0
LOS ANGELES	2021	2021	LDA	ELEC	67,210.72	2,697,315.27	336,259.36	0	0	0
								<b>0.003486</b>	-	<b>0.054009</b>
LOS ANGELES	2021	2021	LDT1	GAS	451,923.15	17,065,391.26	2,083,892.52	0.009013338	0	0.078706474
LOS ANGELES	2021	2021	LDT1	DSL	297.04	7,338.12	1,055.65	0.009386482	0	0
LOS ANGELES	2021	2021	LDT1	ELEC	2,539.28	100,849.39	12,618.76	0	0	0
								<b>0.008961</b>	-	<b>0.078193</b>
LOS ANGELES	2021	2021	LDT2	GAS	1,370,275.92	52,553,142.22	6,426,189.16	0.005691381	0	0.074245336
LOS ANGELES	2021	2021	LDT2	DSL	8,126.39	355,535.42	40,234.87	0.001093427	0	0
LOS ANGELES	2021	2021	LDT2	ELEC	11,051.44	368,949.91	56,028.94	0	0	0
								<b>0.005621</b>	-	<b>0.073150</b>
LOS ANGELES	2021	2021	LHDT1	GAS	108,025.98	3,955,472.06	1,609,426.19	0.008623479	0.125927696	0.026075455
LOS ANGELES	2021	2021	LHDT1	DSL	61,698.85	2,667,214.83	776,093.86	0.0033318128	0.005098128	0
								<b>0.006487</b>	<b>0.082003</b>	<b>0.017592</b>
LOS ANGELES	2021	2021	LHDT2	GAS	17,947.14	636,046.40	267,385.70	0.006459453	0.12620544	0.026735165
LOS ANGELES	2021	2021	LHDT2	DSL	24,847.53	1,035,822.88	312,550.66	0.003237699	0.005098128	0
								<b>0.004463</b>	<b>0.055888</b>	<b>0.012327</b>
LOS ANGELES	2021	2021	MHDT	GAS	14,589.78	807,949.86	291,912.24	0.016519956	0.26078795	0.041462092
LOS ANGELES	2021	2021	MHDT	DSL	66,201.04	4,146,736.97	650,607.29	0.005862226	0.005440586	0
								<b>0.007600</b>	<b>0.051553</b>	<b>0.012841</b>

Table 13. Operation Mobile Source Emissions Factors - EMFAC17 N2O

Region	CalYr	VehClass	Fuel	Population	VMT	Trips	N2O_RUNEX (g/mile)	N2O_IDLEX (g/vehicle/day)	N2O_STREX (g/trip)
LOS ANGELES	2021 HHDT	GAS		58.23		5,770.22	0.158019541		0
LOS ANGELES	2021 HHDT	DSL		57,397.74	6,891,921.30		0.234426502	1.848167159	0
LOS ANGELES	2021 HHDT	NG		2,453.78	99,862.01		0.706076173	0.847154323	0
							<b>0.241094</b>	<b>1.805371</b>	<b>0.000043</b>
LOS ANGELES	2021 LDA	GAS		3,998,082.55	154,957,028.28				
LOS ANGELES	2021 LDA	DSL		33,364.95	1,336,170.35		0.00507268	0	0.026655419
LOS ANGELES	2021 LDA	ELEC		67,210.72	2,697,315.27		0.034720739	0	0
							<b>0.005236</b>	<b>-</b>	<b>0.025975</b>
LOS ANGELES	2021 LDT1	GAS		451,923.15	17,065,391.26				
LOS ANGELES	2021 LDT1	DSL		297.04	7,338.12		0.00997378	0	0.029962201
LOS ANGELES	2021 LDT1	ELEC		2,539.28	100,849.39		0.074176445	0	0
							<b>0.009943</b>	<b>-</b>	<b>0.029767</b>
LOS ANGELES	2021 LDT2	GAS		1,370,275.92	52,553,142.22				
LOS ANGELES	2021 LDT2	DSL		8,126.39	355,535.42		0.007870551	0	0.034344372
LOS ANGELES	2021 LDT2	ELEC		11,051.44	368,949.91		0.04727858	0	0
							<b>0.008079</b>	<b>-</b>	<b>0.033837</b>
LOS ANGELES	2021 LHDT1	GAS		108,025.98	3,955,472.06				
LOS ANGELES	2021 LHDT1	DSL		61,698.85	2,667,214.83		0.013979084	0.003253998	0.042299342
							0.074237749	0.020842454	0
							<b>0.038248</b>	<b>0.009648</b>	<b>0.028538</b>
LOS ANGELES	2021 LHDT2	GAS		17,947.14	636,046.40				
LOS ANGELES	2021 LHDT2	DSL		24,847.53	1,035,822.88		0.014946446	0.003167361	0.042220223
							0.082134194	0.033482156	0
							<b>0.056573</b>	<b>0.020769</b>	<b>0.019466</b>
LOS ANGELES	2021 MHDT	GAS		14,589.78	807,949.86				
LOS ANGELES	2021 MHDT	DSL		66,201.04	4,146,736.97		0.026903296	0.007481078	0.029088905
							0.15509214	0.13514757	0
							<b>0.134189</b>	<b>0.112093</b>	<b>0.009009</b>

# APPENDIX C

## *Health Risk Assessment*



**Health Risk Assessment Report  
for the Truck Terminal Specific Plan Project  
KL Fenix Corporation  
City of Carson, California**

*Prepared for:*

**City of Carson**  
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OCTOBER 2019



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B	AERMOD Input and HARP2 Output Files

# Health Risk Assessment for the Truck Terminal Specific Plan Project

## ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
AB	Assembly Bill
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
ASF	age-sensitivity factor
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
DBR	daily breathing rate
DPM	diesel particulate matter
FAH	fraction of time at home
g/s	grams per second
HARP2	Hotspots Analysis and Reporting Program Version 2
HRA	health risk assessment
KLGB	Long Beach Airport meteorological station
MM	mitigation measure
mph	miles per hour
NED	National Elevation Dataset
OEHHA	Office of Environmental Health Hazard Assessment
PM <sub>10</sub>	particulate matter with a diameter less the 10 microns
REL	reference exposure level
SCAQMD	South Coast Air Quality Management District
TAC	toxic air contaminant
EPA	U.S. Environmental Protection Agency
X/Q	ground-level unity emission concentration
µg/m <sup>3</sup>	microgram per cubic meter

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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# **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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## **SUMMARY**

The purpose of this health risk assessment (HRA) is to determine the potential cancer risk and non-cancer health impacts to existing sensitive residential receptors in proximity to the proposed Truck Terminal Specific Plan Project (project) located in the City of Carson (City), due to toxic air contaminant (TAC) emissions from construction and operation of the project.

Air dispersion modeling was conducted using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 18081 and the Hotspots Analysis and Reporting Program Version 2 (HARP2, dated 19121). The South Coast Air Quality Management District's (SCAQMD's) *Modeling Guidance for AERMOD* (SCAQMD 2019a) and the Office of Environmental Health Hazard Assessment's (OEHHA's) *Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments* (2015 Risk Assessment Guidelines Manual; OEHHA 2015) were used to prepare this HRA. For the construction residential health risk, the HRA assumes exposure from construction-generated TAC emissions would start in the 3<sup>rd</sup> trimester of pregnancy and occur 8 hours per day, 5 days per week, for 1 year. For the operational residential health risk, the HRA assumes exposure from operation-generated TAC emissions would start in the 3<sup>rd</sup> trimester of pregnancy and occur for 30 years.

This HRA finds that unmitigated project construction would result in potential chronic health risk at the maximally exposed residential receptor of 0.09, which is below the SCAQMD threshold of 1.0. Chronic health risk impacts would be less than significant. The unmitigated potential cancer risk at the maximally exposed residential receptor would be 78 in 1 million, which would exceed the SCAQMD threshold of 10 in 1 million. With implementation of mitigation, the potential cancer risk estimates at the maximally exposed residential receptor would be reduced to 8 in 1 million, which is below the SCAQMD threshold. No short term, acute relative exposure values are established and regulated for diesel particulate matter (DPM) and are therefore not addressed in this assessment.

The HRA finds that unmitigated project operation emissions would result in a potential cancer risk at the maximally exposed residential receptor of 4.29 in 1 million and a potential chronic health risk of 0.005. As with the construction HRA, no short term, acute relative exposure values are established and regulated for DPM and are therefore not addressed in this assessment. Since the maximum cancer risk would exceed 1 in a million, the cancer burden (increase in cancer cases in the population) was also estimated at 0.057 persons, which would not exceed the SCAQMD threshold of 0.5. Risk impacts from project operation would be less than significant. The project would also result in less-than-significant cancer burden impacts.

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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# **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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## **1 INTRODUCTION**

### **1.1 Purpose**

In support of the air quality assessment, the health risk assessment (HRA) modeling analysis was prepared to estimate health risk impacts to existing sensitive receptors from exposure to toxic air contaminant (TAC) emissions from construction and operation of the proposed Truck Terminal Specific Plan Project (project). The analysis in this HRA uses air dispersion modeling and Hotspots Analysis and Reporting Program Version 2 (HARP2) to evaluate potential health risks associated with the project. Results of the modeling analysis are compared with the most recent California Environmental Quality Act (CEQA) significance thresholds established by the South Coast Air Quality Management District (SCAQMD). Per CEQA Guidelines, Appendix G (14 CCR 15000 et seq.), the HRA directly addresses question (d): Would the project expose sensitive receptors to substantial pollutant concentrations?

### **1.2 Project Description**

The project site is located in the City of Carson (City), in the southwestern portion of Los Angeles County. The proposed site is an approximate 14.5 acre parcel of land previously operated as a brown landfill between November 1956 and October 1959. After the landfill operation closed in 1959, this site has remained undeveloped. The project would consist of the construction and operation of a truck terminal for transferring goods or breaking down and assembling tractor-trailer transportation (as defined by the City's Municipal Code Section 9191.698). The truck terminal on this site will mainly contribute to mobilize goods that are imported, and also for goods that are made in the United States, to be exported through the local Ports of Los Angeles and Long Beach. The primary route for the trucks transporting the imported and exported goods would be on the on and off ramp located across Figueroa Street onto the 110 Interstate Freeway, located directly on the west side of the property. A very limited number of trucks using this truck terminal would use the City's streets as part of their route.

The project would include a warehouse/office building that will face the Main Street frontage. The warehouse space will be approximately 39,500 square feet, along with an attached two story office space on one side that will be about 14,050 square feet. The total building area will be approximately 53,000 square feet with a height of approximately 42 feet. Extra care will be taken in the architectural design of the building facades in order to give the new building an aesthetic look from the Main Street side and the surround area.

The proposed project would include 102 parking spaces for the proposed warehouse/office use. It would also include 475 spaces for cargo containers, along with 6 loading docks, and designated

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

exterior and interior areas for the unloading and loading of goods between containers. Storage for stacked containers is not a part of the project.

### **1.3 Sensitive Receptors**

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air-pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (California Air Resources Board (CARB) 2005). SCAQMD identifies sensitive receptors as residences, schools, playgrounds, childcare centers, long term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993).

The closest off-site sensitive receptors to the project site include residences located approximately 95 feet east of the project site boundary.

### **1.4 Toxic Air Contaminants**

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (short term) and/or chronic (long term) non-cancer health effects. A toxic substance released into the air is considered a TAC. Examples include certain aromatic and chlorinated hydrocarbons, diesel particulate matter (DPM), certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ system and may be experienced either by acute or chronic exposure to a given TAC.

California's air toxics control program began in 1983 with the passage of the Toxic Air Contaminant Identification and Control Act, Assembly Bill (AB) 1807, better known as the Tanner Bill. The Tanner Bill established a regulatory process for the scientific and public review of individual toxic compounds. When a compound becomes listed as a TAC under the Tanner process, CARB normally establishes minimum statewide emission-control measures to be adopted by air quality management districts and air pollution control districts. By 1992, 18 of the 189 federal hazardous air pollutants had been listed by the CARB as state TACs. In April 1993,

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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CARB added 171 substances to the state program to make the state TAC list equivalent to the federal list of hazardous air pollutants. In 1998, CARB designated diesel engine exhaust particulate matter (DPM) as a TAC (CARB 1998). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long term chronic health hazard impacts. No short term, acute relative exposure values are established and regulated and are therefore not addressed in this construction-generated assessment.

The second major component of California's air toxics program, supplementing the Tanner process, was provided by the passage of AB 2588, the Air Toxics "Hot Spots" Information and Assessment Act of 1987. AB 2588 currently regulates over 600 compounds, including all of the Tanner-designated TACs.

Additionally, Proposition 65, passed by California voters in 1986, required that a list of carcinogenic and reproductive toxicants found in the environment be compiled, the discharge of these toxicants into drinking water be prohibited, and warnings of public exposure by air, land, or water be posted if a significant adverse public health risk is posed. The emission of any of listed substances by a facility would require a public warning unless health risks could be demonstrated to be less than significant. For carcinogens, Proposition 65 defines the "no significant risk level" as the level of exposure that would result in an increased cancer risk of greater than 10 in 1 million over a 70-year lifetime. The "no significant risk level" is 1/1000 of the No Observable Effect Level for reproductive toxicants.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, On-Road Heavy Duty (New) Vehicle Program, In-Use Off-Road Diesel Vehicle Regulation, and New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel powered equipment. Several Airborne Toxic Control Measures reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

### **1.5 Cancer Risk**

Cancer risk is defined as the increase in lifetime probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased probability in 1 million. The cancer risk from inhalation of a TAC is estimated by calculating the

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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inhalation (and if applicable, ingestion and dermal) dose in units of milligrams per kilogram body weight per day based on an ambient concentration in units of micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ), breathing rate, and exposure period and multiplying the dose by the inhalation cancer potency factor, expressed as  $(\text{milligrams}/\text{kilogram body weight per day})^{-1}$ . Cancer risks are typically calculated for all carcinogenic TACs and summed to calculate the overall increase in cancer risk to an individual. The calculation procedure assumes that cancer risk is proportional to concentrations at any level of exposure and that risks due to different carcinogens are additive. This approach is generally considered a conservative assumption at low doses and is consistent with the current Office of Environmental Health Hazard Assessment (OEHHA) regulatory approach. Exposure to carcinogenic TACs does not imply that the exposed individual would contract cancer; rather, the cancer risk is a probability of developing cancer if other factors (e.g., heredity, exposure to environmental or workplace risks that compromise the immune system, overall health) would result in an increased susceptibility to developing cancer.

### **1.6 Acute and Chronic Non-Cancer Health Impacts**

The non-cancer health impact of an inhaled TAC is measured by the hazard quotient, which is the ratio of the ambient concentration of a TAC in units of  $\mu\text{g}/\text{m}^3$  divided by the reference exposure level (REL), also in units of  $\mu\text{g}/\text{m}^3$ . The REL is the concentration at or below which no adverse health effects are anticipated. The REL is typically based on health effects on a particular target organ system, such as the respiratory system, liver, or central nervous system. Hazard quotients of individual TACs are then summed for each target organ system to obtain a hazard index.

## **2 GUIDANCE AND THRESHOLDS**

### **2.1 Office of Environmental Health Hazard Assessment's Guidance**

OEHHA's most recent guidance is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015), which was adopted in 2015 to replace the 2003 HRA Guidance Manual. The Children's Environmental Health Protection Act of 1999 (Senate Bill 25), which requires explicit consideration of infants and children in assessing risks from air toxics, requires revisions of the methods for both non-cancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA Guidance Manual. In response to Senate Bill 25, OEHHA released three technical support documents addressing RELs (OEHHA 2008), cancer potency (OEHHA 2009), and exposure assessment and stochastic analysis (OEHHA 2012) and adopted the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). The technical support document for RELs and continuing work to re-evaluate TACs to ensure adequate protection for infants and children has led to revisions of RELs for approximately 10 chemicals and chemical families. The basic methodology for evaluating acute and chronic health effects using the RELs otherwise remained the same as in the previous guidance manual. Moreover, RELs are designed to protect the most sensitive individuals in the population, including infants and children, by selecting appropriate toxicological data and including margins of safety. Accordingly, the evaluation methods are assumed to protect children and other sensitive subpopulations (groups of more highly susceptible individuals) from adverse health effects in the event of exposure (OEHHA 2008).

The cancer risk methodology described in the exposure assessment and stochastic analysis technical support document and the 2015 Risk Assessment Guidelines Manual accounts for the higher sensitivity of infants and children by applying age-specific daily breathing rates (DBRs) and age-sensitivity factors (ASFs). According to the technical support document, "accounting for effects of early-in life exposure requires accounting for both the increased potency of early in life exposure to carcinogens and the greater exposure on a per [kilogram] body weight that occurs early in life due to behavioral and physiological differences between infants and children, and adults" (OEHHA 2012). In the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years and an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood (OEHHA 2015). The ASF for adults is 1. In addition to the ASFs, children have higher DBRs per unit of body weight than adults. The OEHHA guidance manual considers the age-specific breathing rates in the cancer risk calculations.

In addition, OEHHA and CARB evaluated information from activity patterns databases to estimate the fraction of time at home (FAH) during the day. From the third trimester to age <2 years, 85% of time is spent at home. From age 2 through <16 years, 72% of time is spent at home. From age 16 years and greater, 73% of time is spent at home. However, for facilities with

## Health Risk Assessment for the Truck Terminal Specific Plan Project

any school within the 1 in a million or greater isopleth, the OEHHA recommends using an FAH of 100% for children under 16 years old (OEHHA 2015). Cancer risk parameters, such as ASFs, DBRs, exposure period, FAH, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in HARP2.

### 2.2 South Coast Air Quality Management District Guidance

SCAQMD's *Modeling Guidance for American Meteorological Society/ Environmental Protection Agency Regulatory Model (AERMOD)* (SCAQMD 2019a) and *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (SCAQMD 2003) provides guidance to perform dispersion modeling for use in HRAs within the South Coast Air Basin. SCAQMD's current thresholds of significance for TAC emissions are presented in Table 1.

**Table 1**  
**SCAQMD CEQA TAC Emissions Thresholds**

Carcinogens	Noncarcinogens
	<i>Acute or Chronic</i>
Maximally exposed individual risk equals or exceeds 10 in 1 million	Hazard Index equals or exceeds 1.0 for the maximally exposed individual

Source: SCAQMD 2015.

Notes: CEQA = California Environmental Quality Act; SCAQMD = South Coast Air Quality Management District; TAC = toxic air contaminant

In addition to cancer and non-cancer risk thresholds, if the cancer risk at the maximally exposed individual risk exceeds 1 in a million, the SCAQMD also requires the evaluation of cancer burden (increase in cancer cases in the population), to be compared to the threshold of 0.5 (SCAQMD 2017).

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## **3 MODELING METHODOLOGY**

### **3.1 Emission Calculation**

#### **Construction Emissions Calculations**

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the applicant and CalEEMod default values. All assumptions pertaining to construction emissions, including phasing, equipment, and vehicle trips, are based on the Air Quality and Greenhouse Gas Emissions Technical Report prepared for the project. Complete detailed construction assumptions are included in Appendix A and are summarized below.

For purposes of estimating project emissions, and based on information provided by the project applicant, construction would begin in January 2020 for a duration of 12 months. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Site Preparation: 11 days
- Grading: 22 days
- Trenching: 32 days
- Building Construction: 153 days
- Paving: 44 days
- Application of Architectural Coatings: 23 days

Construction-worker estimates and vendor truck trips by construction phase were based on applicant provided information. Additionally, haul truck trips during the grading phase were based on project applicant-provided information. Grading is not estimated to result in any soil export per information provided by the applicant. CalEEMod default trip length values were used for the distances for worker and vendor trips. Fugitive dust generated during truck loading is included in CalEEMod as an on-site source of fugitive dust emissions and is calculated based on estimated throughput of loaded and unloaded material.

The construction equipment mix and vehicle trips used for estimating the project-generated construction emissions are shown in Table 2. For the analysis, it was generally assumed that heavy construction equipment would be operating at the site 5 days per week (22 days per month) during project construction.



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**Table 2**  
**Construction Scenario Assumptions**

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Site Preparation	8	0	0	Rubber tired dozers	2	8
Grading	20	0	0	Graders	2	8
				Rubber tired dozers	2	8
				Rollers	2	8
Trenching	16	2	0	Excavator	2	8
				Bore/Drill Rig	2	8
Building Construction	30	2	0	Cranes	1	7
				Forklifts	3	8
				Generators	1	8
				Tractors/loaders/backhoes	3	7
				Welders	1	8
Paving	20	6	0	Cement and Mortar Mixers	2	8
Architectural Coating	6	2	0	Aerial Lifts	2	8

Notes: See Appendix A for details.

For the HRA, we are concerned with DPM emitted from exhaust from on-site construction equipment and diesel vehicles. Notably, to include only on-site emissions from vendor trucks, they were conservatively assumed to operate for 0.19-miles on site (1,000 feet).

### Operational Emissions Calculations

Operational year 2021 was assumed consistent with completion of project construction. Emissions from the operation of the project include project truck travel and truck idling. For risk assessment purposes, PM<sub>10</sub> in diesel exhaust is considered DPM, originating mainly from truck traveling on site and off site, and truck idling emissions onsite.

The fuel delivery truck traffic were modeled for one-way trip distances to 1,000 feet from the project site boundary to estimate emissions at proximate receptors. Delivery truck travel and idling emission rates were obtained from CARB's EMFAC 2014.

CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (CARB Handbook) encourages consideration of the health impacts of distribution centers that accommodates more than 100 trucks per day on sensitive receptors sited within 1,000 feet from the source in the land use decision-making process (CARB 2005).



## Health Risk Assessment for the Truck Terminal Specific Plan Project

Emission factors representing the vehicle mix and emissions for 2021 were used to estimate emissions associated with full buildout of the project were developed using EMFAC2017. Trucks traveling to and from the project site was assumed to travel at 30 miles per hour (mph); while onsite, internal truck circulation was assumed to travel at 5 mph. All trucks were assumed to idle a maximum of 5 minutes each at the entrance gate and the exit gate; for a total of 10 minutes at the gates. For a small portion of trucks accessing the warehouse onsite, an additional 5 minutes of idling time was assumed to occur at the loading docks. To estimate the potential additional idling, it was assumed that one turn would occur every three hours at each of the six loading docks, resulting in a total of 24 trucks idling at the warehouse per day assuming a 12-hour work day. Project truck idling would be limited to 5 minutes in accordance with CARB's adopted Airborne Toxic Control Measure.

### Unmitigated Construction Emissions

Table 3 presents the estimated unmitigated annual construction exhaust PM<sub>10</sub> emissions, a surrogate for DPM, generated during construction of the project.

**Table 3**  
**Unmitigated Project Annual On-Site Construction Emissions – Exhaust Only**

Year	PM <sub>10</sub>	
	<i>Tons per year</i>	<i>Pounds per year</i>
2020	0.119	238

Source: See Appendix A for complete results.

Notes: PM<sub>10</sub> = coarse particulate matter

As shown in Section 4, HRA Results, the results of the HRA using the default construction emission factors in CalEEMod result in a potentially significant impact. As such, the following mitigation is included to reduce DPM emissions from construction equipment.

### Mitigation Measures

**MM-AQ-1:** To reduce the potential for health risks as a result of construction of the project, the applicant shall:

- A. Prior to the start of construction activities, the project applicant, or its designee, shall ensure that all 75 horsepower or greater diesel-powered equipment are powered with CARB certified Tier 4 Interim engines, except where the project applicant establishes to the satisfaction of the City that Tier 4 Interim equipment is not available.

## Health Risk Assessment for the Truck Terminal Specific Plan Project

- B. All other diesel-powered construction equipment will be classified as Tier 3 or higher, at a minimum, except where the project applicant establishes to the satisfaction of the City that Tier 3 equipment is not available.

In the case where the applicant is unable to secure a piece of equipment that meets the Tier 4 Interim requirement, the applicant may upgrade another piece of equipment to compensate (from Tier 4 Interim to Tier 4 Final). Engine Tier requirements in accordance with this measure shall be incorporated on all construction plans.

### Mitigated Construction Emissions

The project emissions incorporating the tiered equipment as outlined in mitigation measure MM-AQ-1 are shown in Table 4.

**Table 4**  
**Mitigated Project Annual On-Site Construction Emissions – Exhaust Only**

Year	PM <sub>10</sub>	
	<i>Tons per year</i>	<i>Pounds per year</i>
2020		

Source: See Appendix A for complete results.

Notes: PM<sub>10</sub> = coarse particulate matter

### Unmitigated Operational Emissions

Table 5 presents the estimated unmitigated annual and hourly operational emissions from truck travel and idling.

**Table 5**  
**Unmitigated Project On-Site Operational Emissions**

Source ID	Source Description	Modeled Length (miles)	Average Daily Trips	Average Daily VMT	Annual VMT	PM <sub>10</sub>	
						<i>Pounds per year</i>	<i>Pounds per hour</i>
SLINE1	405 West Freeway Inbound	0.94	13	12	4,460	0.3578	0.00008
SLINE 2	405 West Freeway Outbound	0.76	13	10	3,606	0.2893	0.00006
SLINE3	405 East Freeway Inbound	1.02	19	19	7,074	0.5675	0.00013
SLINE4	405 East Freeway Outbound	0.68	19	13	4,716	0.3783	0.00086
SLINE5	110 Freeway Inbound North	0.43	144	62	22,601	1.8132	0.00041
SLINE6	110 Freeway Outbound North	0.50	144	72	26,280	2.1084	0.00048
SLINE7	110 Freeway Inbound South	0.78	144	112	40,997	3.2891	0.00075
SLINE8	110 Freeway Outbound North	0.77	144	111	40,471	3.2469	0.00074
SLINE9	Onsite Truck Circulation	0.42	321	135	49,209	7.6808	0.00175

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**Table 5**  
**Unmitigated Project On-Site Operational Emissions**

Source ID	Source Description	Modeled Length (miles)	Average Daily Trips	Average Daily VMT	Annual VMT	PM <sub>10</sub>	
						<i>Pounds per year</i>	<i>Pounds per hour</i>
VOL1	Onsite Truck Idling Loading <sup>a</sup>	N/A	24	N/A	N/A	0.2112	0.00005
VOL2	Onsite Truck Idling Gate 1 <sup>a</sup>	N/A	321	N/A	N/A	2.854	0.00065
VOL3	Onsite Truck Idling Gate 2 <sup>a</sup>	N/A	321	N/A	N/A	2.854	0.00065

Source: See Appendix A for complete results.

Notes: PM<sub>10</sub> = coarse particulate matter

<sup>a</sup> At each idling location, the trucks are assumed to idle a maximum of 5 minutes each.

### 3.2 Dispersion Model

Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentration of selected pollutants at specific downwind ground-level points, such as residential receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models have the capability to take all of these factors into consideration when calculating downwind ground-level pollutant concentrations.

A dispersion modeling analysis of DPM emitted from project construction diesel vehicles and off-road equipment was conducted on the areas surrounding the project site for the HRA. Furthermore, the TAC emissions from on-site and off-site truck travel and idling were conducted on the project site for the operational HRA. The dispersion modeling was performed using AERMOD Version 18081, which is the model United States Environmental Protection Agency (EPA) approved and SCAQMD recommends for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain. Principal parameters of AERMOD for the project modeling included the following:

- **Dispersion Model:** The air dispersion model used was AERMOD Version 18081, with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.6.5. Under the construction scenario, a unit emission rate (1 gram per second (g/s)) was

## Health Risk Assessment for the Truck Terminal Specific Plan Project

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normalized over the grid of adjacent volume sources for the AERMOD run to obtain the “X/Q” values. Under the operational scenario, AERMOD was run with each volume source emitting unit emissions (1 g/s) to obtain the “X/Q” values; for the line volume sources, a unit emission rate was normalized over the line of adjacent volume sources for the AERMOD run to obtain the “X/Q” values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength, and is used as a way to simplify the representation of emissions from many sources. The maximum concentrations were determined for the 1-hour and Period averaging periods.

- **Meteorological Data:** The latest 5-year meteorological data for the Long Beach Airport (KLGB) station (Station ID 23129) from SCAQMD were downloaded (SCAQMD 2019b), and then input to AERMOD. For cancer and chronic non-cancer risk assessments, the average cancer and chronic non-cancer risk of all years modeled was used. A wind rose is provided for this station on Figure 1.
- **Urban and Rural Options:** Typically, urban areas have more surface roughness and structures and low-albedo surfaces that absorb more sunlight, and thus, more heat, relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected and Los Angeles County population for year 2010 (9,818,605 persons) was input into AERMOD (SCAQMD 2019a).
- **Terrain Characteristics:** Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset (NED) dataset with resolution of 1/3 arc-second was used (SCAQMD 2019a).
- **Sensitive Receptors:** This HRA evaluates the risk to existing residential receptors located in proximity to the project. A uniform 2-kilometer by 2-kilometer Cartesian grid with 100-meter spacing was centered over the project site and converted into discrete receptors to represent proximate sensitive receptors. An additional fine grid with 25 meter spacing was placed over nearby residential areas and converted into discrete receptors to represent proximate sensitive receptors.
- **Source Release Construction Scenario:** Air dispersion modeling of DPM emissions was conducted assuming the equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A). The construction equipment DPM emissions were modeled as a grid of adjacent volume sources (78 volume sources total) across the project site to represent project construction with a release height of 5 meters, initial vertical dimension of 1.4 meters, and initial lateral dimension of 5.81 meters.
- **Source Release Operational Scenario:** Offsite truck travel was modeled as a line of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 3.16 meters, and a plume width

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of 3.12 meters (EPA 2015). Onsite truck travel was also modeled as a line of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 3.16 meters, and a plume width of 1.56 meters (EPA 2015). Onsite truck idling was modeled as a volume source with an initial lateral dimension of 4.19 meters and an initial vertical dimension of 0.93 meters.

### **3.3 Health Risk Assessment Methodology**

#### **Construction Health Risk Assessment**

In March 2015, the OEHHA approved the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). SCAQMD requires that all HRAs prepared for CEQA documents follow SCAQMD policies in conjunction with the 2015 Risk Assessment Guidelines Manual. Cancer and non-cancer health risk calculations were performed for the project using ground-level unity emission concentration (X/Q) input from AERMOD. This modeling established the emissions dispersion field to the existing sensitive receptors from atmospheric influence of the project construction DPM emissions. Plot files generated in AERMOD were then imported into HARP2, with ground level concentrations determined by multiplication of emission rates and X/Q values for the total volume sources of emissions. HARP2 then assessed resulting cancer and non-cancer risk at the existing receptors from exposure to TAC emissions using the OEHHA Derived calculation method.

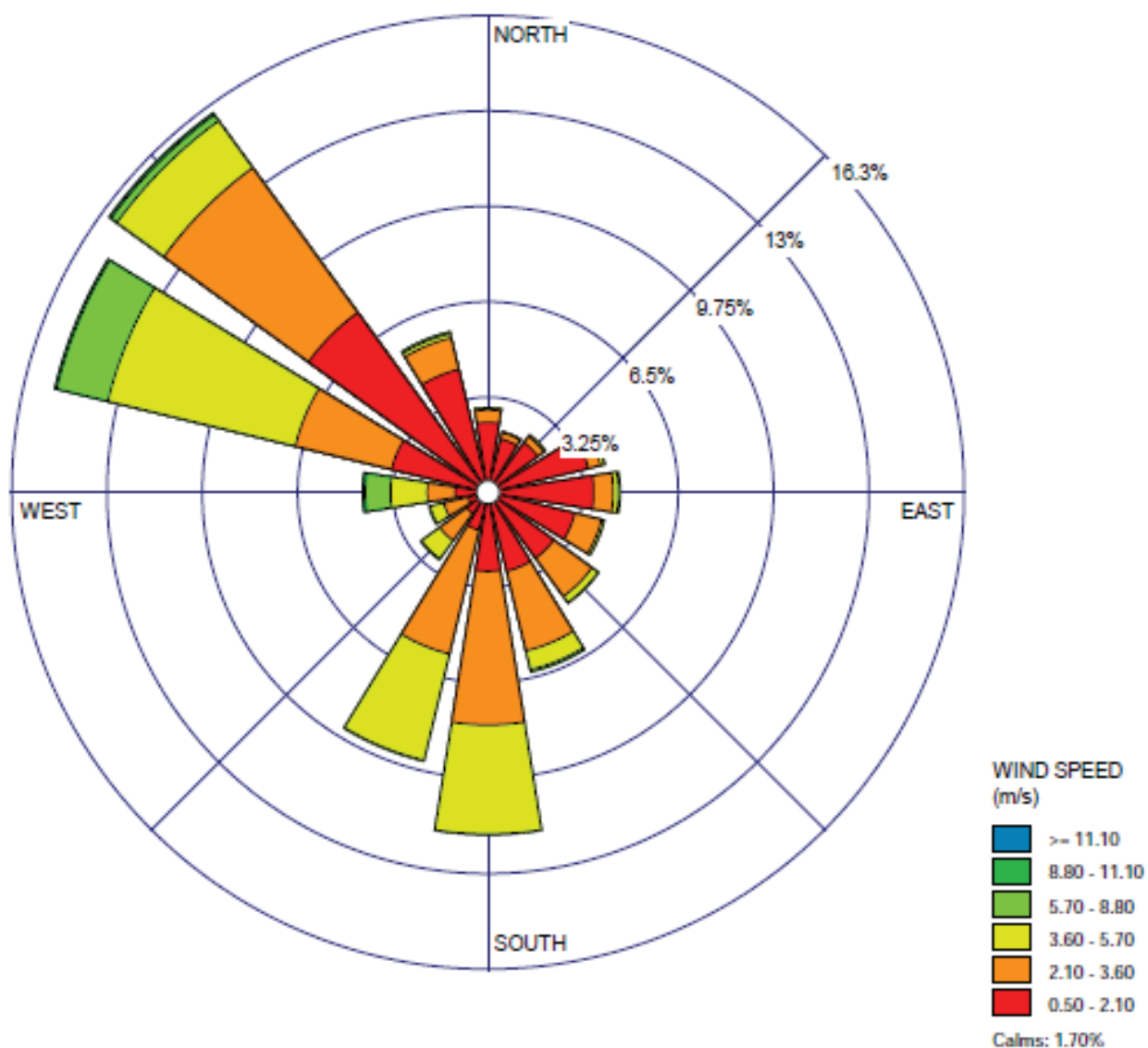
For the purposes of this assessment, given the less-than-lifetime exposure period, and the higher breathing rates and sensitivity of children to construction-generated TACs, the cancer risk calculation assumes that the exposure would affect children early in their lives. For the residential construction health risk, the HRA assumes exposure would start in the 3<sup>rd</sup> trimester of pregnancy and occur 8 hours per day, 5 days per week, for 1 year.

#### **Operational Health Risk Assessment**

For the operational health risk, the HRA assumes exposure would start in the 3<sup>rd</sup> trimester through 30 years for all receptor locations. The SCAQMD has also established noncarcinogenic risk parameters for use in HRAs since some TACs increase non-cancer health risk due to long-term (chronic) exposures and some TACs increase non-cancer health risk due to short-term (acute) exposures; however, no short term, acute relative exposure values are established and regulated for DPM and are therefore not addressed in this assessment. Noncarcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or REL, which is a concentration at or below which health effects are not likely to occur. The chronic hazard index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system.

## Health Risk Assessment for the Truck Terminal Specific Plan Project

Figure 1. Wind Rose of Meteorological Data – KLGB Station



Source: SCAQMD 2017.

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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## Health Risk Assessment for the Truck Terminal Specific Plan Project

### 4 HEALTH RISK RESULTS

The cancer risk calculations were performed by multiplying the AERMOD-predicted DPM concentrations in  $\mu\text{g}/\text{m}^3$  per unit g/s due to DPM emissions from trucks and construction equipment by the appropriate risk values. The potential exposure pathway for DPM includes inhalation only. The potential exposure through other pathways (e.g., ingestion) requires substance and site-specific data, and the specific parameters for DPM are not known for these pathways (CARB 1998).

Table 6 shows the maximum cancer and chronic health risks at the maximally exposed residential receptor from project construction. AERMOD and HARP2 outputs are in Appendix B.

**Table 6**  
**Summary of Maximum Construction Cancer and Chronic Health Risks - Unmitigated**

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
<i>Maximally Exposed Individual Resident</i>					
Construction HRA	Cancer Risk	Per Million	78.23	10	Potentially Significant
	Chronic Hazard Index	Index Value	0.088	1.0	Less than Significant

Source: See Appendix B for complete results.

Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

Maximally Exposed Individual Resident was determined to be Receptor ID 1203.

As shown in Table 6, the HRA results from the unmitigated scenario show cancer risks exceeding the 10 in 1 million threshold and thus a potentially significant impact at the maximally exposed individual residential receptors. These potentially significant health risk impacts triggered the requirement of MM-AQ-1 in order to reduce project construction-generated DPM emissions to the extent feasible. The HRA results after incorporation of MM-AQ-1 are presented in Table 7.

**Table 7**  
**Summary of Maximum Construction Cancer and Chronic Health Risks - Mitigated**

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
<i>Maximally Exposed Individual Resident</i>					
Construction HRA	Cancer Risk	Per Million	7.95	10	Less than Significant
	Chronic Hazard Index	Index Value	0.009	1.0	Less than Significant

Source: See Appendix B for complete results.

Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

Maximally Exposed Individual Resident was determined to be Receptor ID 1203.



## Health Risk Assessment for the Truck Terminal Specific Plan Project

As shown in Table 7, with the implementation of mitigation MM-AQ-1 requiring Tier 4 Interim equipment, the estimated cancer risk during project construction would be reduced below the SCAQMD threshold of 10 in 1 million.

The operational cancer risk calculations were performed by multiplying the AERMOD-predicted TAC concentrations in  $\mu\text{g}/\text{m}^3$  per unit g/s due to TAC emissions from trucks travel and idling by the appropriate risk values. The mandatory potential exposure through pathways (e.g., ingestion) are selected for the operation-generated TAC emissions. Table 8 summarizes the HRA results based on the HRA methodology described above and contained in Appendix B.

**Table 8**  
**Summary of Maximum Operational Cancer and Chronic Health Risks - Unmitigated**

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
<i>Maximally Exposed Individual Resident</i>					
Operational HRA	Cancer Risk	Per Million	4.29	10	Less than Significant
	Chronic Hazard Index	Index Value	0.001	1.0	Less than Significant

Source: See Appendix B for complete results.

Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

Maximally Exposed Individual Resident was determined to be Receptor ID 1007.

As shown in Table 8, the project's potential cancer health risk of 4.29 in 1 million would not exceed the SCAQMD threshold of 10 in 1 million and the project's potential chronic hazard index of 0.001 would not exceed the SCAQMD threshold of 1.0.

# Health Risk Assessment for the Truck Terminal Specific Plan Project

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## 5 CANCER BURDEN

As determined in Section 4 above, since the cancer risk from project operation at the maximally exposed individual resident exceeds 1 in a million, cancer burden, for which a SCAQMD significance threshold of 0.5, is evaluated. Unlike cancer risk, which is the lifetime probability (chances) of an individual developing cancer due to exposure to a carcinogenic compound, cancer burden estimates the number of theoretical cancer cases in a defined population resulting from a lifetime exposure to carcinogenic TACs. As described in the OEHHA guidance manual:

The cancer burden can be calculated by multiplying the cancer risk at a census block centroid by the number of people who live in the census block, and adding up the estimated number of potential cancer cases across the zone of impact. The result of this calculation is a single number that is intended to estimate of the number of potential cancer cases within the population that was exposed to the emissions for a lifetime (70 years) (OEHHA 2015).

The SCAQMD has established a procedural screening approach for estimating cancer burden (SCAQMD 2017), which includes the following steps:

- Recalculate cancer risk from all TACs using a 70-year exposure duration;
- Estimate the distance at which the at which maximum individual cancer risk from a 70-year exposure duration falls below 1 in a million;
- Define a zone of impact in the shape of a circle, with the radius equal to the distance between the TAC source and the point at which the risk falls below 1 in a million;
- Estimate the residential population within this zone of impact based on census data or a worse-case estimate;
- Calculate the screening level cancer burden by multiplying the total residential population in the zone of impact by the maximum individual cancer risk.

The maximum estimated 70-year cancer risk for project operation was estimated at 5.2 in a million with HARP2 using the Population-Wide option in the model, which is specified for use in cancer burden estimates. The total population in the zone of impact area was estimated to be approximately 10,995 persons, based on the average densities of the Census Tracts that would be within the zone of impact (Census Tract 5435.03 and 5438.01) (U.S. Census Bureau 2019). Multiplying the maximum estimated 70-year cancer risk by the project population gives a cancer burden of 0.057. Accordingly, the cancer burden indicates that less than one person could contract cancer assuming a 70-year exposure under the modeled scenario of TAC emissions and provided that other factors related to an individual's susceptibility to contracting cancer would occur. An estimated cancer burden of 0.057 would be less than the SCAQMD cancer burden threshold of 0.5.

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

Thus, the impact with respect to potential cancer burden due to project operations would be less than significant.

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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### **6 CONCLUSIONS**

The results determined in this analysis reflect reasonable estimates of source emissions and exhaust characteristics, available meteorological data near the project site, and the use of currently approved air quality models. Given the limits of available tools for such an analysis, the actual impacts may vary from the estimates in this assessment. However, the combined use of the AERMOD dispersion model and the health impact calculations required by OEHHA and SCAQMD tend to overpredict impacts, such that they produce conservative (i.e., health-protective) results. For this reason, the estimated cancer risks and non-cancer hazard indices reported in this analysis are likely upper-bound estimates for potential exposure to project-related emissions. In addition, the estimated cancer risks and non-cancer hazard indices represent the maximum exposed individual resident do not represent the risk over a broad area. The actual risks of cancer or non-cancer effects from the project are likely to be lower than presented herein.

Based on this analysis, project construction would result in potential chronic health risk at the maximally exposed residential receptor below the SCAQMD threshold without the need for mitigation. However, potential cancer health risk impacts from project construction at the proximate existing residential receptors would exceed the SCAQMD threshold. With implementation of MM-AQ-1, potential cancer risk at the maximally exposed residential receptor would be reduced to a less-than-significant level. Potential health risk at existing residential receptors from project operation would result in potential cancer health risk and chronic health risk that would not exceed the applicable SCAQMD thresholds. This would be a less-than-significant impact. The project would also result in less-than-significant cancer burden impacts.

## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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## Health Risk Assessment for the Truck Terminal Specific Plan Project

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### 7 REFERENCES

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- 14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.
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## **Health Risk Assessment for the Truck Terminal Specific Plan Project**

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# APPENDIX A

## *Emission Calculations*



## KL Fenix - Construction Health Risk Assessment

### Annual Exhaust PM10 from Onsite Emissions (Equipment and 1,000 feet for Trucks)

#### UNMITIGATED SCENARIO

**Total** 0.1191 tons during overall construction

238.20 lbs during overall construction

238.20	lbs/yr
--------	--------

0.104	lbs/hr
-------	--------

8 hours/day

1 year

285 total days

2280 total hours

Emissions from CalEEMod 2016.3.2:

	Exhaust PM10 Tons per Year	Start Date	End Date	Months
2020	0.1191	1/1/2022	12/31/2020	12
<b>Total</b>	<b>0.1191</b>		<b>Total Months</b>	<b>12</b>
			<b>Total Years</b>	<b>1</b>

#### MITIGATED SCENARIO - Tier 4 Interim

**Total** 0.0121 tons during overall construction

24.20 lbs during overall construction

24.20	lbs/yr
-------	--------

0.011	lbs/hr
-------	--------

8 hours/day

1 year

285 total days

2280 total hours

Emissions from CalEEMod 2016.3.2:

	Exhaust PM10 Tons per Year	Start Date	End Date	Months
2020	0.1191	1/1/2022	12/31/2020	12
<b>Total</b>	<b>0.1191</b>		<b>Total Months</b>	<b>12</b>
			<b>Total Years</b>	<b>1</b>

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**KL Fenix Construction Health Risk Assessment**  
**South Coast AQMD Air District, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.05	1000sqft	0.32	14,050.00	0
Unrefrigerated Warehouse-No Rail	39.50	1000sqft	0.91	39,500.00	0
Parking Lot	12.89	Acre	12.89	561,520.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	628.13	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Project Characteristics - See Section 1.0 Project Characteristics. Operational year 2021 consistent with traffic analysis. CO2 Intensity factor adjusted for 2017 SCE Power Content Label assuming 29% renewables (628.13lb/MWh).

Land Use - Land Use - See 1.1 Land Usage.

Construction Phase - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Default values. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Trips and VMT - Per applicant provided information. Assumes 1,000 ft (0.19 miles) trip length for vendor truck trips.

Grading - Default values

Architectural Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Area Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Energy Use - Default Values.

Water And Wastewater - Default Values

Solid Waste - Default Values

Construction Off-road Equipment Mitigation -

Water Mitigation - Per applicant provided information, low-flow indoor water use equipment will be utilized for the project.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	26,775.00	26,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	80,325.00	79,500.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	5.00

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

tblArchitecturalCoating	EF_Parking	100.00	5.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	5
tblAreaCoating	Area_EF_Nonresidential_Interior	100	5
tblAreaCoating	Area_EF_Parking	100	5
tblAreaCoating	Area_Nonresidential_Exterior	26775	26500
tblAreaCoating	Area_Nonresidential_Interior	80325	79500
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	300.00	153.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	23.00
tblLandUse	LandUseSquareFeet	561,488.40	561,520.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	628.13
tblSolidWaste	SolidWasteGenerationRate	13.07	13.02
tblSolidWaste	SolidWasteGenerationRate	37.13	36.66
tblTripsAndVMT	VendorTripLength	6.90	0.19

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	101.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	257.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	51.00	6.00
tblWater	IndoorWaterUseRate	2,497,159.16	2,488,272.47
tblWater	IndoorWaterUseRate	9,134,375.00	9,018,750.00
tblWater	OutdoorWaterUseRate	1,530,516.90	1,525,070.22

## 2.0 Emissions Summary

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**2.1 Overall Construction****Unmitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr										MT/yr						
2020	0.2699	2.2697	1.7369	3.1100e-003	0.2105	0.1191	0.3296	0.1105	0.1114	0.2219	0.0000	268.9143	268.9143	0.0720	0.0000	270.7137
Maximum	0.2699	2.2697	1.7369	3.1100e-003	0.2105	0.1191	0.3296	0.1105	0.1114	0.2219	0.0000	268.9143	268.9143	0.0720	0.0000	270.7137

**Mitigated Construction**

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr										MT/yr						
2020	0.2699	2.2697	1.7369	3.1100e-003	0.0948	0.1191	0.2139	0.0498	0.1114	0.1611	0.0000	268.9140	268.9140	0.0720	0.0000	270.7134
Maximum	0.2699	2.2697	1.7369	3.1100e-003	0.0948	0.1191	0.2139	0.0498	0.1114	0.1611	0.0000	268.9140	268.9140	0.0720	0.0000	270.7134

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	0.00	0.00	0.00	0.00	54.97	0.00	35.11	54.98	0.00	27.39	0.00	0.00	0.00	0.00	0.00	0.00

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.8194	0.8194
2	4-1-2020	6-30-2020	0.6980	0.6980
3	7-1-2020	9-30-2020	0.7057	0.7057
		Highest	0.8194	0.8194

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Energy	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	161.5246	161.5246	7.2000e-003	1.6300e-003	162.1896
Mobile	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Waste						0.0000	0.0000		0.0000	0.0000	10.0846	0.0000	10.0846	0.5960	0.0000	24.9842
Water						0.0000	0.0000		0.0000	0.0000	3.6507	47.5171	51.1678	0.3772	9.3100e-003	63.3701
<b>Total</b>	<b>0.2923</b>	<b>0.3486</b>	<b>0.8455</b>	<b>3.1300e-003</b>	<b>0.2522</b>	<b>3.1600e-003</b>	<b>0.2554</b>	<b>0.0676</b>	<b>3.0000e-003</b>	<b>0.0706</b>	<b>13.7352</b>	<b>493.3526</b>	<b>507.0878</b>	<b>0.9942</b>	<b>0.0109</b>	<b>535.2013</b>

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**2.2 Overall Operational****Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Energy	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	161.5246	161.5246	7.2000e-003	1.6300e-003	162.1896
Mobile	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Waste						0.0000	0.0000		0.0000	0.0000	10.0846	0.0000	10.0846	0.5960	0.0000	24.9842
Water						0.0000	0.0000		0.0000	0.0000	2.9205	38.9792	41.8997	0.3018	7.4600e-003	51.6655
<b>Total</b>	<b>0.2923</b>	<b>0.3486</b>	<b>0.8455</b>	<b>3.1300e-003</b>	<b>0.2522</b>	<b>3.1600e-003</b>	<b>0.2554</b>	<b>0.0676</b>	<b>3.0000e-003</b>	<b>0.0706</b>	<b>13.0051</b>	<b>484.8146</b>	<b>497.8197</b>	<b>0.9188</b>	<b>9.0900e-003</b>	<b>523.4967</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5.32</b>	<b>1.73</b>	<b>1.83</b>	<b>7.58</b>	<b>16.91</b>	<b>2.19</b>

**3.0 Construction Detail****Construction Phase**



## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/15/2020	5	11	
2	Grading	Grading	1/16/2020	2/15/2020	5	22	
3	Trenching	Trenching	2/16/2020	3/31/2020	5	32	
4	Building Construction	Building Construction	4/1/2020	10/31/2020	5	153	
5	Paving	Paving	11/1/2020	12/31/2020	5	44	
6	Architectural Coating	Architectural Coating	12/1/2020	12/31/2020	5	23	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 12.89**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 79,500; Non-Residential Outdoor: 26,500; Striped Parking Area: 33,691 (Architectural Coating – sqft)**

**OffRoad Equipment**

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Bore/Drill Rigs	2	8.00	221	0.50
Trenching	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	8.00	0.00	0.00	0.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	20.00	0.00	0.00	0.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	16.00	2.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	30.00	2.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	20.00	6.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	6.00	2.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0662	0.0000	0.0662	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0119	0.1247	0.0455	9.0000e-005		6.1000e-003	6.1000e-003		5.6200e-003	5.6200e-003	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228
Total	0.0119	0.1247	0.0455	9.0000e-005	0.0662	6.1000e-003	0.0723	0.0364	5.6200e-003	0.0420	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**3.2 Site Preparation - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	1.0000e-005	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.0300e-003	9.0300e-003	0.0000	0.0000	9.0600e-003
<b>Total</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0300e-003</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0600e-003</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0298	0.0000	0.0298	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0119	0.1247	0.0455	9.0000e-005		6.1000e-003	6.1000e-003		5.6200e-003	5.6200e-003	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228
<b>Total</b>	<b>0.0119</b>	<b>0.1247</b>	<b>0.0455</b>	<b>9.0000e-005</b>	<b>0.0298</b>	<b>6.1000e-003</b>	<b>0.0359</b>	<b>0.0164</b>	<b>5.6200e-003</b>	<b>0.0220</b>	<b>0.0000</b>	<b>8.2561</b>	<b>8.2561</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>8.3228</b>

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**3.2 Site Preparation - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	1.0000e-005	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.0300e-003	9.0300e-003	0.0000	0.0000	9.0600e-003
<b>Total</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0300e-003</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0600e-003</b>

**3.3 Grading - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1442	0.0000	0.1442	0.0741	0.0000	0.0741	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.4343	0.1725	3.9000e-004		0.0196	0.0196		0.0180	0.0180	0.0000	34.4103	34.4103	0.0111	0.0000	34.6885
<b>Total</b>	<b>0.0388</b>	<b>0.4343</b>	<b>0.1725</b>	<b>3.9000e-004</b>	<b>0.1442</b>	<b>0.0196</b>	<b>0.1637</b>	<b>0.0741</b>	<b>0.0180</b>	<b>0.0921</b>	<b>0.0000</b>	<b>34.4103</b>	<b>34.4103</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6885</b>

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**3.3 Grading - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	7.0000e-005	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.2000e-004</b>	<b>7.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0649	0.0000	0.0649	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.4343	0.1725	3.9000e-004		0.0196	0.0196		0.0180	0.0180	0.0000	34.4102	34.4102	0.0111	0.0000	34.6884
<b>Total</b>	<b>0.0388</b>	<b>0.4343</b>	<b>0.1725</b>	<b>3.9000e-004</b>	<b>0.0649</b>	<b>0.0196</b>	<b>0.0845</b>	<b>0.0333</b>	<b>0.0180</b>	<b>0.0514</b>	<b>0.0000</b>	<b>34.4102</b>	<b>34.4102</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6884</b>

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**3.3 Grading - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	7.0000e-005	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
Total	2.2000e-004	7.0000e-005	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453

**3.4 Trenching - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003	6.4300e-003	6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2610
Total	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003	6.4300e-003	6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2610

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**3.4 Trenching - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1924	0.1924	3.0000e-005	0.0000	0.1932
Worker	2.5000e-004	8.0000e-005	1.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0526	0.0526	1.0000e-005	0.0000	0.0527
<b>Total</b>	<b>3.0000e-004</b>	<b>2.0700e-003</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2450</b>	<b>0.2450</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.2459</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003		6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2609
<b>Total</b>	<b>0.0167</b>	<b>0.1899</b>	<b>0.1712</b>	<b>4.7000e-004</b>		<b>6.9900e-003</b>	<b>6.9900e-003</b>		<b>6.4300e-003</b>	<b>6.4300e-003</b>	<b>0.0000</b>	<b>40.9300</b>	<b>40.9300</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.2609</b>



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**3.4 Trenching - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1924	0.1924	3.0000e-005	0.0000	0.1932
Worker	2.5000e-004	8.0000e-005	1.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0526	0.0526	1.0000e-005	0.0000	0.0527
Total	3.0000e-004	2.0700e-003	1.6500e-003	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.2450	0.2450	4.0000e-005	0.0000	0.2459

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1816	177.1816	0.0432	0.0000	178.2623
Total	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1816	177.1816	0.0432	0.0000	178.2623

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**3.5 Building Construction - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.5100e-003	2.3200e-003	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.9200	0.9200	1.5000e-004	0.0000	0.9238
Worker	2.2600e-003	7.1000e-004	0.0104	1.0000e-005	2.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4712	0.4712	5.0000e-005	0.0000	0.4724
Total	2.4900e-003	0.0102	0.0127	2.0000e-005	5.0000e-005	2.0000e-005	8.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	1.3911	1.3911	2.0000e-004	0.0000	1.3962

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1814	177.1814	0.0432	0.0000	178.2621
Total	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1814	177.1814	0.0432	0.0000	178.2621

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**3.5 Building Construction - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.5100e-003	2.3200e-003	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.9200	0.9200	1.5000e-004	0.0000	0.9238
Worker	2.2600e-003	7.1000e-004	0.0104	1.0000e-005	2.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4712	0.4712	5.0000e-005	0.0000	0.4724
Total	2.4900e-003	0.0102	0.0127	2.0000e-005	5.0000e-005	2.0000e-005	8.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	1.3911	1.3911	2.0000e-004	0.0000	1.3962

**3.6 Paving - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	2.5900e-003	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217
Paving	0.0169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217

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**3.6 Paving - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	8.2000e-003	2.0000e-003	1.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7937	0.7937	1.3000e-004	0.0000	0.7970
Worker	4.3000e-004	1.4000e-004	1.9900e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0903	0.0903	1.0000e-005	0.0000	0.0906
Total	6.3000e-004	8.3400e-003	3.9900e-003	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.8840	0.8840	1.4000e-004	0.0000	0.8876

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	2.5900e-003	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217
Paving	0.0169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217

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**3.6 Paving - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	8.2000e-003	2.0000e-003	1.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7937	0.7937	1.3000e-004	0.0000	0.7970
Worker	4.3000e-004	1.4000e-004	1.9900e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0903	0.0903	1.0000e-005	0.0000	0.0906
<b>Total</b>	<b>6.3000e-004</b>	<b>8.3400e-003</b>	<b>3.9900e-003</b>	<b>1.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.8840</b>	<b>0.8840</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.8876</b>

**3.7 Architectural Coating - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205
<b>Total</b>	<b>0.0171</b>	<b>0.0148</b>	<b>0.0252</b>	<b>4.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.3931</b>	<b>3.3931</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.4205</b>

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**3.7 Architectural Coating - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4300e-003	3.5000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1383	0.1383	2.0000e-005	0.0000	0.1389
Worker	7.0000e-005	2.0000e-005	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0142
<b>Total</b>	<b>1.1000e-004</b>	<b>1.4500e-003</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1525</b>	<b>0.1525</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1531</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205
<b>Total</b>	<b>0.0171</b>	<b>0.0148</b>	<b>0.0252</b>	<b>4.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.3931</b>	<b>3.3931</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.4205</b>

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**3.7 Architectural Coating - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4300e-003	3.5000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1383	0.1383	2.0000e-005	0.0000	0.1389
Worker	7.0000e-005	2.0000e-005	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0142
Total	1.1000e-004	1.4500e-003	6.6000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1525	0.1525	2.0000e-005	0.0000	0.1531

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Unmitigated	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate				Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT	Annual VMT
General Office Building	154.97	34.56	14.75	379,292	379,292	379,292	379,292	379,292
Parking Lot	0.00	0.00	0.00					
Unrefrigerated Warehouse-No Rail	66.36	66.36	66.36	284,400	284,400	284,400	284,400	284,400
Total	221.33	100.92	81.11	663,692	663,692	663,692	663,692	663,692

## 4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by	Pass-by
General Office Building	16.60	8.40	6.90	6.90	33.00	48.00	19.00	19.00	77	19	4	4
Parking Lot	16.60	8.40	6.90	6.90	0.00	0.00	0.00	0.00	0	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	6.90	59.00	0.00	41.00	41.00	92	5	3	3

## 4.4 Fleet Mix



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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Unrefrigerated Warehouse-No Rail	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	151.8858	151.8858	7.0100e-003	1.4500e-003	152.4934
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	151.8858	151.8858	7.0100e-003	1.4500e-003	152.4934
Natural Gas Mitigated	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.8000e-004	1.8000e-004	9.6961
Natural Gas Unmitigated	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.8000e-004	1.8000e-004	9.6961

## Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
General Office Building	146261	7.9000e-004	7.1700e-003	6.0200e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.8050	7.8050	1.5000e-004	1.4000e-004	7.8514	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Unrefrigerated Warehouse-No Rail	34365	1.9000e-004	1.6800e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8339	1.8339	4.0000e-005	3.0000e-005	1.8447	
Total		9.8000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.9000e-004	1.7000e-004	9.6961	

	Natural/Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
General Office Building	146261	7.9000e-004	7.1700e-003	6.0200e-003	4.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	0.0000	7.8050	7.8050	1.5000e-004	1.4000e-004	7.8514	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Unrefrigerated Warehouse-No Rail	34365	1.9000e-004	1.6800e-003	1.4200e-003	1.0000e-005	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	0.0000	1.8339	1.8339	4.0000e-005	3.0000e-005	1.8447	
Total		9.8000e-004	8.8500e-003	7.4400e-003	5.0000e-005	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.9000e-004	1.7000e-004	9.6961	

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	182509	51.9997	2.4000e-003	5.0000e-004	52.2077
Parking Lot	196532	55.9949	2.5900e-003	5.3000e-004	56.2189
Unrefrigerated Warehouse-No Rail	154050	43.8912	2.0300e-003	4.2000e-004	44.0668
<b>Total</b>		<b>151.8858</b>	<b>7.0200e-003</b>	<b>1.4500e-003</b>	<b>152.4934</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	182509	51.9997	2.4000e-003	5.0000e-004	52.2077
Parking Lot	196532	55.9949	2.5900e-003	5.3000e-004	56.2189
Unrefrigerated Warehouse-No Rail	154050	43.8912	2.0300e-003	4.2000e-004	44.0668
<b>Total</b>		<b>151.8858</b>	<b>7.0200e-003</b>	<b>1.4500e-003</b>	<b>152.4934</b>

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**6.0 Area Detail****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Unmitigated	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003

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**6.2 Area by SubCategory****Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
<b>Total</b>	<b>0.2315</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6500e-003</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7600e-003</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
<b>Total</b>	<b>0.2315</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6500e-003</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7600e-003</b>

**7.0 Water Detail**

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.8997	0.3018	7.4600e-003	51.6655
Unmitigated	51.1678	0.3772	9.3100e-003	63.3701

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.48827 / 1.52507	14.8481	0.0817	2.0500e-003	17.5018
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.01875 / 0	36.3197	0.2954	7.2600e-003	45.8683
<b>Total</b>		<b>51.1678</b>	<b>0.3772</b>	<b>9.3100e-003</b>	<b>63.3701</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.99062 / 1.52507	12.8440	0.0654	1.6500e-003	14.9708
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	7.215 / 0	29.0558	0.2363	5.8100e-003	36.6946
<b>Total</b>		<b>41.8997</b>	<b>0.3018</b>	<b>7.4600e-003</b>	<b>51.6655</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.0846	0.5960	0.0000	24.9842
Unmitigated	10.0846	0.5960	0.0000	24.9842



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**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	13.02	2.6429	0.1562	0.0000	6.5478
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	36.66	7.4417	0.4398	0.0000	18.4364
<b>Total</b>		<b>10.0846</b>	<b>0.5960</b>	<b>0.0000</b>	<b>24.9842</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	13.02	2.6429	0.1562	0.0000	6.5478
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	36.66	7.4417	0.4398	0.0000	18.4364
<b>Total</b>		<b>10.0846</b>	<b>0.5960</b>	<b>0.0000</b>	<b>24.9842</b>

KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**KL Fenix Construction Health Risk Assessment**  
**South Coast AQMD Air District, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.05	1000sqft	0.32	14,050.00	0
Unrefrigerated Warehouse-No Rail	39.50	1000sqft	0.91	39,500.00	0
Parking Lot	12.89	Acre	12.89	561,520.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	628.13	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Project Characteristics - See Section 1.0 Project Characteristics. Operational year 2021 consistent with traffic analysis. CO2 Intensity factor adjusted for 2017 SCE Power Content Label assuming 29% renewables (628.13lb/MWh).

Land Use - Land Use - See 1.1 Land Usage.

Construction Phase - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Default values. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Off-road Equipment - Per applicant provided information. See Section 3.0 Construction Detail.

Trips and VMT - Per applicant provided information. Assumes 1,000 ft (0.19 miles) trip length for vendor truck trips.

Grading - Default values

Architectural Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Area Coating - Applicant proposes "no-voc" coatings, therefore 5 g/L VOC conservatively estimated.

Energy Use - Default Values.

Water And Wastewater - Default Values

Solid Waste - Default Values

Construction Off-road Equipment Mitigation - Tier 4 Interim Mitigation

Water Mitigation - Per applicant provided information, low-flow indoor water use equipment will be utilized for the project.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	26,775.00	26,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	80,325.00	79,500.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	5.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	5.00

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tblArchitecturalCoating	EF_Parking	100.00	5.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	5
tblAreaCoating	Area_EF_Nonresidential_Interior	100	5
tblAreaCoating	Area_EF_Parking	100	5
tblAreaCoating	Area_Nonresidential_Exterior	26775	26500
tblAreaCoating	Area_Nonresidential_Interior	80325	79500
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	11.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	300.00	153.00

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	23.00
tblLandUse	LandUseSquareFeet	561,488.40	561,520.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	628.13
tblSolidWaste	SolidWasteGenerationRate	13.07	13.02
tblSolidWaste	SolidWasteGenerationRate	37.13	36.66
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	101.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	257.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	20.00
tblTripsAndVMT	WorkerTripNumber	51.00	6.00
tblWater	IndoorWaterUseRate	2,497,159.16	2,488,272.47
tblWater	IndoorWaterUseRate	9,134,375.00	9,018,750.00
tblWater	OutdoorWaterUseRate	1,530,516.90	1,525,070.22

**2.0 Emissions Summary**

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2699	2.2697	1.7369	3.1100e-003	0.2105	0.1191	0.3296	0.1105	0.1114	0.2219	0.0000	268.9143	268.9143	0.0720	0.0000	270.7137
Maximum	0.2699	2.2697	1.7369	3.1100e-003	0.2105	0.1191	0.3296	0.1105	0.1114	0.2219	0.0000	268.9143	268.9143	0.0720	0.0000	270.7137

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1193	1.1722	2.0050	3.1100e-003	0.0948	0.0121	0.1069	0.0498	0.0121	0.0618	0.0000	268.9140	268.9140	0.0720	0.0000	270.7134
Maximum	0.1193	1.1722	2.0050	3.1100e-003	0.0948	0.0121	0.1069	0.0498	0.0121	0.0618	0.0000	268.9140	268.9140	0.0720	0.0000	270.7134

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	55.80	48.36	-15.43	0.00	54.97	89.84	67.57	54.98	89.16	72.14	0.00	0.00	0.00	0.00	0.00	0.00



## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.8194	0.3099
2	4-1-2020	6-30-2020	0.6980	0.3843
3	7-1-2020	9-30-2020	0.7057	0.3886
		Highest	0.8194	0.3886

**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Energy	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	161.5246	161.5246	7.2000e-003	1.6300e-003	162.1896
Mobile	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Waste						0.0000	0.0000		0.0000	0.0000	10.0846	0.0000	10.0846	0.5960	0.0000	24.9842
Water						0.0000	0.0000		0.0000	0.0000	3.6507	47.5171	51.1678	0.3772	9.3100e-003	63.3701
<b>Total</b>	<b>0.2923</b>	<b>0.3486</b>	<b>0.8455</b>	<b>3.1300e-003</b>	<b>0.2522</b>	<b>3.1600e-003</b>	<b>0.2554</b>	<b>0.0676</b>	<b>3.0000e-003</b>	<b>0.0706</b>	<b>13.7352</b>	<b>493.3526</b>	<b>507.0878</b>	<b>0.9942</b>	<b>0.0109</b>	<b>535.2013</b>

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**2.2 Overall Operational****Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Energy	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	161.5246	161.5246	7.2000e-003	1.6300e-003	162.1896
Mobile	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Waste						0.0000	0.0000		0.0000	0.0000	10.0846	0.0000	10.0846	0.5960	0.0000	24.9842
Water						0.0000	0.0000		0.0000	0.0000	2.9205	38.9792	41.8997	0.3018	7.4600e-003	51.6655
<b>Total</b>	<b>0.2923</b>	<b>0.3486</b>	<b>0.8455</b>	<b>3.1300e-003</b>	<b>0.2522</b>	<b>3.1600e-003</b>	<b>0.2554</b>	<b>0.0676</b>	<b>3.0000e-003</b>	<b>0.0706</b>	<b>13.0051</b>	<b>484.8146</b>	<b>497.8197</b>	<b>0.9188</b>	<b>9.0900e-003</b>	<b>523.4967</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5.32</b>	<b>1.73</b>	<b>1.83</b>	<b>7.58</b>	<b>16.91</b>	<b>2.19</b>

**3.0 Construction Detail****Construction Phase**

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/15/2020	5	11	
2	Grading	Grading	1/16/2020	2/15/2020	5	22	
3	Trenching	Trenching	2/16/2020	3/31/2020	5	32	
4	Building Construction	Building Construction	4/1/2020	10/31/2020	5	153	
5	Paving	Paving	11/1/2020	12/31/2020	5	44	
6	Architectural Coating	Architectural Coating	12/1/2020	12/31/2020	5	23	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 12.89**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 79,500; Non-Residential Outdoor: 26,500; Striped Parking Area: 33,691 (Architectural Coating – sqft)**

**OffRoad Equipment**

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Trenching	Bore/Drill Rigs	2	8.00	221	0.50
Trenching	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	8.00	0.00	0.00	0.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	20.00	0.00	0.00	0.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	4	16.00	2.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	30.00	2.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	20.00	6.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	6.00	2.00	0.00	0.00	0.19	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment  
Water Exposed Area

**3.2 Site Preparation - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Fugitive Dust					0.0662	0.0000	0.0662	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0119	0.1247	0.0455	9.0000e-005		6.1000e-003	6.1000e-003		5.6200e-003	5.6200e-003	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228
Total	0.0119	0.1247	0.0455	9.0000e-005	0.0662	6.1000e-003	0.0723	0.0364	5.6200e-003	0.0420	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**3.2 Site Preparation - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	1.0000e-005	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.0300e-003	9.0300e-003	0.0000	0.0000	9.0600e-003
<b>Total</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0300e-003</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0600e-003</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0298	0.0000	0.0298	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0247	0.0498	9.0000e-005		1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	0.0000	8.2561	8.2561	2.6700e-003	0.0000	8.3228
<b>Total</b>	<b>1.5300e-003</b>	<b>0.0247</b>	<b>0.0498</b>	<b>9.0000e-005</b>	<b>0.0298</b>	<b>1.5000e-004</b>	<b>0.0300</b>	<b>0.0164</b>	<b>1.5000e-004</b>	<b>0.0165</b>	<b>0.0000</b>	<b>8.2561</b>	<b>8.2561</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>8.3228</b>

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**3.2 Site Preparation - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	1.0000e-005	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	9.0300e-003	9.0300e-003	0.0000	0.0000	9.0600e-003
<b>Total</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0300e-003</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0600e-003</b>

**3.3 Grading - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.1442	0.0000	0.1442	0.0741	0.0000	0.0741	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0388	0.4343	0.1725	3.9000e-004		0.0196	0.0196		0.0180	0.0180	0.0000	34.4103	34.4103	0.0111	0.0000	34.6885
<b>Total</b>	<b>0.0388</b>	<b>0.4343</b>	<b>0.1725</b>	<b>3.9000e-004</b>	<b>0.1442</b>	<b>0.0196</b>	<b>0.1637</b>	<b>0.0741</b>	<b>0.0180</b>	<b>0.0921</b>	<b>0.0000</b>	<b>34.4103</b>	<b>34.4103</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6885</b>

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**3.3 Grading - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	7.0000e-005	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.2000e-004</b>	<b>7.0000e-005</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0649	0.0000	0.0649	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7400e-003	0.1131	0.2207	3.9000e-004		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	34.4102	34.4102	0.0111	0.0000	34.6884
<b>Total</b>	<b>6.7400e-003</b>	<b>0.1131</b>	<b>0.2207</b>	<b>3.9000e-004</b>	<b>0.0649</b>	<b>6.4000e-004</b>	<b>0.0655</b>	<b>0.0333</b>	<b>6.4000e-004</b>	<b>0.0340</b>	<b>0.0000</b>	<b>34.4102</b>	<b>34.4102</b>	<b>0.0111</b>	<b>0.0000</b>	<b>34.6884</b>



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**3.3 Grading - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	7.0000e-005	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
Total	2.2000e-004	7.0000e-005	9.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453

**3.4 Trenching - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003		6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2610
Total	0.0167	0.1899	0.1712	4.7000e-004		6.9900e-003	6.9900e-003		6.4300e-003	6.4300e-003	0.0000	40.9300	40.9300	0.0132	0.0000	41.2610

## KL Fenix Construction Health Risk Assessment - South Coast AQMD Air District, Annual

**3.4 Trenching - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1924	0.1924	3.0000e-005	0.0000	0.1932
Worker	2.5000e-004	8.0000e-005	1.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0526	0.0526	1.0000e-005	0.0000	0.0527
Total	3.0000e-004	2.0700e-003	1.6500e-003	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.2450	0.2450	4.0000e-005	0.0000	0.2459

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.1533	0.2875	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	40.9300	40.9300	0.0132	0.0000	41.2609
Total	7.0200e-003	0.1533	0.2875	4.7000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	40.9300	40.9300	0.0132	0.0000	41.2609

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**3.4 Trenching - 2020****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.9900e-003	4.9000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1924	0.1924	3.0000e-005	0.0000	0.1932
Worker	2.5000e-004	8.0000e-005	1.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0526	0.0526	1.0000e-005	0.0000	0.0527
Total	3.0000e-004	2.0700e-003	1.6500e-003	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.2450	0.2450	4.0000e-005	0.0000	0.2459

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1816	177.1816	0.0432	0.0000	178.2623
Total	0.1622	1.4677	1.2889	2.0600e-003		0.0855	0.0855		0.0804	0.0804	0.0000	177.1816	177.1816	0.0432	0.0000	178.2623

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**3.5 Building Construction - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.5100e-003	2.3200e-003	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.9200	0.9200	1.5000e-004	0.0000	0.9238
Worker	2.2600e-003	7.1000e-004	0.0104	1.0000e-005	2.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4712	0.4712	5.0000e-005	0.0000	0.4724
Total	2.4900e-003	0.0102	0.0127	2.0000e-005	5.0000e-005	2.0000e-005	8.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	1.3911	1.3911	2.0000e-004	0.0000	1.3962

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	0.0636	0.8279	1.3880	2.0600e-003		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	177.1814	177.1814	0.0432	0.0000	178.2621
Total	0.0636	0.8279	1.3880	2.0600e-003		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	177.1814	177.1814	0.0432	0.0000	178.2621

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**3.5 Building Construction - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-004	9.5100e-003	2.3200e-003	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.9200	0.9200	1.5000e-004	0.0000	0.9238
Worker	2.2600e-003	7.1000e-004	0.0104	1.0000e-005	2.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4712	0.4712	5.0000e-005	0.0000	0.4724
Total	2.4900e-003	0.0102	0.0127	2.0000e-005	5.0000e-005	2.0000e-005	8.0000e-005	2.0000e-005	2.0000e-005	4.0000e-005	0.0000	1.3911	1.3911	2.0000e-004	0.0000	1.3962

**3.6 Paving - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	2.5900e-003	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217
Paving	0.0169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217

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**3.6 Paving - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	8.2000e-003	2.0000e-003	1.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7937	0.7937	1.3000e-004	0.0000	0.7970
Worker	4.3000e-004	1.4000e-004	1.9900e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0903	0.0903	1.0000e-005	0.0000	0.0906
Total	6.3000e-004	8.3400e-003	3.9900e-003	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.8840	0.8840	1.4000e-004	0.0000	0.8876

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Off-Road	2.5900e-003	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217
Paving	0.0169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.0162	0.0136	3.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	2.0164	2.0164	2.1000e-004	0.0000	2.0217

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**3.6 Paving - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	8.2000e-003	2.0000e-003	1.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.7937	0.7937	1.3000e-004	0.0000	0.7970
Worker	4.3000e-004	1.4000e-004	1.9900e-003	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0903	0.0903	1.0000e-005	0.0000	0.0906
Total	6.3000e-004	8.3400e-003	3.9900e-003	1.0000e-005	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.8840	0.8840	1.4000e-004	0.0000	0.8876

**3.7 Architectural Coating - 2020****Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205
Total	0.0171	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004		3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205

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**3.7 Architectural Coating - 2020****Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4300e-003	3.5000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1383	0.1383	2.0000e-005	0.0000	0.1389
Worker	7.0000e-005	2.0000e-005	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0142
<b>Total</b>	<b>1.1000e-004</b>	<b>1.4500e-003</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1525</b>	<b>0.1525</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1531</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Archit. Coating	0.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	0.0148	0.0252	4.0000e-005		3.3000e-004	3.3000e-004	3.0000e-004	3.0000e-004	3.0000e-004	0.0000	3.3931	3.3931	1.1000e-003	0.0000	3.4205
<b>Total</b>	<b>0.0171</b>	<b>0.0148</b>	<b>0.0252</b>	<b>4.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.3931</b>	<b>3.3931</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.4205</b>



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**3.7 Architectural Coating - 2020****Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.4300e-003	3.5000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1383	0.1383	2.0000e-005	0.0000	0.1389
Worker	7.0000e-005	2.0000e-005	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0142	0.0142	0.0000	0.0000	0.0142
Total	1.1000e-004	1.4500e-003	6.6000e-004	0.0000	0.0000	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.1525	0.1525	2.0000e-005	0.0000	0.1531

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558
Unmitigated	0.0598	0.3397	0.8372	3.0800e-003	0.2522	2.4900e-003	0.2547	0.0676	2.3300e-003	0.0699	0.0000	284.3092	284.3092	0.0139	0.0000	284.6558

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate				Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT	Annual VMT
General Office Building	154.97	34.56	14.75	379,292	379,292	379,292	379,292	379,292
Parking Lot	0.00	0.00	0.00					
Unrefrigerated Warehouse-No Rail	66.36	66.36	66.36	284,400	284,400	284,400	284,400	284,400
Total	221.33	100.92	81.11	663,692	663,692	663,692	663,692	663,692

## 4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by	Pass-by
General Office Building	16.60	8.40	6.90	6.90	33.00	48.00	19.00	19.00	77	19	4	4
Parking Lot	16.60	8.40	6.90	6.90	0.00	0.00	0.00	0.00	0	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	6.90	59.00	0.00	41.00	41.00	92	5	3	3

## 4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Unrefrigerated Warehouse-No Rail	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	151.8858	151.8858	7.0100e-003	1.4500e-003	152.4934
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	151.8858	151.8858	7.0100e-003	1.4500e-003	152.4934
Natural Gas Mitigated	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.8000e-004	1.8000e-004	9.6961
Natural Gas Unmitigated	9.7000e-004	8.8500e-003	7.4400e-003	5.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.8000e-004	1.8000e-004	9.6961

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**5.2 Energy by Land Use - NaturalGas****Unmitigated**

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
tons/yr																	
General Office Building	146261	7.9000e-004	7.1700e-003	6.0200e-003	4.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	0.0000	7.8050	7.8050	1.5000e-004	1.4000e-004	7.8514
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	34365	1.9000e-004	1.6800e-003	1.4200e-003	1.0000e-005	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	0.0000	1.8339	1.8339	4.0000e-005	3.0000e-005	1.8447
Total		9.8000e-004	8.8500e-003	7.4400e-003	5.0000e-005	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.9000e-004	1.7000e-004	9.6961

**Mitigated**

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr																
tons/yr																	
General Office Building	146261	7.9000e-004	7.1700e-003	6.0200e-003	4.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	5.4000e-004	0.0000	7.8050	7.8050	1.5000e-004	1.4000e-004	7.8514
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	34365	1.9000e-004	1.6800e-003	1.4200e-003	1.0000e-005	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	1.3000e-004	0.0000	1.8339	1.8339	4.0000e-005	3.0000e-005	1.8447
Total		9.8000e-004	8.8500e-003	7.4400e-003	5.0000e-005	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	6.7000e-004	0.0000	9.6389	9.6389	1.9000e-004	1.7000e-004	9.6961

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	182509	51.9997	2.4000e-003	5.0000e-004	52.2077
Parking Lot	196532	55.9949	2.5900e-003	5.3000e-004	56.2189
Unrefrigerated Warehouse-No Rail	154050	43.8912	2.0300e-003	4.2000e-004	44.0668
<b>Total</b>		<b>151.8858</b>	<b>7.0200e-003</b>	<b>1.4500e-003</b>	<b>152.4934</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	182509	51.9997	2.4000e-003	5.0000e-004	52.2077
Parking Lot	196532	55.9949	2.5900e-003	5.3000e-004	56.2189
Unrefrigerated Warehouse-No Rail	154050	43.8912	2.0300e-003	4.2000e-004	44.0668
<b>Total</b>		<b>151.8858</b>	<b>7.0200e-003</b>	<b>1.4500e-003</b>	<b>152.4934</b>

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**6.0 Area Detail****6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Unmitigated	0.2315	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003

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**6.2 Area by SubCategory****Unmitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
<b>Total</b>	<b>0.2315</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6500e-003</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7600e-003</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Architectural Coating	1.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
<b>Total</b>	<b>0.2315</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6500e-003</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7600e-003</b>

**7.0 Water Detail**

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.8997	0.3018	7.4600e-003	51.6655
Unmitigated	51.1678	0.3772	9.3100e-003	63.3701



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**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.48827 / 1.52507	14.8481	0.0817	2.0500e-003	17.5018
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.01875 / 0	36.3197	0.2954	7.2600e-003	45.8683
<b>Total</b>		<b>51.1678</b>	<b>0.3772</b>	<b>9.3100e-003</b>	<b>63.3701</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.99062 / 1.52507	12.8440	0.0654	1.6500e-003	14.9708
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	7.215 / 0	29.0558	0.2363	5.8100e-003	36.6946
<b>Total</b>		<b>41.8997</b>	<b>0.3018</b>	<b>7.4600e-003</b>	<b>51.6655</b>

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.0846	0.5960	0.0000	24.9842
Unmitigated	10.0846	0.5960	0.0000	24.9842

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**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	tons	MT/yr			
General Office Building	13.02	2.6429	0.1562	0.0000	6.5478
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	36.66	7.4417	0.4398	0.0000	18.4364
<b>Total</b>		<b>10.0846</b>	<b>0.5960</b>	<b>0.0000</b>	<b>24.9842</b>

**Mitigated**

	Waste Disposed	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	tons	MT/yr			
General Office Building	13.02	2.6429	0.1562	0.0000	6.5478
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	36.66	7.4417	0.4398	0.0000	18.4364
<b>Total</b>		<b>10.0846</b>	<b>0.5960</b>	<b>0.0000</b>	<b>24.9842</b>

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9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation Mobile Source PM10 Emissions Summary - EMFAC2017

								Emission Factors	Emissions - Daily (Pounds/day)	Emissions - Hourly (Pounds/Hour)	Emissions - Annual (Pounds/yr)
Vehicle Type	EMFAC Class	Average Daily Trip Length (miles)	Avg. Daily Trips (trips/day)	Avg. Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)	Idling Minutes per Day (min/day)	PM10	PM10	PM10	PM10
SLINE1 405W_Inbound								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.94	13	12	4,745	4,460	-	0.036391	0.000980	0.000082	0.3578
SLINE2 405W_Outbound								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.76	13	10	4,745	3,606	-	0.036391	0.000793	0.000066	0.2893
SLINE3 405E_Inbound								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	1.02	19	19	6,935	7,074	-	0.036391	0.001555	0.000130	0.5675
SLINE4 405E_Outbound								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.68	19	13	6,935	4,716	-	0.036391	0.001037	0.000086	0.3783
SLINE5 110_InboundN								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.43	144	62	52,560	22,601	-	0.036391	0.004968	0.000414	1.8132
SLINE6 110_OutboundN								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.50	144	72	52,560	26,280	-	0.036391	0.005776	0.000481	2.1084
SLINE7 110_Inbounds								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.78	144	112	52,560	40,997	-	0.036391	0.009011	0.000751	3.2891
SLINE8 110_Outbounds								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.77	144	111	52,560	40,471	-	0.036391	0.008896	0.000741	3.2469
SLINE9 Onsite_Truck_Circulation								Running Exhaust (grams/mile)			
	LHDT1, LHDT2, Trucks MHDT, HHDT	0.42	321	135	117,165	49,209	-	0.070799	0.021043	0.001754	7.6808
VOL1 Onsite_Truck_Idling>Loading *6 docks, 1 turn every 3 hours (12 hour)								Idling (grams/minute/vehicle)			
	LHDT1, LHDT2, Trucks MHDT, HHDT		24	-	8,760	-	5	0.002188	0.001	0.000048	0.2112
VOL2 Onsite_Truck_Idling_Gate1								Idling (grams/minute/vehicle)			
	LHDT1, LHDT2, Trucks MHDT, HHDT		321	-	117,165	-	5	0.002188	0.008	0.000645	2.8254
VOL3 Onsite_Truck_Idling_Gate2								Idling (grams/minute/vehicle)			
	LHDT1, LHDT2, Trucks MHDT, HHDT		321	-	117,165	-	5	0.002188	0.008	0.000645	2.8254

# APPENDIX B

## *AERMOD Input and HARP2 Output Files*

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
\*\*\* 10/09/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:14:34

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

\*\*\* MODEL SETUP OPTIONS

SUMMARY \*\*\*

-----  
-----

\*\*Model Is Setup For Calculation of Average CONcEntration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 78 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_10

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

\*\*This Run Includes: 78 Source(s); 1 Source Group(s); and  
1355 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 78 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with 0 line(s)

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

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

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

Model Outputs 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) = 10.00 ;

Decay Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC

; Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 4.1 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: KL\_Fenix\_Con.err

\*\*File for Summary of Results: KL\_Fenix\_Con.sum



8.23, 10.80, 1.54, 3.09, 5.14,

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

METEOROLOGICAL DATA \*\*\*

Surface file: P:\300.Environmental\10029 Carson On-Call\Phase 10 -  
 KL Fenix Truck Terminal SP\ Met Version: 16216  
 Profile file: P:\300.Environmental\10029 Carson On-Call\Phase 10 -  
 KL Fenix Truck Terminal SP\  
 Surface format: FREE  
 Profile format: FREE  
 Surface station no.: 23129 Upper air station no.:  
 3190

Name: UNKNOWN Name:  
 UNKNOWN  
 Year: 2012 Year:  
 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
12	01	01	1	01	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	
2.68	1.00			1.13	322.	7.9	282.0	2.0					
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	
2.68	1.00			0.00	0.	7.9	281.4	2.0					
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	
2.68	1.00			0.74	79.	7.9	280.9	2.0					
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	
2.68	1.00			0.86	137.	7.9	280.9	2.0					
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	
2.68	1.00			0.00	0.	7.9	280.4	2.0					
12	01	01	1	06	-5.2	0.093	-9.000	-9.000	-999.	68.	14.0	0.10	
2.68	1.00			1.11	92.	7.9	279.9	2.0					
12	01	01	1	07	-2.3	0.066	-9.000	-9.000	-999.	41.	11.5	0.10	
2.68	1.00			0.69	67.	7.9	278.8	2.0					
12	01	01	1	08	-1.7	0.060	-9.000	-9.000	-999.	36.	11.4	0.10	
2.68	0.54			0.65	91.	7.9	279.9	2.0					
12	01	01	1	09	36.2	-9.000	-9.000	-9.000	37.	-999.	-99999.0	0.10	
2.68	0.31			0.00	0.	7.9	283.8	2.0					
12	01	01	1	10	108.4	0.139	0.707	0.009	119.	124.	-2.3	0.10	
2.68	0.24			0.92	319.	7.9	287.5	2.0					
12	01	01	1	11	160.5	0.114	1.137	0.005	334.	93.	-1.0	0.10	
2.68	0.21			0.62	23.	7.9	292.5	2.0					
12	01	01	1	12	186.7	0.125	1.473	0.005	623.	105.	-1.0	0.10	
2.68	0.20			0.69	18.	7.9	295.4	2.0					

12	01	01	1	13	186.8	0.130	1.761	0.005	1065.	112.	-1.1	0.10
2.68	0.20				0.74	250.	7.9	297.5	2.0			
12	01	01	1	14	161.7	0.150	1.834	0.005	1387.	139.	-1.9	0.10
2.68	0.21				0.96	347.	7.9	300.4	2.0			
12	01	01	1	15	105.5	0.243	1.633	0.005	1499.	288.	-12.4	0.10
2.68	0.24				2.11	194.	7.9	295.9	2.0			
12	01	01	1	16	32.4	0.211	1.109	0.005	1530.	233.	-26.3	0.10
2.68	0.33				1.98	186.	7.9	295.4	2.0			
12	01	01	1	17	-20.5	0.250	-9.000	-9.000	-999.	300.	69.2	0.10
2.68	0.60				2.81	293.	7.9	291.4	2.0			
12	01	01	1	18	-25.4	0.257	-9.000	-9.000	-999.	313.	72.8	0.10
2.68	1.00				2.90	301.	7.9	288.1	2.0			
12	01	01	1	19	-21.0	0.211	-9.000	-9.000	-999.	233.	49.0	0.10
2.68	1.00				2.40	313.	7.9	286.4	2.0			
12	01	01	1	20	-25.7	0.258	-9.000	-9.000	-999.	315.	73.3	0.10
2.68	1.00				2.91	302.	7.9	286.4	2.0			
12	01	01	1	21	-22.5	0.225	-9.000	-9.000	-999.	256.	55.7	0.10
2.68	1.00				2.55	306.	7.9	285.4	2.0			
12	01	01	1	22	-9.3	0.126	-9.000	-9.000	-999.	111.	19.5	0.10
2.68	1.00				1.48	284.	7.9	285.9	2.0			
12	01	01	1	23	-21.4	0.214	-9.000	-9.000	-999.	237.	50.3	0.10
2.68	1.00				2.43	282.	7.9	285.4	2.0			
12	01	01	1	24	-30.1	0.300	-9.000	-9.000	-999.	394.	98.9	0.10
2.68	1.00				3.36	300.	7.9	284.2	2.0			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	322.	1.13	282.1	99.0	-99.00	-99.00

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

\*\*\* AERMOD - VERSION 18081 \*\*\*    \*\*\* KL Fenix Construction HRA  
 \*\*\* 10/09/19  
 \*\*\* AERMET - VERSION 16216 \*\*\*    \*\*\*  
 \*\*\* 14:14:34

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

\*\*\* THE SUMMARY OF MAXIMUM PERIOD

( 43848 HRS) RESULTS \*\*\*

MICROGRAMS/M\*\*3                      \*\* CONC OF PM\_10        IN  
    \*\*

NETWORK		AVERAGE CONC		RECEPTOR (XR,	
GROUP ID		OF TYPE	GRID-ID		
YR, ZELEV, ZHILL, ZFLAG)					
-----					
ALL	1ST HIGHEST VALUE IS		128.39696	AT (	381600.00,
3745575.00,	6.91,	6.91,	0.00)	DC	
	2ND HIGHEST VALUE IS		124.75820	AT (	381600.00,
3745600.00,	6.64,	6.64,	0.00)	DC	
	3RD HIGHEST VALUE IS		124.59826	AT (	381600.00,
3745550.00,	6.68,	6.68,	0.00)	DC	
	4TH HIGHEST VALUE IS		114.29622	AT (	381600.00,
3745625.00,	6.70,	6.70,	0.00)	DC	
	5TH HIGHEST VALUE IS		112.70154	AT (	381600.00,
3745525.00,	6.97,	6.97,	0.00)	DC	
	6TH HIGHEST VALUE IS		98.22180	AT (	381600.00,
3745650.00,	6.77,	6.77,	0.00)	DC	
	7TH HIGHEST VALUE IS		92.35983	AT (	381600.00,
3745500.00,	7.09,	7.09,	0.00)	DC	
	8TH HIGHEST VALUE IS		86.49073	AT (	381625.00,
3745550.00,	6.76,	6.76,	0.00)	DC	
	9TH HIGHEST VALUE IS		85.71729	AT (	381625.00,
3745575.00,	6.59,	6.59,	0.00)	DC	
	10TH HIGHEST VALUE IS		82.00997	AT (	381625.00,
3745525.00,	7.11,	7.11,	0.00)	DC	

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

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
\*\*\* 10/09/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:14:34

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

\*\*\* THE SUMMARY OF

HIGHEST 1-HR RESULTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN  
\*\*

DATE

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

- - - - -  
- - - - -

ALL HIGH 1ST HIGH VALUE IS 6388.69874 ON 12122516: AT (  
381600.00, 3745525.00, 6.97, 6.97, 0.00) DC

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

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
\*\*\* 10/09/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:14:34

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

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1017 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 747 Calm Hours Identified  
  
A Total of 270 Missing Hours Identified ( 0.62 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 9034 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed  
threshold used 0.50  
ME W187 9034 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in  
AERMET

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 10/9/2019
** File: C:\Lakes\AERMOD View\AERMOD Runs\KL_Fenix_Con\KL_Fenix_Con.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE KL Fenix Construction HRA
  MODELOPT DFAULT CONC
  AVERTIME 1 PERIOD
  URBANOPT 9818605 Los_Angeles_County
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL KL_Fenix_Con.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1          VOLUME      381193.030   3745637.676      9.260
** DESCRSRC Construction
LOCATION VOL2          VOLUME      381218.030   3745637.676      8.810
** DESCRSRC Construction
LOCATION VOL3          VOLUME      381243.030   3745637.676      8.460
** DESCRSRC Construction
LOCATION VOL4          VOLUME      381268.030   3745637.676      8.390
** DESCRSRC Construction
LOCATION VOL5          VOLUME      381293.030   3745637.676      8.410
** DESCRSRC Construction
LOCATION VOL6          VOLUME      381318.030   3745637.676      8.600
** DESCRSRC Construction
LOCATION VOL7          VOLUME      381343.030   3745637.676      8.640
** DESCRSRC Construction
LOCATION VOL8          VOLUME      381368.030   3745637.676      8.330
** DESCRSRC Construction
LOCATION VOL9          VOLUME      381393.030   3745637.676      7.770
** DESCRSRC Construction

```

	LOCATION	VOL10	VOLUME	381418.030	3745637.676	7.830
**	DESCRSRC	Construction				
	LOCATION	VOL11	VOLUME	381443.030	3745637.676	8.040
**	DESCRSRC	Construction				
	LOCATION	VOL12	VOLUME	381468.030	3745637.676	7.770
**	DESCRSRC	Construction				
	LOCATION	VOL13	VOLUME	381493.030	3745637.676	7.810
**	DESCRSRC	Construction				
	LOCATION	VOL14	VOLUME	381518.030	3745637.676	7.840
**	DESCRSRC	Construction				
	LOCATION	VOL15	VOLUME	381543.030	3745637.676	7.820
**	DESCRSRC	Construction				
	LOCATION	VOL16	VOLUME	381189.972	3745612.676	9.130
**	DESCRSRC	Construction				
	LOCATION	VOL17	VOLUME	381214.972	3745612.676	8.730
**	DESCRSRC	Construction				
	LOCATION	VOL18	VOLUME	381239.972	3745612.676	9.040
**	DESCRSRC	Construction				
	LOCATION	VOL19	VOLUME	381264.972	3745612.676	8.830
**	DESCRSRC	Construction				
	LOCATION	VOL20	VOLUME	381289.972	3745612.676	8.890
**	DESCRSRC	Construction				
	LOCATION	VOL21	VOLUME	381314.972	3745612.676	9.020
**	DESCRSRC	Construction				
	LOCATION	VOL22	VOLUME	381339.972	3745612.676	9.000
**	DESCRSRC	Construction				
	LOCATION	VOL23	VOLUME	381364.972	3745612.676	8.900
**	DESCRSRC	Construction				
	LOCATION	VOL24	VOLUME	381389.972	3745612.676	8.680
**	DESCRSRC	Construction				
	LOCATION	VOL25	VOLUME	381414.972	3745612.676	8.870
**	DESCRSRC	Construction				
	LOCATION	VOL26	VOLUME	381439.972	3745612.676	8.860
**	DESCRSRC	Construction				
	LOCATION	VOL27	VOLUME	381464.972	3745612.676	9.020
**	DESCRSRC	Construction				
	LOCATION	VOL28	VOLUME	381489.972	3745612.676	8.640
**	DESCRSRC	Construction				
	LOCATION	VOL29	VOLUME	381514.972	3745612.676	8.580
**	DESCRSRC	Construction				
	LOCATION	VOL30	VOLUME	381539.972	3745612.676	8.330
**	DESCRSRC	Construction				
	LOCATION	VOL31	VOLUME	381189.085	3745587.676	9.130
**	DESCRSRC	Construction				
	LOCATION	VOL32	VOLUME	381214.085	3745587.676	9.070
**	DESCRSRC	Construction				
	LOCATION	VOL33	VOLUME	381239.085	3745587.676	9.400
**	DESCRSRC	Construction				
	LOCATION	VOL34	VOLUME	381264.085	3745587.676	9.060
**	DESCRSRC	Construction				
	LOCATION	VOL35	VOLUME	381289.085	3745587.676	9.160
**	DESCRSRC	Construction				
	LOCATION	VOL36	VOLUME	381314.085	3745587.676	9.300
**	DESCRSRC	Construction				



	LOCATION	VOL37	VOLUME	381339.085	3745587.676	9.100
**	DESCRSRC	Construction				
	LOCATION	VOL38	VOLUME	381364.085	3745587.676	8.990
**	DESCRSRC	Construction				
	LOCATION	VOL39	VOLUME	381389.085	3745587.676	9.160
**	DESCRSRC	Construction				
	LOCATION	VOL40	VOLUME	381414.085	3745587.676	9.010
**	DESCRSRC	Construction				
	LOCATION	VOL41	VOLUME	381439.085	3745587.676	9.240
**	DESCRSRC	Construction				
	LOCATION	VOL42	VOLUME	381464.085	3745587.676	9.290
**	DESCRSRC	Construction				
	LOCATION	VOL43	VOLUME	381489.085	3745587.676	9.030
**	DESCRSRC	Construction				
	LOCATION	VOL44	VOLUME	381514.085	3745587.676	8.670
**	DESCRSRC	Construction				
	LOCATION	VOL45	VOLUME	381539.085	3745587.676	8.130
**	DESCRSRC	Construction				
	LOCATION	VOL46	VOLUME	381167.363	3745562.676	9.020
**	DESCRSRC	Construction				
	LOCATION	VOL47	VOLUME	381192.363	3745562.676	9.570
**	DESCRSRC	Construction				
	LOCATION	VOL48	VOLUME	381217.363	3745562.676	9.340
**	DESCRSRC	Construction				
	LOCATION	VOL49	VOLUME	381242.363	3745562.676	9.710
**	DESCRSRC	Construction				
	LOCATION	VOL50	VOLUME	381267.363	3745562.676	9.300
**	DESCRSRC	Construction				
	LOCATION	VOL51	VOLUME	381292.363	3745562.676	9.220
**	DESCRSRC	Construction				
	LOCATION	VOL52	VOLUME	381317.363	3745562.676	9.090
**	DESCRSRC	Construction				
	LOCATION	VOL53	VOLUME	381342.363	3745562.676	8.730
**	DESCRSRC	Construction				
	LOCATION	VOL54	VOLUME	381367.363	3745562.676	8.910
**	DESCRSRC	Construction				
	LOCATION	VOL55	VOLUME	381392.363	3745562.676	9.140
**	DESCRSRC	Construction				
	LOCATION	VOL56	VOLUME	381417.363	3745562.676	9.070
**	DESCRSRC	Construction				
	LOCATION	VOL57	VOLUME	381442.363	3745562.676	9.180
**	DESCRSRC	Construction				
	LOCATION	VOL58	VOLUME	381467.363	3745562.676	9.260
**	DESCRSRC	Construction				
	LOCATION	VOL59	VOLUME	381492.363	3745562.676	8.960
**	DESCRSRC	Construction				
	LOCATION	VOL60	VOLUME	381517.363	3745562.676	8.540
**	DESCRSRC	Construction				
	LOCATION	VOL77	VOLUME	381542.363	3745562.676	8.120
**	DESCRSRC	Construction				
	LOCATION	VOL61	VOLUME	381492.363	3745562.676	8.960
**	DESCRSRC	Construction				
	LOCATION	VOL62	VOLUME	381165.589	3745537.676	9.010
**	DESCRSRC	Construction				

	LOCATION	VOL63	VOLUME	381190.589	3745537.676	9.370
**	DESCRSRC	Construction				
	LOCATION	VOL64	VOLUME	381215.589	3745537.676	9.410
**	DESCRSRC	Construction				
	LOCATION	VOL65	VOLUME	381240.589	3745537.676	9.510
**	DESCRSRC	Construction				
	LOCATION	VOL66	VOLUME	381265.589	3745537.676	9.330
**	DESCRSRC	Construction				
	LOCATION	VOL67	VOLUME	381290.589	3745537.676	8.630
**	DESCRSRC	Construction				
	LOCATION	VOL68	VOLUME	381315.589	3745537.676	8.520
**	DESCRSRC	Construction				
	LOCATION	VOL69	VOLUME	381340.589	3745537.676	8.400
**	DESCRSRC	Construction				
	LOCATION	VOL70	VOLUME	381365.589	3745537.676	8.830
**	DESCRSRC	Construction				
	LOCATION	VOL71	VOLUME	381390.589	3745537.676	8.800
**	DESCRSRC	Construction				
	LOCATION	VOL72	VOLUME	381415.589	3745537.676	8.890
**	DESCRSRC	Construction				
	LOCATION	VOL73	VOLUME	381440.589	3745537.676	8.930
**	DESCRSRC	Construction				
	LOCATION	VOL74	VOLUME	381465.589	3745537.676	8.850
**	DESCRSRC	Construction				
	LOCATION	VOL75	VOLUME	381490.589	3745537.676	8.690
**	DESCRSRC	Construction				
	LOCATION	VOL76	VOLUME	381515.589	3745537.676	8.480
**	DESCRSRC	Construction				
	LOCATION	VOL78	VOLUME	381540.589	3745537.676	8.110
**	DESCRSRC	Construction				
**	Source Parameters **					
	SRCPARAM	VOL1	0.128	5.000	5.814	1.400
	SRCPARAM	VOL2	0.128	5.000	5.814	1.400
	SRCPARAM	VOL3	0.128	5.000	5.814	1.400
	SRCPARAM	VOL4	0.128	5.000	5.814	1.400
	SRCPARAM	VOL5	0.128	5.000	5.814	1.400
	SRCPARAM	VOL6	0.128	5.000	5.814	1.400
	SRCPARAM	VOL7	0.128	5.000	5.814	1.400
	SRCPARAM	VOL8	0.128	5.000	5.814	1.400
	SRCPARAM	VOL9	0.128	5.000	5.814	1.400
	SRCPARAM	VOL10	0.128	5.000	5.814	1.400
	SRCPARAM	VOL11	0.128	5.000	5.814	1.400
	SRCPARAM	VOL12	0.128	5.000	5.814	1.400
	SRCPARAM	VOL13	0.128	5.000	5.814	1.400
	SRCPARAM	VOL14	0.128	5.000	5.814	1.400
	SRCPARAM	VOL15	0.128	5.000	5.814	1.400
	SRCPARAM	VOL16	0.128	5.000	5.814	1.400
	SRCPARAM	VOL17	0.128	5.000	5.814	1.400
	SRCPARAM	VOL18	0.128	5.000	5.814	1.400
	SRCPARAM	VOL19	0.128	5.000	5.814	1.400
	SRCPARAM	VOL20	0.128	5.000	5.814	1.400
	SRCPARAM	VOL21	0.128	5.000	5.814	1.400
	SRCPARAM	VOL22	0.128	5.000	5.814	1.400
	SRCPARAM	VOL23	0.128	5.000	5.814	1.400

[illegible]

SRCPARAM	VOL78	0.128	5.000	5.814	1.400
URBANSRC	ALL				

\*\* Variable Emissions Type: "By Season / Hour / Seven Days (SHRDOW7)"

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

\*\* Season = Winter; Day of Week = Monday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
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EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

\*\* Season = Spring; Day of Week = Monday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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\*\* Season = Summer; Day of Week = Monday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

\*\* Season = Fall; Day of Week = Monday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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\*\* Season = Winter; Day of Week = Tuesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

\*\* Season = Spring; Day of Week = Tuesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

\*\* Season = Summer; Day of Week = Tuesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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\*\* Season = Fall; Day of Week = Tuesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

\*\* Season = Winter; Day of Week = Wednesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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\*\* Season = Spring; Day of Week = Wednesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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\*\* Season = Summer; Day of Week = Wednesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
----------	------	---------	-----	-----	-----	-----	-----	-----	-----	-----

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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\*\* Season = Fall; Day of Week = Wednesday

EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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EMISFACT	VOL1	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
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EMISFACT	VOL1	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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\*\* Season = Winter; Day of Week = Thursday

	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day	of Week =	Thursday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Thursday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Thursday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day	of Week =	Friday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day	of Week =	Friday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Friday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Friday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL1		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day	of Week =	Saturday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day	of Week =	Saturday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Saturday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Saturday							
	EMISFACT	VOL1										

**	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Season =	Summer;	Day	of Week =	Sunday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Sunday							
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL1		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day	of Week =	Monday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day	of Week =	Monday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Monday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Monday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day	of Week =	Tuesday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day	of Week =	Tuesday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Tuesday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Tuesday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day	of Week =	Wednesday							
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2										

	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;			Day of Week = Thursday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;			Day of Week = Thursday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;			Day of Week = Thursday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;			Day of Week = Thursday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;			Day of Week = Friday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;			Day of Week = Friday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;			Day of Week = Friday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;			Day of Week = Friday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL2		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;			Day of Week = Saturday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;			Day of Week = Saturday								
	EMISFACT	VOL2		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL2		SHRDOW7	0.0	0.0						



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	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week =	Wednesday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week =	Thursday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week =	Thursday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week =	Thursday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week =	Thursday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week =	Friday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week =	Friday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week =	Friday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week =	Friday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL3		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week =	Saturday									
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week =										

EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday										
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday										
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday										
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL3		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday										
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL4		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Monday										
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL4		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Monday										
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL4		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Monday										
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL4		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Tuesday										
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL4		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Tuesday										
EMISFACT	VOL4		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL4		SHRDOW7										



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	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall; Day of Week = Tuesday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter; Day of Week = Wednesday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring; Day of Week = Wednesday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer; Day of Week = Wednesday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall; Day of Week = Wednesday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter; Day of Week = Thursday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring; Day of Week = Thursday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer; Day of Week = Thursday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall; Day of Week = Thursday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL7		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter; Day of Week = Friday											
	EMISFACT	VOL7		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL										

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	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Tuesday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Wednesday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Wednesday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Wednesday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Thursday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Thursday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Thursday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Thursday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL8		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL8		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Friday									
	EMISFACT	VOL8		SHRDOW7	0.0	0.						

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**	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Season = Summer;	Day	of Week = Friday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT VOL9		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Friday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT VOL9		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Saturday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Saturday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday								
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT VOL9		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday								
	EMISFACT VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT VOL10		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Monday								
	EMISFACT VOL10		SHRDOW7	0.0	0.0						

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EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL10		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL10		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL10		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Saturday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Saturday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Saturday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Saturday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Sunday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Sunday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL10		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL10		SHRDOW7	0.0	0.0								



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	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Tuesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Tuesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Tuesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Wednesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Wednesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Wednesday									
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL12		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL12		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Thursday									

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	EMISFACT	VOL14		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL14		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL14		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week =	Sunday								
	EMISFACT	VOL14		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL14		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL14		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week =	Monday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week =	Monday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;		Day of Week =	Monday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week =	Monday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week =	Tuesday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week =	Tuesday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;		Day of Week =	Tuesday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week =	Tuesday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week =	Wednesday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL15		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week =	Wednesday								

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	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week	= Sunday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week	= Sunday								
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL15		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week	= Monday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week	= Monday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week	= Monday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week	= Monday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week	= Tuesday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week	= Tuesday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week	= Tuesday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week	= Tuesday								
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL16		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL16		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week	= Wednesday								

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EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL17		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL17		SHRDOW7	4.2	4.2								

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EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL18		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL18		SHRDOW7	4.2	4.2								



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EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Tuesday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Wednesday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL21		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL21		SHRDOW7	4.2	4.2								



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	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL22		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week =	Friday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL22		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week =	Saturday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week =	Saturday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week =	Saturday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week =	Saturday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week =	Sunday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week =	Sunday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week =	Sunday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week =	Sunday									
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL22		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week =	Monday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL23		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week =	Monday									

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	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL23		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Friday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL23		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Friday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL23		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Saturday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Saturday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday									
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL23		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday									

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**	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Season =	Spring;	Day	of Week =	Monday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Monday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Monday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day	of Week =	Tuesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day	of Week =	Tuesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Tuesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Tuesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day	of Week =	Wednesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day	of Week =	Wednesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day	of Week =	Wednesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day	of Week =	Wednesday							
	EMISFACT	VOL26		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL26		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	



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EMISFACT	VOL27		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Sunday											
EMISFACT	VOL27		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL27		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL27		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Monday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Monday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Monday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Monday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Tuesday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Tuesday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Tuesday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Tuesday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Wednesday											
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL28		SHRDOW7	4.2	4.2								

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EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday										
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL28		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL29		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Monday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL29		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL29		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL29		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Tuesday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL29		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Tuesday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL29		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL29		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Tuesday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0</							



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EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday										
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL29		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday										
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Monday										
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Monday										
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Monday										
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Tuesday										
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Tuesday										
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	V												



	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Wednesday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Thursday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Thursday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Thursday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Thursday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Friday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Friday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Friday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Friday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL30		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Saturday										
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL30		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Saturday										
	EMISFACT	VOL30	</									

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**	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Season =	Fall;	Day of Week =	Saturday								
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day of Week =	Sunday								
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day of Week =	Sunday								
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day of Week =	Sunday								
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day of Week =	Sunday								
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL31		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day of Week =	Monday								
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL32		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day of Week =	Monday								
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL32		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Summer;	Day of Week =	Monday								
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL32		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Fall;	Day of Week =	Monday								
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL32		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Winter;	Day of Week =	Tuesday								
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL32		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season =	Spring;	Day of Week =	Tuesday								
	EMISFACT	VOL32		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL32		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2

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**	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Season =	Fall;	Day of Week =	Friday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
	EMISFACT	VOL35	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Winter;	Day of Week =	Saturday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Spring;	Day of Week =	Saturday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Summer;	Day of Week =	Saturday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Fall;	Day of Week =	Saturday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Winter;	Day of Week =	Sunday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Spring;	Day of Week =	Sunday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Summer;	Day of Week =	Sunday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Fall;	Day of Week =	Sunday									
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	EMISFACT	VOL35	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season =	Winter;	Day of Week =	Monday									
	EMISFACT	VOL36	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
	EMISFACT	VOL36	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	

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EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL37		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL37		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL37		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Saturday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Saturday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Saturday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Saturday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Sunday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Sunday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL37		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL37		SHRDOW7	0.0	0.0								



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	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Tuesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Tuesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Tuesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Wednesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Wednesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Wednesday									
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL39		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL39		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Thursday									

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EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL42		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Saturday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Saturday										
EMISFACT	VOL42		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL42		SHRDOW7	0.0	0.0								



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EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL44		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL44		SHRDOW7	4.2	4.2								



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EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL45		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL45		SHRDOW7	4.2	4.2								





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	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday									
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday									
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday									
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday									
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday									
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday									
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL46		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday									
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Monday									
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday									
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday									
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Tuesday									

EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Tuesday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Wednesday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Wednesday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Wednesday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Wednesday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Thursday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Thursday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Thursday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Thursday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Friday											
EMISFACT	VOL47		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL47		SHRDOW7	4.2	4.2	4.2	0						

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EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Tuesday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Wednesday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL48		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL48		SHRDOW7	4.2	4.2								



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	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL49		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week = Friday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL49		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week = Saturday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week = Saturday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;		Day of Week = Saturday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week = Saturday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week = Sunday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week = Sunday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;		Day of Week = Sunday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week = Sunday									
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL49		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week = Monday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL50		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week = Monday									

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	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL50		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Friday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL50		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Friday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL50		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Saturday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Saturday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday									
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL50		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday									

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EMISFACT	VOL53		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Monday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Monday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Monday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Tuesday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Tuesday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Tuesday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Wednesday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL54		SHRDOW7	4.2	4.2								

	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Thursday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Thursday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Friday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Friday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Friday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Friday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL54		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Saturday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Saturday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday									
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday									

EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Sunday											
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL54		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Monday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Monday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Monday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Monday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Tuesday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Tuesday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Tuesday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Tuesday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Wednesday											
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL55		SHRDOW7	4.2	4.2								

	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Thursday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Thursday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Thursday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Friday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Friday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Friday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Friday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL55		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Saturday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Saturday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday									
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday									

EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday										
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL55		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Monday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Monday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Monday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Tuesday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Tuesday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Tuesday										
EMISFACT	VOL56		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL56												



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	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week = Wednesday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week = Thursday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week = Thursday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;		Day of Week = Thursday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week = Thursday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week = Friday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week = Friday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;		Day of Week = Friday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;		Day of Week = Friday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL57		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;		Day of Week = Saturday									
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL57		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;		Day of Week = Saturday									
	EMISFACT	VOL57	</									

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	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Wednesday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Thursday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Thursday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Thursday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Thursday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Friday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Friday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Friday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Friday									
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL58		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL58		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Saturday									

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EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday										
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday										
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday										
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday										
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday										
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL59		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday										
EMISFACT	VOL60		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL60		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL60		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Monday										
EMISFACT	VOL60		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL60		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL60		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday										
EMISFACT	VOL60		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
EMISFACT	VOL60		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL60		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday										
EMISFACT	VOL60		SHRDOW7	0.0	0.0	0.0</							



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EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL62		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL62		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Saturday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Saturday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Saturday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Saturday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Sunday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Sunday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Sunday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Sunday										
EMISFACT	VOL62		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL62		SHRDOW7	0.0	0.0								



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	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Tuesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Tuesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Tuesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Wednesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Wednesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Wednesday									
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL65		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL65		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Thursday									

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EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL66		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL66		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL66		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL66		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL66		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL66		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Saturday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Saturday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Saturday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Saturday										
EMISFACT	VOL66		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL66		SHRDOW7	0.0	0.0								



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	EMISFACT	VOL67		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL67		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL67		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Sunday										
	EMISFACT	VOL67		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL67		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL67		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Monday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Monday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Monday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Monday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Tuesday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Tuesday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Tuesday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Tuesday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Wednesday										
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Wednesday										
	EMISFACT	VOL68	</									

EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL68		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Saturday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Saturday										
EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	VOL68		SHRDOW7	0.0	0.0								

	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday									
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday									
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL68		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Monday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Tuesday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Tuesday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Tuesday									
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL69		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL69		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Wednesday									

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EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Friday										
EMISFACT	VOL70		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL70		SHRDOW7	4.2	4.2								



[illegible]

EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Friday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Friday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Friday										
EMISFACT	VOL71		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL71		SHRDOW7	4.2	4.2								







	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday									
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday									
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday									
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday									
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday									
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday									
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL72		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday									
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Monday									
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Monday									
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Monday									
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Tuesday									

EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Tuesday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Wednesday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Wednesday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Wednesday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Wednesday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Thursday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day of Week = Thursday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day of Week = Thursday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day of Week = Thursday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day of Week = Friday											
EMISFACT	VOL73		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL73		SHRDOW7	4.2	4.2	4.2	0						

[illegible]

EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Tuesday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Wednesday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Thursday										
EMISFACT	VOL74		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL74		SHRDOW7	4.2	4.2								



[illegible]

EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Tuesday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Tuesday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Tuesday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Wednesday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Wednesday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Wednesday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Fall;	Day	of Week = Wednesday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Winter;	Day	of Week = Thursday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Spring;	Day	of Week = Thursday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2	
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
**	Season = Summer;	Day	of Week = Thursday										
EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
EMISFACT	VOL75		SHRDOW7	4.2	4.2								



	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Friday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL75		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Saturday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Saturday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Saturday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Saturday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Sunday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Sunday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Sunday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Sunday										
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL75		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Monday										
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL76		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Monday										
	EMISFACT	VOL76	</									



	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL76		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Friday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL76		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Friday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
	EMISFACT	VOL76		SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Saturday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Saturday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Saturday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Saturday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Sunday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day	of Week = Sunday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day	of Week = Sunday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day	of Week = Sunday									
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	EMISFACT	VOL76		SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day	of Week = Monday									

[illegible]

EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
EMISFACT	VOL78	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Friday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
EMISFACT	VOL78	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Friday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
EMISFACT	VOL78	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Friday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
EMISFACT	VOL78	SHRDOW7	4.2	4.2	4.2	0.0	4.2	4.2	4.2	4.2	4.2
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Saturday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Saturday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Saturday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Saturday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Winter;	Day of Week = Sunday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Spring;	Day of Week = Sunday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Summer;	Day of Week = Sunday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
**	Season = Fall;	Day of Week = Sunday									
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	VOL78	SHRDOW7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SRCGROUP	ALL									
SO FINISHED											
**											
*****											
** AERMOD Receptor Pathway											
*****											
**											

```

**
RE STARTING
  INCLUDED KL_Fenix_Con.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "P:\300.Environmental\10029 Carson On-Call\Phase 10 - KL
Fenix Truck Terminal SP\AQ-GHG\HRA Con\KLGB_V9_ADJU\KLGB_v9.SFC"
  PROFFILE "P:\300.Environmental\10029 Carson On-Call\Phase 10 - KL
Fenix Truck Terminal SP\AQ-GHG\HRA Con\KLGB_V9_ADJU\KLGB_v9.PFL"
  SURFDATA 23129 2012
  UAIRDATA 3190 2012
  PROFBASE 10.0 METERS
ME FINISHED

```

```

**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST KL_FENIX_CON.AD\01H1GALL.PLT 31
  PLOTFILE PERIOD ALL KL_FENIX_CON.AD\PE00GALL.PLT 32
  SUMMFILE KL_Fenix_Con.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	9034	MEOPEN: THRESH_1MIN 1-min ASOS wind speed
threshold used		0.50
ME W187	9034	MEOPEN: ADJ_U* Option for Stable Low Winds used in

AERMET

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

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
\*\*\* 10/09/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:14:34

PAGE 1

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

\*\*\* MODEL SETUP OPTIONS

SUMMARY \*\*\*

- - - - -  
- - - - -

\*\*Model Is Setup For Calculation of Average CONcEntration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 78 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_10

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

\*\*This Run Includes: 78 Source(s); 1 Source Group(s); and  
1355 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 78 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 OPENPIT source(s)



and: 0 BUOYANT LINE source(s) with 0 line(s)

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

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

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

Model Outputs 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) = 10.00 ;

Decay Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC

; Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 4.1 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: KL\_Fenix\_Con.err

\*\*File for Summary of Results: KL\_Fenix\_Con.sum

\*\*\* AERMOD - VERSION 18081 \*\*\*      \*\*\* KL Fenix Construction HRA  
 \*\*\* 10/09/19  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
 \*\*\* 14:14:34

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

\*\*\* VOLUME SOURCE DATA

\*\*\*

INIT.	INIT.	NUMBER	EMISSION	RATE		BASE	RELEASE
SOURCE	URBAN	EMISSION	RATE				
SY	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	
ID	SCALAR	VARY					
(METERS)	(METERS)	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		BY					
VOL1		0	0.12800E+00	381193.0	3745637.7	9.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL2		0	0.12800E+00	381218.0	3745637.7	8.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL3		0	0.12800E+00	381243.0	3745637.7	8.5	5.00
5.81	1.40	YES	SHRDOW7				
VOL4		0	0.12800E+00	381268.0	3745637.7	8.4	5.00
5.81	1.40	YES	SHRDOW7				
VOL5		0	0.12800E+00	381293.0	3745637.7	8.4	5.00
5.81	1.40	YES	SHRDOW7				
VOL6		0	0.12800E+00	381318.0	3745637.7	8.6	5.00
5.81	1.40	YES	SHRDOW7				
VOL7		0	0.12800E+00	381343.0	3745637.7	8.6	5.00
5.81	1.40	YES	SHRDOW7				
VOL8		0	0.12800E+00	381368.0	3745637.7	8.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL9		0	0.12800E+00	381393.0	3745637.7	7.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL10		0	0.12800E+00	381418.0	3745637.7	7.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL11		0	0.12800E+00	381443.0	3745637.7	8.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL12		0	0.12800E+00	381468.0	3745637.7	7.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL13		0	0.12800E+00	381493.0	3745637.7	7.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL14		0	0.12800E+00	381518.0	3745637.7	7.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL15		0	0.12800E+00	381543.0	3745637.7	7.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL16		0	0.12800E+00	381190.0	3745612.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				

VOL17		0	0.12800E+00	381215.0	3745612.7	8.7	5.00
5.81	1.40	YES	SHRDOW7				
VOL18		0	0.12800E+00	381240.0	3745612.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL19		0	0.12800E+00	381265.0	3745612.7	8.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL20		0	0.12800E+00	381290.0	3745612.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL21		0	0.12800E+00	381315.0	3745612.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL22		0	0.12800E+00	381340.0	3745612.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL23		0	0.12800E+00	381365.0	3745612.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL24		0	0.12800E+00	381390.0	3745612.7	8.7	5.00
5.81	1.40	YES	SHRDOW7				
VOL25		0	0.12800E+00	381415.0	3745612.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL26		0	0.12800E+00	381440.0	3745612.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL27		0	0.12800E+00	381465.0	3745612.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL28		0	0.12800E+00	381490.0	3745612.7	8.6	5.00
5.81	1.40	YES	SHRDOW7				
VOL29		0	0.12800E+00	381515.0	3745612.7	8.6	5.00
5.81	1.40	YES	SHRDOW7				
VOL30		0	0.12800E+00	381540.0	3745612.7	8.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL31		0	0.12800E+00	381189.1	3745587.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL32		0	0.12800E+00	381214.1	3745587.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL33		0	0.12800E+00	381239.1	3745587.7	9.4	5.00
5.81	1.40	YES	SHRDOW7				
VOL34		0	0.12800E+00	381264.1	3745587.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL35		0	0.12800E+00	381289.1	3745587.7	9.2	5.00
5.81	1.40	YES	SHRDOW7				
VOL36		0	0.12800E+00	381314.1	3745587.7	9.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL37		0	0.12800E+00	381339.1	3745587.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL38		0	0.12800E+00	381364.1	3745587.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL39		0	0.12800E+00	381389.1	3745587.7	9.2	5.00
5.81	1.40	YES	SHRDOW7				
VOL40		0	0.12800E+00	381414.1	3745587.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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\*\*\* VOLUME SOURCE DATA

\*\*\*

INIT.	INIT.	NUMBER	EMISSION RATE			BASE	RELEASE
SOURCE		URBAN	EMISSION RATE				
SY	SZ	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT
ID		SOURCE	SCALAR VARY				
(METERS)	(METERS)	CATS.		(METERS)	(METERS)	(METERS)	(METERS)
			BY				
VOL41		0	0.12800E+00	381439.1	3745587.7	9.2	5.00
5.81	1.40	YES	SHRDOW7				
VOL42		0	0.12800E+00	381464.1	3745587.7	9.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL43		0	0.12800E+00	381489.1	3745587.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL44		0	0.12800E+00	381514.1	3745587.7	8.7	5.00
5.81	1.40	YES	SHRDOW7				
VOL45		0	0.12800E+00	381539.1	3745587.7	8.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL46		0	0.12800E+00	381167.4	3745562.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL47		0	0.12800E+00	381192.4	3745562.7	9.6	5.00
5.81	1.40	YES	SHRDOW7				
VOL48		0	0.12800E+00	381217.4	3745562.7	9.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL49		0	0.12800E+00	381242.4	3745562.7	9.7	5.00
5.81	1.40	YES	SHRDOW7				
VOL50		0	0.12800E+00	381267.4	3745562.7	9.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL51		0	0.12800E+00	381292.4	3745562.7	9.2	5.00
5.81	1.40	YES	SHRDOW7				
VOL52		0	0.12800E+00	381317.4	3745562.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL53		0	0.12800E+00	381342.4	3745562.7	8.7	5.00
5.81	1.40	YES	SHRDOW7				
VOL54		0	0.12800E+00	381367.4	3745562.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL55		0	0.12800E+00	381392.4	3745562.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL56		0	0.12800E+00	381417.4	3745562.7	9.1	5.00
5.81	1.40	YES	SHRDOW7				

VOL57		0	0.12800E+00	381442.4	3745562.7	9.2	5.00
5.81	1.40	YES	SHRDOW7				
VOL58		0	0.12800E+00	381467.4	3745562.7	9.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL59		0	0.12800E+00	381492.4	3745562.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL60		0	0.12800E+00	381517.4	3745562.7	8.5	5.00
5.81	1.40	YES	SHRDOW7				
VOL77		0	0.12800E+00	381542.4	3745562.7	8.1	5.00
5.81	1.40	YES	SHRDOW7				
VOL61		0	0.12800E+00	381492.4	3745562.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL62		0	0.12800E+00	381165.6	3745537.7	9.0	5.00
5.81	1.40	YES	SHRDOW7				
VOL63		0	0.12800E+00	381190.6	3745537.7	9.4	5.00
5.81	1.40	YES	SHRDOW7				
VOL64		0	0.12800E+00	381215.6	3745537.7	9.4	5.00
5.81	1.40	YES	SHRDOW7				
VOL65		0	0.12800E+00	381240.6	3745537.7	9.5	5.00
5.81	1.40	YES	SHRDOW7				
VOL66		0	0.12800E+00	381265.6	3745537.7	9.3	5.00
5.81	1.40	YES	SHRDOW7				
VOL67		0	0.12800E+00	381290.6	3745537.7	8.6	5.00
5.81	1.40	YES	SHRDOW7				
VOL68		0	0.12800E+00	381315.6	3745537.7	8.5	5.00
5.81	1.40	YES	SHRDOW7				
VOL69		0	0.12800E+00	381340.6	3745537.7	8.4	5.00
5.81	1.40	YES	SHRDOW7				
VOL70		0	0.12800E+00	381365.6	3745537.7	8.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL71		0	0.12800E+00	381390.6	3745537.7	8.8	5.00
5.81	1.40	YES	SHRDOW7				
VOL72		0	0.12800E+00	381415.6	3745537.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL73		0	0.12800E+00	381440.6	3745537.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL74		0	0.12800E+00	381465.6	3745537.7	8.9	5.00
5.81	1.40	YES	SHRDOW7				
VOL75		0	0.12800E+00	381490.6	3745537.7	8.7	5.00
5.81	1.40	YES	SHRDOW7				
VOL76		0	0.12800E+00	381515.6	3745537.7	8.5	5.00
5.81	1.40	YES	SHRDOW7				
VOL78		0	0.12800E+00	381540.6	3745537.7	8.1	5.00
5.81	1.40	YES	SHRDOW7				

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
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*** AERMET - VERSION 16216 ***    ***
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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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\*\*\* SOURCE IDs DEFINING SOURCE

GROUPS \*\*\*

SRCGROUP ID	SOURCE IDs				
-----	-----				
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5
, VOL6	, VOL7	, VOL8	,		
	VOL9	, VOL10	, VOL11	, VOL12	,
VOL13	, VOL14	, VOL15	, VOL16	,	
	VOL17	, VOL18	, VOL19	, VOL20	,
VOL21	, VOL22	, VOL23	, VOL24	,	
	VOL25	, VOL26	, VOL27	, VOL28	,
VOL29	, VOL30	, VOL31	, VOL32	,	
	VOL33	, VOL34	, VOL35	, VOL36	,
VOL37	, VOL38	, VOL39	, VOL40	,	
	VOL41	, VOL42	, VOL43	, VOL44	,
VOL45	, VOL46	, VOL47	, VOL48	,	
	VOL49	, VOL50	, VOL51	, VOL52	,
VOL53	, VOL54	, VOL55	, VOL56	,	
	VOL57	, VOL58	, VOL59	, VOL60	,
VOL77	, VOL61	, VOL62	, VOL63	,	
	VOL64	, VOL65	, VOL66	, VOL67	,
VOL68	, VOL69	, VOL70	, VOL71	,	
	VOL72	, VOL73	, VOL74	, VOL75	,
VOL76	, VOL78	,			

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*** AERMOD - VERSION 18081 *** *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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\*\*\* SOURCE IDs DEFINED AS URBAN

SOURCES \*\*\*

URBAN ID	URBAN POP	SOURCE IDs			
-----	-----				
	9818605.	VOL1	, VOL2	, VOL3	, VOL4
, VOL5	, VOL6	, VOL7	,		
VOL8	,				
	VOL9	, VOL10	, VOL11	, VOL12	,
VOL13	, VOL14	, VOL15	, VOL16	,	
	VOL17	, VOL18	, VOL19	, VOL20	,
VOL21	, VOL22	, VOL23	, VOL24	,	
	VOL25	, VOL26	, VOL27	, VOL28	,
VOL29	, VOL30	, VOL31	, VOL32	,	
	VOL33	, VOL34	, VOL35	, VOL36	,
VOL37	, VOL38	, VOL39	, VOL40	,	
	VOL41	, VOL42	, VOL43	, VOL44	,
VOL45	, VOL46	, VOL47	, VOL48	,	
	VOL49	, VOL50	, VOL51	, VOL52	,
VOL53	, VOL54	, VOL55	, VOL56	,	
	VOL57	, VOL58	, VOL59	, VOL60	,
VOL77	, VOL61	, VOL62	, VOL63	,	
	VOL64	, VOL65	, VOL66	, VOL67	,
VOL68	, VOL69	, VOL70	, VOL71	,	
	VOL72	, VOL73	, VOL74	, VOL75	,
VOL76	, VOL78	,			

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
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*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

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      * SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

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```

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

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```

                                SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 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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                                SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 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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                                SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 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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```

                                SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 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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                                SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
						SEASON = SPRING; DAY OF							
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
						SEASON = SUMMER; DAY OF							
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
						SEASON = FALL ; DAY OF							
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
						SEASON = WINTER; DAY OF							
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
						SEASON = SPRING; DAY OF							
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
						SEASON = SUMMER; DAY OF							
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
						SEASON = FALL ; DAY OF							
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+								

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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PAGE      7
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

      * SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

```

```

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

```

```

                                SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00

```

```

                                SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00

```

```

                                SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00

```

```

                                SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00

```

```

                                SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01

```

[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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



```

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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PAGE      8
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

      * SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

```

```

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

```

```

                                     SEASON = WINTER; DAY OF
WEEK = MONDAY

```

```

      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5
.0000E+00      6 .0000E+00      7 .0000E+00      8 .4200E+01
      9 .4200E+01     10 .4200E+01     11 .4200E+01     12 .0000E+00     13
.4200E+01     14 .4200E+01     15 .4200E+01     16 .4200E+01
     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21
.0000E+00     22 .0000E+00     23 .0000E+00     24 .0000E+00

```

```

                                     SEASON = SPRING; DAY OF
WEEK = MONDAY

```

```

      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5
.0000E+00      6 .0000E+00      7 .0000E+00      8 .4200E+01
      9 .4200E+01     10 .4200E+01     11 .4200E+01     12 .0000E+00     13
.4200E+01     14 .4200E+01     15 .4200E+01     16 .4200E+01
     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21
.0000E+00     22 .0000E+00     23 .0000E+00     24 .0000E+00

```

```

                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY

```

```

      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5
.0000E+00      6 .0000E+00      7 .0000E+00      8 .4200E+01
      9 .4200E+01     10 .4200E+01     11 .4200E+01     12 .0000E+00     13
.4200E+01     14 .4200E+01     15 .4200E+01     16 .4200E+01
     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21
.0000E+00     22 .0000E+00     23 .0000E+00     24 .0000E+00

```

```

                                     SEASON = FALL ; DAY OF
WEEK = MONDAY

```

```

      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5
.0000E+00      6 .0000E+00      7 .0000E+00      8 .4200E+01
      9 .4200E+01     10 .4200E+01     11 .4200E+01     12 .0000E+00     13
.4200E+01     14 .4200E+01     15 .4200E+01     16 .4200E+01
     17 .0000E+00     18 .0000E+00     19 .0000E+00     20 .0000E+00     21
.0000E+00     22 .0000E+00     23 .0000E+00     24 .0000E+00

```

```

                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY

```

```

      1 .0000E+00      2 .0000E+00      3 .0000E+00      4 .0000E+00      5
.0000E+00      6 .0000E+00      7 .0000E+00      8 .4200E+01
      9 .4200E+01     10 .4200E+01     11 .4200E+01     12 .0000E+00     13
.4200E+01     14 .4200E+01     15 .4200E+01     16 .4200E+01

```

[illegible]

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

```
SEASON = SUMMER; DAY OF
```

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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PAGE      9
*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

          * SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) *

```

```

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

```

```

                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00

```

```

                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00

```

```

                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00

```

```

                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 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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```

                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01

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[illegible]





1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL5          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

```



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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL6          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL7          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL8          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL9          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL10          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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



```

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL11          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL12          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]



[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL13          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
   9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
  17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
   9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
  17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
   9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
  17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
   9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
  17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
   9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01

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[illegible]



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

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SOURCE ID = VOL14          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL15          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	.4200E+01
14	.4200E+01	15	.4200E+01	16	.4200E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00	25	.0000E+00	26	.0000E+00	27	.0000E+00	28	.0000E+00

SEASON = WINTER; DAY OF

WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.0000E+00
11	.4200E+01	12	.4200E+01	13	.4200E+01	14	.4200E+01	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00	25	.0000E+00

SEASON = SPRING; DAY OF

WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00	25	.0000E+00

SEASON = SUMMER; DAY OF

WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.0000E+00
11	.4200E+01	12	.4200E+01	13	.4200E+01	14	.4200E+01	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00	25	.0000E+00

SEASON = FALL ; DAY OF

WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.0000E+00
11	.4200E+01	12	.4200E+01	13	.4200E+01	14	.4200E+01	15	.0000E+00
16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00	25	.0000E+00

SEASON = WINTER; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00	25	.0000E+00

SEASON = SPRING; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00	25	.0000E+00

SEASON = SUMMER; DAY OF

WEEK = FRIDAY



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL16          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL17          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL18          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR

```

```

- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

```

SEASON = SPRING; DAY OF
WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

```

SEASON = SUMMER; DAY OF
WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

```

SEASON = FALL ; DAY OF
WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

```

SEASON = WINTER; DAY OF
WEEK = TUESDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		

[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL19          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL20          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
                                SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01

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[illegible]



[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL21          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL22          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

```

17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SPRING; DAY OF						
WEEK = TUESDAY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SUMMER; DAY OF						
WEEK = TUESDAY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = FALL ; DAY OF						
WEEK = TUESDAY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = WINTER; DAY OF						
WEEK = WEDNESDY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SPRING; DAY OF						
WEEK = WEDNESDY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SUMMER; DAY OF						
WEEK = WEDNESDY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = FALL ; DAY OF						

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL23          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

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SEASON = WINTER; DAY OF
```

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SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

WEEK = FRIDAY



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL24          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL25          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL26          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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



```

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL27          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL28          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]



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SEASON = WINTER; DAY OF
```

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SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL29          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL30          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING;							DAY OF WEEK = TUESDAY						
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER;							DAY OF WEEK = TUESDAY						
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ;							DAY OF WEEK = TUESDAY						
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = WINTER;							DAY OF WEEK = WEDNESDY						
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING;							DAY OF WEEK = WEDNESDY						
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER;							DAY OF WEEK = WEDNESDY						
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ;							DAY OF WEEK = WEDNESDY						
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+										

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL31          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL32          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL33          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

```



17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SPRING; DAY OF						
WEEK = TUESDAY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SUMMER; DAY OF						
WEEK = TUESDAY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = FALL ; DAY OF						
WEEK = TUESDAY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = WINTER; DAY OF						
WEEK = WEDNESDY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SPRING; DAY OF						
WEEK = WEDNESDY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = SUMMER; DAY OF						
WEEK = WEDNESDY												
1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
.0000E+00	6	.0000E+00		7	.0000E+00		8	.4200E+01				
9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
.4200E+01	14	.4200E+01		15	.4200E+01		16	.4200E+01				
17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
.0000E+00	22	.0000E+00		23	.0000E+00		24	.0000E+00				
						SEASON = FALL ; DAY OF						
WEEK = WEDNESDY												
1	.0000E+00		2	.0000E+00								

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL34          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL35          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

```

	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
	SEASON = SPRING; DAY OF WEEK = TUESDAY												
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
	SEASON = SUMMER; DAY OF WEEK = TUESDAY												
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
	SEASON = FALL ; DAY OF WEEK = TUESDAY												
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
	SEASON = WINTER; DAY OF WEEK = TUESDAY												
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
	SEASON = SPRING; DAY OF WEEK = WEDNESDY												
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
	SEASON = SUMMER; DAY OF WEEK = WEDNESDY												
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
	SEASON = FALL ; DAY OF WEEK = WEDNESDY												
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000								

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL36          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]



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SEASON = WINTER; DAY OF
```

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SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

```
SEASON = SUMMER; DAY OF
```

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL37          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL38          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL39          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL40          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR

```

```

-----
SEASON = WINTER; DAY OF
WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = SPRING; DAY OF

```

WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = SUMMER; DAY OF

```

WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = FALL ; DAY OF

```

WEEK = MONDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		

SEASON = WINTER; DAY OF

```

WEEK = TUESDAY

```

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.4200E+01	9	.4200E+01	10	.4200E+01
11	.4200E+01	12	.0000E+00	13	.4200E+01	14	.4200E+01	15	.4200E+01
16	.4200E+01								

[illegible]



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL41          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL42          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL43          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL44          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]



[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL45          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL46          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL47          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]





1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL48          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

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SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

```
SEASON = SUMMER; DAY OF
```

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL49          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = WINTER; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4			

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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PAGE 55

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

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SOURCE ID = VOL50          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = WINTER; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3						

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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```

*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL51          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

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SEASON = WINTER; DAY OF
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SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL52          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]



[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL53          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL54          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL55          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

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SEASON = WINTER; DAY OF
```

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SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

```
SEASON = SUMMER; DAY OF
```

WEEK = FRIDAY



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL56          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

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SEASON = WINTER; DAY OF
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SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

```
SEASON = SUMMER; DAY OF
```

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL57          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL58          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL59          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
										SEASON = SPRING;		DAY OF	
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
										SEASON = SUMMER;		DAY OF	
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
										SEASON = FALL ;		DAY OF	
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
										SEASON = WINTER;		DAY OF	
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
										SEASON = SPRING;		DAY OF	
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL60          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]



[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL77          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
	SEASON = SPRING; DAY OF												
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
	SEASON = SUMMER; DAY OF												
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
	SEASON = FALL ; DAY OF												
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
	SEASON = WINTER; DAY OF												
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
	SEASON = SPRING; DAY OF												
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16	.	.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.	.0000E+00	23	.	.0000E+00	24	.	.0000E+00			
	SEASON = SUMMER; DAY OF												
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.	.0000E+00	7	.	.0000E+00	8	.	.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.	.4200E+01	15	.	.4200E+01	16					

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```



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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL61          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL62          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL63          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

```

	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
										SEASON = SPRING;		DAY OF	
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
										SEASON = SUMMER;		DAY OF	
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
										SEASON = FALL ;		DAY OF	
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
										SEASON = WINTER;		DAY OF	
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
										SEASON = SPRING;		DAY OF	
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E						

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL64          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL65          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
							SEASON = SPRING;	DAY OF	
WEEK = TUESDAY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
							SEASON = SUMMER;	DAY OF	
WEEK = TUESDAY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
							SEASON = FALL ;	DAY OF	
WEEK = TUESDAY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
							SEASON = WINTER;	DAY OF	
WEEK = WEDNESDY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
							SEASON = SPRING;	DAY OF	
WEEK = WEDNESDY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
							SEASON = SUMMER;	DAY OF	
WEEK = WEDNESDY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00				

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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PAGE 72

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL66          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
   9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ; DAY OF													
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = WINTER; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SPRING; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = SUMMER; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
SEASON = FALL ; DAY OF													
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.00		

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL67          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
	SEASON = SPRING;						DAY OF						
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
	SEASON = SUMMER;						DAY OF						
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
	SEASON = FALL ;						DAY OF						
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
	SEASON = WINTER;						DAY OF						
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
	SEASON = SPRING;						DAY OF						
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22		.0000E+00	23		.0000E+00	24		.0000E+00			
	SEASON = SUMMER;						DAY OF						
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6		.0000E+00	7		.0000E+00	8		.4200E+01			
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14		.4200E+01	15		.4200E+01	16		.4200E+01			
	17	.0000E+00		18	.0000E+00								





1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL68          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

```



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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL69          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL70          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
- - - - -
- - - - -
SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21
.0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00
SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5
.0000E+00  6 .0000E+00  7 .0000E+00  8 .4200E+01
  9 .4200E+01 10 .4200E+01 11 .4200E+01 12 .0000E+00 13
.4200E+01 14 .4200E+01 15 .4200E+01 16 .4200E+01

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[illegible]

[illegible]



1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

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SOURCE ID = VOL71          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
	SEASON = SPRING;						DAY OF		
WEEK = TUESDAY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
	SEASON = SUMMER;						DAY OF		
WEEK = TUESDAY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
	SEASON = FALL ;						DAY OF		
WEEK = TUESDAY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
	SEASON = WINTER;						DAY OF		
WEEK = WEDNESDY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
	SEASON = SPRING;						DAY OF		
WEEK = WEDNESDY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
	SEASON = SUMMER;						DAY OF		
WEEK = WEDNESDY									
	1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01		
	9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01		
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00		
	SEASON = FALL ;						DAY OF		

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

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SOURCE ID = VOL72          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL73          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

```
SEASON = FALL ; DAY OF
```

```
SEASON = WINTER; DAY OF
```

```
SEASON = SPRING; DAY OF
```

SEASON = SUMMER; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL74          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

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\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL75          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

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[illegible]



[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL76          ; SOURCE TYPE = VOLUME      :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
-----
                                     SEASON = WINTER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SPRING; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = SUMMER; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = FALL ; DAY OF
WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01
 17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21
.0000E+00  22 .0000E+00  23 .0000E+00  24 .0000E+00
                                     SEASON = WINTER; DAY OF
WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5
.0000E+00   6 .0000E+00   7 .0000E+00   8 .4200E+01
  9 .4200E+01  10 .4200E+01  11 .4200E+01  12 .0000E+00  13
.4200E+01  14 .4200E+01  15 .4200E+01  16 .4200E+01

```

	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
							SEASON = SPRING; DAY OF						
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
							SEASON = SUMMER; DAY OF						
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
							SEASON = FALL ; DAY OF						
WEEK = TUESDAY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
							SEASON = WINTER; DAY OF						
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
							SEASON = SPRING; DAY OF						
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
							SEASON = SUMMER; DAY OF						
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+00		3	.0000E+00		4	.0000E+00		5
	.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01						
	9	.4200E+01		10	.4200E+01		11	.4200E+01		12	.0000E+00		13
	.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01						
	17	.0000E+00		18	.0000E+00		19	.0000E+00		20	.0000E+00		21
	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00						
							SEASON = FALL ; DAY OF						
WEEK = WEDNESDY													
	1	.0000E+00		2	.0000E+								

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

```

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY,  
DIURNALLY AND BY DAY OF WEEK (SHRDOW7) \*

```

SOURCE ID = VOL78          ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR
SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                     SEASON = WINTER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = SPRING;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = SUMMER;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = FALL ;  DAY OF
WEEK = MONDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21
.0000E+00  22  .0000E+00  23  .0000E+00  24  .0000E+00
                                     SEASON = WINTER;  DAY OF
WEEK = TUESDAY
  1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5
.0000E+00   6  .0000E+00   7  .0000E+00   8  .4200E+01
  9  .4200E+01  10  .4200E+01  11  .4200E+01  12  .0000E+00  13
.4200E+01  14  .4200E+01  15  .4200E+01  16  .4200E+01

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[illegible]

[illegible]

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = FALL ; DAY OF

WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	
.0000E+00	6	.0000E+00	7	.0000E+00	8	.4200E+01			
9	.4200E+01	10	.4200E+01	11	.4200E+01	12	.0000E+00	13	
.4200E+01	14	.4200E+01	15	.4200E+01	16	.4200E+01			
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	
.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00			

SEASON = WINTER; DAY OF

WEEK = SATURDAY

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

SEASON = SPRING; DAY OF

WEEK = SATURDAY

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

SEASON = SUMMER; DAY OF

WEEK = SATURDAY

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

SEASON = FALL ; DAY OF

WEEK = SATURDAY

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

SEASON = WINTER; DAY OF

WEEK = SUNDAY

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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( 382050.0, 3744700.0, 8.8, 8.8, 0.0); (
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( 380850.0, 3744900.0,	11.5,	11.5,	0.0);	(
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( 381850.0, 3744900.0,	6.8,	6.8,	0.0);	(
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( 382050.0, 3744900.0,	7.2,	7.2,	0.0);	(
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382050.0, 3745000.0,	6.4,	6.4,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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```

( 382150.0, 3745000.0, 7.8, 7.8, 0.0); (
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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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```

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381950.0, 3744850.0, 7.3, 7.3, 0.0); (
( 381975.0, 3744850.0, 6.8, 6.8, 0.0); (
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381925.0, 3744875.0,	7.7,	7.7,	0.0);	
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( 380575.0, 3744900.0,	8.1,	8.1,	0.0);	(
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( 380625.0, 3744900.0,	10.5,	10.5,	0.0);	(
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( 380775.0, 3744900.0,	11.8,	11.8,	0.0);	(
380800.0, 3744900.0,	11.7,	11.7,	0.0);	
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( 380950.0, 3744900.0,	11.4,	11.4,	0.0);	(
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( 381625.0, 3744900.0,	8.6,	8.6,	0.0);	(
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( 381775.0, 3744900.0,	6.2,	6.2,	0.0);	(
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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

```

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( 380500.0, 3744925.0, 7.0, 8.5, 0.0); (
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( 380775.0, 3744950.0,	11.7,	11.7,	0.0);	(
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( 380975.0, 3744950.0,	10.9,	10.9,	0.0);	(
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( 381900.0, 3744950.0,	7.0,	7.0,	0.0);	(
381925.0, 3744950.0,	7.0,	7.0,	0.0);	
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381975.0, 3744950.0,	6.2,	6.2,	0.0);	
( 382000.0, 3744950.0,	6.9,	6.9,	0.0);	(
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380700.0, 3744975.0,	10.7,	10.7,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

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

```

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( 380900.0, 3745000.0,	11.7,	11.7,	0.0);	(
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381775.0, 3745000.0,	5.6,	5.6,	0.0);	
( 381800.0, 3745000.0,	4.9,	6.7,	0.0);	(
381825.0, 3745000.0,	6.9,	6.9,	0.0);	
( 381850.0, 3745000.0,	6.8,	6.8,	0.0);	(
381875.0, 3745000.0,	6.9,	6.9,	0.0);	
( 381900.0, 3745000.0,	6.9,	6.9,	0.0);	(
381925.0, 3745000.0,	6.7,	6.7,	0.0);	
( 381950.0, 3745000.0,	6.5,	6.5,	0.0);	(
381975.0, 3745000.0,	5.9,	5.9,	0.0);	
( 382000.0, 3745000.0,	6.1,	6.1,	0.0);	(
382025.0, 3745000.0,	6.0,	6.0,	0.0);	
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380550.0, 3745025.0,	8.4,	8.4,	0.0);	
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380700.0, 3745025.0,	9.6,	10.6,	0.0);	
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381650.0, 3745025.0,	6.2,	7.4,	0.0);	
( 381675.0, 3745025.0,	5.4,	5.4,	0.0);	(
381700.0, 3745025.0,	5.2,	5.2,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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```

( 381725.0, 3745025.0, 5.0, 5.0, 0.0); (
381750.0, 3745025.0, 5.2, 5.2, 0.0); (
( 381775.0, 3745025.0, 5.0, 5.0, 0.0); (
381800.0, 3745025.0, 5.0, 5.0, 0.0); (
( 381825.0, 3745025.0, 5.2, 5.2, 0.0); (
381850.0, 3745025.0, 5.1, 5.1, 0.0); (
( 381875.0, 3745025.0, 5.5, 5.5, 0.0); (
381900.0, 3745025.0, 5.4, 5.4, 0.0); (
( 381925.0, 3745025.0, 6.0, 6.7, 0.0); (
381950.0, 3745025.0, 6.1, 6.1, 0.0); (
( 381975.0, 3745025.0, 5.7, 5.7, 0.0); (
382000.0, 3745025.0, 6.5, 6.5, 0.0); (
( 382025.0, 3745025.0, 6.7, 6.7, 0.0); (
380425.0, 3745050.0, 8.6, 12.0, 0.0); (
( 380450.0, 3745050.0, 8.2, 8.2, 0.0); (
380475.0, 3745050.0, 8.2, 8.2, 0.0); (
( 380500.0, 3745050.0, 7.9, 7.9, 0.0); (
380525.0, 3745050.0, 7.5, 8.3, 0.0); (
( 380550.0, 3745050.0, 8.2, 8.2, 0.0); (
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( 380600.0, 3745050.0, 8.4, 8.4, 0.0); (
380625.0, 3745050.0, 8.1, 8.1, 0.0); (
( 380650.0, 3745050.0, 8.2, 9.5, 0.0); (
380675.0, 3745050.0, 9.5, 9.5, 0.0); (
( 380700.0, 3745050.0, 9.6, 10.7, 0.0); (
380725.0, 3745050.0, 10.5, 10.5, 0.0); (
( 380750.0, 3745050.0, 11.0, 11.0, 0.0); (
380775.0, 3745050.0, 10.5, 10.5, 0.0); (
( 380800.0, 3745050.0, 11.1, 11.1, 0.0); (
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( 380850.0, 3745050.0, 11.0, 11.0, 0.0); (
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( 380900.0, 3745050.0, 11.3, 11.3, 0.0); (
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( 381750.0, 3745050.0, 4.8, 4.8, 0.0); (
381775.0, 3745050.0, 4.7, 4.7, 0.0); (

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( 381850.0, 3745050.0,	5.1,	5.1,	0.0);	(
381875.0, 3745050.0,	5.2,	5.2,	0.0);	
( 381900.0, 3745050.0,	5.2,	5.2,	0.0);	(
381925.0, 3745050.0,	5.1,	5.1,	0.0);	
( 381950.0, 3745050.0,	5.1,	5.1,	0.0);	(
381975.0, 3745050.0,	5.6,	5.6,	0.0);	
( 382000.0, 3745050.0,	6.6,	6.6,	0.0);	(
382025.0, 3745050.0,	6.8,	6.8,	0.0);	
( 380425.0, 3745075.0,	8.5,	11.9,	0.0);	(
380450.0, 3745075.0,	8.1,	8.1,	0.0);	
( 380475.0, 3745075.0,	8.4,	8.4,	0.0);	(
380500.0, 3745075.0,	7.9,	8.7,	0.0);	
( 380525.0, 3745075.0,	7.1,	8.5,	0.0);	(
380550.0, 3745075.0,	8.3,	8.3,	0.0);	
( 380575.0, 3745075.0,	8.2,	8.2,	0.0);	(
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380650.0, 3745075.0,	8.5,	10.5,	0.0);	
( 380675.0, 3745075.0,	10.2,	10.2,	0.0);	(
380700.0, 3745075.0,	9.8,	9.8,	0.0);	
( 380725.0, 3745075.0,	10.9,	10.9,	0.0);	(
380750.0, 3745075.0,	11.1,	11.1,	0.0);	
( 380775.0, 3745075.0,	10.4,	10.4,	0.0);	(
380800.0, 3745075.0,	11.1,	11.1,	0.0);	
( 380825.0, 3745075.0,	11.3,	11.3,	0.0);	(
380850.0, 3745075.0,	10.9,	10.9,	0.0);	
( 380875.0, 3745075.0,	10.9,	10.9,	0.0);	(
380900.0, 3745075.0,	11.1,	11.1,	0.0);	
( 380925.0, 3745075.0,	12.4,	12.4,	0.0);	(
381600.0, 3745075.0,	7.1,	7.1,	0.0);	
( 381625.0, 3745075.0,	7.1,	7.1,	0.0);	(
381650.0, 3745075.0,	6.3,	6.3,	0.0);	
( 381675.0, 3745075.0,	5.6,	5.6,	0.0);	(
381700.0, 3745075.0,	5.3,	5.3,	0.0);	
( 381725.0, 3745075.0,	5.1,	5.1,	0.0);	(
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( 381775.0, 3745075.0,	4.9,	4.9,	0.0);	(
381800.0, 3745075.0,	5.1,	5.1,	0.0);	
( 381825.0, 3745075.0,	5.2,	5.2,	0.0);	(
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( 381875.0, 3745075.0,	5.3,	5.3,	0.0);	(
381900.0, 3745075.0,	5.2,	5.2,	0.0);	
( 381925.0, 3745075.0,	5.0,	5.0,	0.0);	(
381950.0, 3745075.0,	5.1,	5.1,	0.0);	
( 381975.0, 3745075.0,	5.7,	5.7,	0.0);	(
382000.0, 3745075.0,	6.3,	6.3,	0.0);	
( 382025.0, 3745075.0,	5.9,	5.9,	0.0);	(
380425.0, 3745100.0,	8.7,	11.9,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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```

( 380450.0, 3745100.0,      8.1,      8.1,      0.0); (
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( 380500.0, 3745100.0,      7.9,      8.6,      0.0); (
380525.0, 3745100.0,      6.9,      8.5,      0.0); (
( 380550.0, 3745100.0,      8.3,      8.3,      0.0); (
380575.0, 3745100.0,      8.0,      8.0,      0.0); (
( 380600.0, 3745100.0,      8.2,      8.2,      0.0); (
380625.0, 3745100.0,      8.2,      8.2,      0.0); (
( 380650.0, 3745100.0,      8.4,     10.9,      0.0); (
380675.0, 3745100.0,     10.6,     10.6,      0.0); (
( 380700.0, 3745100.0,     10.1,     10.1,      0.0); (
380725.0, 3745100.0,     11.0,     11.0,      0.0); (
( 380750.0, 3745100.0,     11.0,     11.0,      0.0); (
380775.0, 3745100.0,     10.4,     10.4,      0.0); (
( 380800.0, 3745100.0,     11.0,     11.0,      0.0); (
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( 380850.0, 3745100.0,     10.9,     10.9,      0.0); (
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( 381750.0, 3745100.0,      5.1,      5.1,      0.0); (
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( 381800.0, 3745100.0,      5.2,      5.2,      0.0); (
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( 381850.0, 3745100.0,      5.5,      5.5,      0.0); (
381875.0, 3745100.0,      5.5,      5.5,      0.0); (
( 381900.0, 3745100.0,      5.5,      5.5,      0.0); (
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( 381950.0, 3745100.0,      5.0,      5.0,      0.0); (
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( 382000.0, 3745100.0,      6.2,      6.2,      0.0); (
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( 380525.0, 3745125.0,	6.5,	8.5,	0.0);	(
380550.0, 3745125.0,	8.4,	8.4,	0.0);	
( 380575.0, 3745125.0,	8.0,	8.0,	0.0);	(
380600.0, 3745125.0,	8.2,	8.2,	0.0);	
( 380625.0, 3745125.0,	8.3,	8.3,	0.0);	(
380650.0, 3745125.0,	8.2,	11.1,	0.0);	
( 380675.0, 3745125.0,	11.0,	11.0,	0.0);	(
380700.0, 3745125.0,	10.2,	10.2,	0.0);	
( 380725.0, 3745125.0,	11.2,	11.2,	0.0);	(
380750.0, 3745125.0,	11.0,	11.0,	0.0);	
( 380775.0, 3745125.0,	10.4,	10.4,	0.0);	(
380800.0, 3745125.0,	10.9,	10.9,	0.0);	
( 380825.0, 3745125.0,	11.1,	11.1,	0.0);	(
380850.0, 3745125.0,	10.8,	10.8,	0.0);	
( 380875.0, 3745125.0,	10.8,	10.8,	0.0);	(
380900.0, 3745125.0,	11.0,	11.0,	0.0);	
( 380925.0, 3745125.0,	11.6,	13.0,	0.0);	(
381600.0, 3745125.0,	7.0,	7.0,	0.0);	
( 381625.0, 3745125.0,	6.8,	6.8,	0.0);	(
381650.0, 3745125.0,	5.6,	5.6,	0.0);	
( 381675.0, 3745125.0,	5.1,	5.1,	0.0);	(
381700.0, 3745125.0,	5.1,	5.1,	0.0);	
( 381725.0, 3745125.0,	5.2,	5.2,	0.0);	(
381750.0, 3745125.0,	5.2,	5.2,	0.0);	
( 381775.0, 3745125.0,	5.3,	5.3,	0.0);	(
381800.0, 3745125.0,	5.7,	5.7,	0.0);	
( 381825.0, 3745125.0,	6.3,	6.3,	0.0);	(
381850.0, 3745125.0,	5.7,	6.7,	0.0);	
( 381875.0, 3745125.0,	5.5,	5.5,	0.0);	(
381900.0, 3745125.0,	5.5,	5.5,	0.0);	
( 381925.0, 3745125.0,	5.1,	5.1,	0.0);	(
381950.0, 3745125.0,	5.3,	5.3,	0.0);	
( 381975.0, 3745125.0,	5.7,	5.7,	0.0);	(
382000.0, 3745125.0,	6.0,	6.0,	0.0);	
( 382025.0, 3745125.0,	6.4,	6.4,	0.0);	(
380425.0, 3745150.0,	8.4,	11.7,	0.0);	
( 380450.0, 3745150.0,	8.0,	8.0,	0.0);	(
380475.0, 3745150.0,	8.1,	8.1,	0.0);	
( 380500.0, 3745150.0,	7.9,	7.9,	0.0);	(
380525.0, 3745150.0,	6.3,	8.5,	0.0);	
( 380550.0, 3745150.0,	8.2,	8.2,	0.0);	(
380575.0, 3745150.0,	8.0,	8.0,	0.0);	
( 380600.0, 3745150.0,	8.4,	8.4,	0.0);	(
380625.0, 3745150.0,	8.3,	8.3,	0.0);	
( 380650.0, 3745150.0,	8.1,	11.2,	0.0);	(
380675.0, 3745150.0,	10.9,	10.9,	0.0);	
( 380700.0, 3745150.0,	10.2,	10.2,	0.0);	(
380725.0, 3745150.0,	11.2,	11.2,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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( 380800.0, 3745150.0, 10.8, 10.8, 0.0); (
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( 380850.0, 3745150.0, 10.8, 10.8, 0.0); (
380875.0, 3745150.0, 10.8, 10.8, 0.0); (
( 380900.0, 3745150.0, 10.9, 10.9, 0.0); (
380925.0, 3745150.0, 11.3, 13.0, 0.0); (
( 381600.0, 3745150.0, 6.9, 6.9, 0.0); (
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( 381900.0, 3745150.0, 5.2, 5.2, 0.0); (
381925.0, 3745150.0, 5.2, 5.2, 0.0); (
( 381950.0, 3745150.0, 5.3, 5.3, 0.0); (
381975.0, 3745150.0, 5.3, 5.3, 0.0); (
( 382000.0, 3745150.0, 5.6, 5.6, 0.0); (
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( 380475.0, 3745175.0, 8.1, 8.1, 0.0); (
380500.0, 3745175.0, 7.9, 7.9, 0.0); (
( 380525.0, 3745175.0, 6.0, 8.5, 0.0); (
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( 380575.0, 3745175.0, 7.9, 7.9, 0.0); (
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( 380675.0, 3745175.0, 11.1, 11.1, 0.0); (
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380750.0, 3745175.0, 11.1, 11.1, 0.0); (

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( 380775.0, 3745175.0,	10.3,	10.3,	0.0);	(
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( 380825.0, 3745175.0,	11.0,	11.0,	0.0);	(
380850.0, 3745175.0,	10.7,	10.7,	0.0);	
( 380875.0, 3745175.0,	10.7,	10.7,	0.0);	(
380900.0, 3745175.0,	11.0,	11.0,	0.0);	
( 380925.0, 3745175.0,	11.0,	13.4,	0.0);	(
381600.0, 3745175.0,	6.7,	6.7,	0.0);	
( 381625.0, 3745175.0,	7.0,	7.0,	0.0);	(
381650.0, 3745175.0,	7.1,	7.1,	0.0);	
( 381675.0, 3745175.0,	5.5,	7.2,	0.0);	(
381700.0, 3745175.0,	5.1,	5.1,	0.0);	
( 381725.0, 3745175.0,	5.0,	5.0,	0.0);	(
381750.0, 3745175.0,	5.5,	5.5,	0.0);	
( 381775.0, 3745175.0,	6.4,	6.4,	0.0);	(
381800.0, 3745175.0,	6.9,	6.9,	0.0);	
( 381825.0, 3745175.0,	6.3,	6.3,	0.0);	(
381850.0, 3745175.0,	5.9,	5.9,	0.0);	
( 381875.0, 3745175.0,	5.2,	5.2,	0.0);	(
381900.0, 3745175.0,	5.3,	5.3,	0.0);	
( 381925.0, 3745175.0,	5.2,	5.2,	0.0);	(
381950.0, 3745175.0,	5.3,	5.3,	0.0);	
( 381975.0, 3745175.0,	5.2,	5.2,	0.0);	(
382000.0, 3745175.0,	5.8,	5.8,	0.0);	
( 382025.0, 3745175.0,	3.3,	11.5,	0.0);	(
380425.0, 3745200.0,	8.2,	8.2,	0.0);	
( 380450.0, 3745200.0,	8.1,	8.1,	0.0);	(
380475.0, 3745200.0,	8.1,	8.1,	0.0);	
( 380500.0, 3745200.0,	8.0,	8.0,	0.0);	(
380525.0, 3745200.0,	5.8,	8.4,	0.0);	
( 380550.0, 3745200.0,	8.3,	8.3,	0.0);	(
380575.0, 3745200.0,	7.8,	7.8,	0.0);	
( 380600.0, 3745200.0,	8.0,	8.0,	0.0);	(
380625.0, 3745200.0,	8.3,	8.3,	0.0);	
( 380650.0, 3745200.0,	7.8,	11.1,	0.0);	(
380675.0, 3745200.0,	11.0,	11.0,	0.0);	
( 380700.0, 3745200.0,	10.0,	10.0,	0.0);	(
380725.0, 3745200.0,	11.1,	11.1,	0.0);	
( 380750.0, 3745200.0,	11.0,	11.0,	0.0);	(
380775.0, 3745200.0,	10.3,	10.3,	0.0);	
( 380800.0, 3745200.0,	10.6,	10.6,	0.0);	(
380825.0, 3745200.0,	11.0,	11.0,	0.0);	
( 380850.0, 3745200.0,	10.6,	10.6,	0.0);	(
380875.0, 3745200.0,	10.7,	10.7,	0.0);	
( 380900.0, 3745200.0,	10.9,	10.9,	0.0);	(
380925.0, 3745200.0,	10.9,	13.1,	0.0);	
( 381600.0, 3745200.0,	6.6,	6.6,	0.0);	(
381625.0, 3745200.0,	7.0,	7.0,	0.0);	
( 381650.0, 3745200.0,	7.2,	7.2,	0.0);	(
381675.0, 3745200.0,	5.7,	7.3,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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( 381700.0, 3745200.0, 5.4, 5.4, 0.0); (
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( 381750.0, 3745200.0, 6.3, 6.3, 0.0); (
381775.0, 3745200.0, 6.9, 6.9, 0.0); (
( 381800.0, 3745200.0, 6.6, 6.6, 0.0); (
381825.0, 3745200.0, 5.7, 5.7, 0.0); (
( 381850.0, 3745200.0, 5.3, 5.3, 0.0); (
381875.0, 3745200.0, 5.8, 5.8, 0.0); (
( 381900.0, 3745200.0, 5.7, 5.7, 0.0); (
381925.0, 3745200.0, 5.6, 5.6, 0.0); (
( 381950.0, 3745200.0, 5.5, 5.5, 0.0); (
381975.0, 3745200.0, 5.8, 5.8, 0.0); (
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380475.0, 3745225.0, 8.2, 8.2, 0.0); (
( 380500.0, 3745225.0, 8.0, 8.0, 0.0); (
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380625.0, 3745225.0, 8.2, 8.2, 0.0); (
( 380650.0, 3745225.0, 7.6, 11.1, 0.0); (
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( 380750.0, 3745225.0, 10.8, 10.8, 0.0); (
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( 381825.0, 3745225.0,	5.7,	5.7,	0.0);	(
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( 381875.0, 3745225.0,	5.5,	5.5,	0.0);	(
381900.0, 3745225.0,	5.7,	5.7,	0.0);	
( 381925.0, 3745225.0,	5.6,	5.6,	0.0);	(
381950.0, 3745225.0,	5.3,	5.3,	0.0);	
( 381975.0, 3745225.0,	5.9,	5.9,	0.0);	(
382000.0, 3745225.0,	2.0,	11.4,	0.0);	
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380450.0, 3745250.0,	8.2,	8.2,	0.0);	
( 380475.0, 3745250.0,	8.2,	8.2,	0.0);	(
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( 380575.0, 3745250.0,	7.7,	7.7,	0.0);	(
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( 380625.0, 3745250.0,	8.1,	8.1,	0.0);	(
380650.0, 3745250.0,	7.4,	11.1,	0.0);	
( 380675.0, 3745250.0,	10.9,	10.9,	0.0);	(
380700.0, 3745250.0,	10.2,	10.2,	0.0);	
( 380725.0, 3745250.0,	10.3,	10.3,	0.0);	(
380750.0, 3745250.0,	10.4,	10.4,	0.0);	
( 380775.0, 3745250.0,	10.5,	10.5,	0.0);	(
380800.0, 3745250.0,	10.4,	10.4,	0.0);	
( 380825.0, 3745250.0,	10.5,	10.5,	0.0);	(
380850.0, 3745250.0,	10.5,	10.5,	0.0);	
( 380875.0, 3745250.0,	10.6,	10.6,	0.0);	(
380900.0, 3745250.0,	10.5,	10.5,	0.0);	
( 380925.0, 3745250.0,	10.8,	10.8,	0.0);	(
380950.0, 3745250.0,	11.9,	13.9,	0.0);	
( 381600.0, 3745250.0,	6.7,	6.7,	0.0);	(
381625.0, 3745250.0,	6.4,	6.4,	0.0);	
( 381650.0, 3745250.0,	6.8,	6.8,	0.0);	(
381675.0, 3745250.0,	6.4,	6.4,	0.0);	
( 381700.0, 3745250.0,	7.0,	7.0,	0.0);	(
381725.0, 3745250.0,	6.9,	6.9,	0.0);	
( 381750.0, 3745250.0,	6.8,	6.8,	0.0);	(
381775.0, 3745250.0,	7.1,	7.1,	0.0);	
( 381800.0, 3745250.0,	6.8,	6.8,	0.0);	(
381825.0, 3745250.0,	5.7,	5.7,	0.0);	
( 381850.0, 3745250.0,	5.4,	5.4,	0.0);	(
381875.0, 3745250.0,	5.4,	5.4,	0.0);	
( 381900.0, 3745250.0,	5.3,	5.3,	0.0);	(
381925.0, 3745250.0,	6.0,	6.0,	0.0);	
( 381950.0, 3745250.0,	6.2,	6.2,	0.0);	(
381975.0, 3745250.0,	2.8,	11.4,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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```

( 382000.0, 3745250.0,      8.4,      10.7,      0.0); (
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( 380500.0, 3745275.0,      8.7,      8.7,      0.0); (
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( 380550.0, 3745275.0,      8.1,      8.1,      0.0); (
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( 380600.0, 3745275.0,      7.8,      7.8,      0.0); (
380625.0, 3745275.0,      8.1,      8.1,      0.0); (
( 380650.0, 3745275.0,      7.2,      11.0,      0.0); (
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( 380700.0, 3745275.0,      9.9,      10.8,      0.0); (
380725.0, 3745275.0,     10.3,     10.3,      0.0); (
( 380750.0, 3745275.0,     10.5,     10.5,      0.0); (
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381650.0, 3745275.0,      7.3,      7.3,      0.0); (
( 381675.0, 3745275.0,      6.7,      6.7,      0.0); (
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( 381725.0, 3745275.0,      7.0,      7.0,      0.0); (
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( 381925.0, 3745275.0,      5.9,      5.9,      0.0); (
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( 381975.0, 3745275.0,      5.6,     11.4,      0.0); (
382000.0, 3745275.0,     10.2,     10.2,      0.0); (

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( 380475.0, 3745300.0,	9.2,	9.2,	0.0);	(
380500.0, 3745300.0,	8.9,	9.6,	0.0);	
( 380525.0, 3745300.0,	6.6,	9.6,	0.0);	(
380550.0, 3745300.0,	6.1,	8.1,	0.0);	
( 380575.0, 3745300.0,	8.1,	8.1,	0.0);	(
380600.0, 3745300.0,	7.8,	7.8,	0.0);	
( 380625.0, 3745300.0,	8.1,	8.1,	0.0);	(
380650.0, 3745300.0,	7.0,	10.9,	0.0);	
( 380675.0, 3745300.0,	7.8,	10.9,	0.0);	(
380700.0, 3745300.0,	8.2,	8.2,	0.0);	
( 380725.0, 3745300.0,	9.4,	9.4,	0.0);	(
380750.0, 3745300.0,	9.4,	9.4,	0.0);	
( 380775.0, 3745300.0,	9.8,	9.8,	0.0);	(
380800.0, 3745300.0,	10.2,	10.2,	0.0);	
( 380825.0, 3745300.0,	10.2,	10.2,	0.0);	(
380850.0, 3745300.0,	10.3,	10.3,	0.0);	
( 380875.0, 3745300.0,	10.2,	10.2,	0.0);	(
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( 380925.0, 3745300.0,	10.1,	10.1,	0.0);	(
380950.0, 3745300.0,	10.2,	14.4,	0.0);	
( 381600.0, 3745300.0,	6.9,	6.9,	0.0);	(
381625.0, 3745300.0,	7.4,	7.4,	0.0);	
( 381650.0, 3745300.0,	7.4,	7.4,	0.0);	(
381675.0, 3745300.0,	6.8,	6.8,	0.0);	
( 381700.0, 3745300.0,	7.2,	7.2,	0.0);	(
381725.0, 3745300.0,	7.2,	7.2,	0.0);	
( 381750.0, 3745300.0,	7.1,	7.1,	0.0);	(
381775.0, 3745300.0,	7.1,	7.1,	0.0);	
( 381800.0, 3745300.0,	6.2,	6.2,	0.0);	(
381825.0, 3745300.0,	5.8,	5.8,	0.0);	
( 381850.0, 3745300.0,	5.4,	5.4,	0.0);	(
381875.0, 3745300.0,	5.3,	5.3,	0.0);	
( 381900.0, 3745300.0,	5.3,	5.3,	0.0);	(
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380500.0, 3745325.0,	9.0,	9.5,	0.0);	
( 380525.0, 3745325.0,	7.8,	7.8,	0.0);	(
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( 380675.0, 3745325.0,	7.8,	7.8,	0.0);	(
380700.0, 3745325.0,	8.0,	8.0,	0.0);	
( 380725.0, 3745325.0,	9.1,	9.1,	0.0);	(
380750.0, 3745325.0,	8.6,	8.6,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

```

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( 380775.0, 3745350.0, 8.7, 8.7, 0.0); (
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380950.0, 3745350.0,	10.0,	14.6,	0.0);	(
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381625.0, 3745350.0,	7.3,	7.3,	0.0);	(
( 381650.0, 3745350.0,	7.4,	7.4,	0.0);	(
381675.0, 3745350.0,	6.9,	6.9,	0.0);	(
( 381700.0, 3745350.0,	7.2,	7.2,	0.0);	(
381725.0, 3745350.0,	7.3,	7.3,	0.0);	(
( 381750.0, 3745350.0,	6.9,	6.9,	0.0);	(
381775.0, 3745350.0,	7.2,	7.2,	0.0);	(
( 381800.0, 3745350.0,	6.9,	6.9,	0.0);	(
381825.0, 3745350.0,	5.4,	6.4,	0.0);	(
( 381850.0, 3745350.0,	5.1,	5.1,	0.0);	(
381875.0, 3745350.0,	5.3,	5.3,	0.0);	(
( 381900.0, 3745350.0,	5.5,	5.5,	0.0);	(
381925.0, 3745350.0,	3.4,	11.3,	0.0);	(
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( 380475.0, 3745375.0,	10.5,	10.5,	0.0);	(
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( 380575.0, 3745375.0,	8.0,	8.0,	0.0);	(
380600.0, 3745375.0,	8.0,	8.0,	0.0);	(
( 380625.0, 3745375.0,	3.8,	9.8,	0.0);	(
380650.0, 3745375.0,	7.7,	7.7,	0.0);	(
( 380675.0, 3745375.0,	7.7,	7.7,	0.0);	(
380700.0, 3745375.0,	7.7,	7.7,	0.0);	(
( 380725.0, 3745375.0,	8.3,	8.3,	0.0);	(
380750.0, 3745375.0,	8.2,	8.2,	0.0);	(
( 380775.0, 3745375.0,	8.4,	8.4,	0.0);	(
380800.0, 3745375.0,	9.4,	9.4,	0.0);	(
( 380825.0, 3745375.0,	9.0,	9.0,	0.0);	(
380850.0, 3745375.0,	9.8,	9.8,	0.0);	(
( 380875.0, 3745375.0,	10.2,	10.2,	0.0);	(
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( 380925.0, 3745375.0,	9.2,	9.2,	0.0);	(
380950.0, 3745375.0,	9.4,	14.6,	0.0);	(
( 381600.0, 3745375.0,	7.1,	7.1,	0.0);	(
381625.0, 3745375.0,	7.2,	7.2,	0.0);	(
( 381650.0, 3745375.0,	7.2,	7.2,	0.0);	(
381675.0, 3745375.0,	7.1,	7.1,	0.0);	(
( 381700.0, 3745375.0,	7.1,	7.1,	0.0);	(
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( 381750.0, 3745375.0,	6.6,	6.6,	0.0);	(
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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

```

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380950.0, 3745450.0, 8.7, 14.8, 0.0); (
( 381600.0, 3745450.0, 7.3, 7.3, 0.0); (
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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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( 381750.0, 3745600.0,	6.5,	6.5,	0.0);	(
381775.0, 3745600.0,	6.4,	6.4,	0.0);	
( 381800.0, 3745600.0,	6.4,	6.4,	0.0);	(
381825.0, 3745600.0,	6.3,	6.3,	0.0);	
( 381850.0, 3745600.0,	4.2,	9.9,	0.0);	(
380425.0, 3745625.0,	10.1,	10.1,	0.0);	
( 380450.0, 3745625.0,	8.5,	8.5,	0.0);	(
380475.0, 3745625.0,	8.0,	8.0,	0.0);	
( 380500.0, 3745625.0,	7.5,	7.5,	0.0);	(
380525.0, 3745625.0,	8.2,	8.2,	0.0);	
( 380550.0, 3745625.0,	7.8,	7.8,	0.0);	(
380575.0, 3745625.0,	7.4,	7.4,	0.0);	
( 380600.0, 3745625.0,	6.6,	6.6,	0.0);	(
380625.0, 3745625.0,	6.6,	6.6,	0.0);	
( 380650.0, 3745625.0,	7.1,	7.1,	0.0);	(
380675.0, 3745625.0,	7.0,	10.6,	0.0);	
( 381600.0, 3745625.0,	6.7,	6.7,	0.0);	(
381625.0, 3745625.0,	6.5,	6.5,	0.0);	
( 381650.0, 3745625.0,	6.6,	6.6,	0.0);	(
381675.0, 3745625.0,	6.4,	6.4,	0.0);	
( 381700.0, 3745625.0,	6.4,	6.4,	0.0);	(
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( 381750.0, 3745625.0,	6.5,	6.5,	0.0);	(
381775.0, 3745625.0,	6.3,	6.3,	0.0);	
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381825.0, 3745625.0,	6.5,	6.5,	0.0);	
( 381850.0, 3745625.0,	2.4,	10.1,	0.0);	(
380425.0, 3745650.0,	9.2,	9.2,	0.0);	
( 380450.0, 3745650.0,	7.0,	9.5,	0.0);	(
380475.0, 3745650.0,	6.9,	6.9,	0.0);	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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```

( 380500.0, 3745650.0, 6.9, 8.1, 0.0); (
380525.0, 3745650.0, 8.6, 8.6, 0.0); (
( 380550.0, 3745650.0, 9.2, 9.2, 0.0); (
380575.0, 3745650.0, 8.2, 8.2, 0.0); (
( 380600.0, 3745650.0, 7.2, 8.2, 0.0); (
380625.0, 3745650.0, 6.4, 6.4, 0.0); (
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( 380500.0, 3745725.0,	7.9,	9.4,	0.0);	(
380525.0, 3745725.0,	9.5,	9.5,	0.0);	
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( 380650.0, 3745725.0,	7.5,	7.5,	0.0);	(
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( 380575.0, 3745775.0,	9.8,	9.8,	0.0);	(
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( 380625.0, 3745775.0,	8.3,	8.3,	0.0);	(
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( 380675.0, 3745800.0,	8.8,	11.3,	0.0);	(
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380550.0, 3745825.0,	10.8,	10.8,	0.0);	
( 380575.0, 3745825.0,	10.7,	10.7,	0.0);	(
380600.0, 3745825.0,	10.2,	10.7,	0.0);	
( 380625.0, 3745825.0,	9.5,	9.5,	0.0);	(
380650.0, 3745825.0,	9.8,	9.8,	0.0);	
( 380675.0, 3745825.0,	9.2,	11.2,	0.0);	(
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( 380525.0, 3745850.0,	10.0,	10.0,	0.0);	(
380550.0, 3745850.0,	9.9,	9.9,	0.0);	

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE CARTESIAN

RECEPTORS \*\*\*

(X-COORD, Y-COORD, ZELEV,

ZHILL, ZFLAG)

(METERS)

( 380575.0, 3745850.0, 9.9, 9.9, 0.0); (  
380600.0, 3745850.0, 9.9, 9.9, 0.0); (  
( 380625.0, 3745850.0, 9.9, 9.9, 0.0); (  
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( 380675.0, 3745850.0, 10.2, 10.2, 0.0);

8.23, 10.80, 1.54, 3.09, 5.14,

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDEFAULT CONC ELEV URBAN ADJ_U*

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

METEOROLOGICAL DATA \*\*\*

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Surface file:      P:\300.Environmental\10029 Carson On-Call\Phase 10 -
KL Fenix Truck Terminal SP\  Met Version: 16216
Profile file:      P:\300.Environmental\10029 Carson On-Call\Phase 10 -
KL Fenix Truck Terminal SP\
Surface format: FREE
Profile format: FREE
Surface station no.:      23129                      Upper air station no.:
3190

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Name: UNKNOWN                      Name:
UNKNOWN
Year:      2012                      Year:
2012

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First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
12	01	01	1	01	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	
2.68	1.00			1.13	322.	7.9	282.0	2.0					
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	
2.68	1.00			0.00	0.	7.9	281.4	2.0					
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	
2.68	1.00			0.74	79.	7.9	280.9	2.0					
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	
2.68	1.00			0.86	137.	7.9	280.9	2.0					
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	
2.68	1.00			0.00	0.	7.9	280.4	2.0					
12	01	01	1	06	-5.2	0.093	-9.000	-9.000	-999.	68.	14.0	0.10	
2.68	1.00			1.11	92.	7.9	279.9	2.0					
12	01	01	1	07	-2.3	0.066	-9.000	-9.000	-999.	41.	11.5	0.10	
2.68	1.00			0.69	67.	7.9	278.8	2.0					
12	01	01	1	08	-1.7	0.060	-9.000	-9.000	-999.	36.	11.4	0.10	
2.68	0.54			0.65	91.	7.9	279.9	2.0					
12	01	01	1	09	36.2	-9.000	-9.000	-9.000	37.	-999.	-99999.0	0.10	
2.68	0.31			0.00	0.	7.9	283.8	2.0					
12	01	01	1	10	108.4	0.139	0.707	0.009	119.	124.	-2.3	0.10	
2.68	0.24			0.92	319.	7.9	287.5	2.0					
12	01	01	1	11	160.5	0.114	1.137	0.005	334.	93.	-1.0	0.10	
2.68	0.21			0.62	23.	7.9	292.5	2.0					
12	01	01	1	12	186.7	0.125	1.473	0.005	623.	105.	-1.0	0.10	
2.68	0.20			0.69	18.	7.9	295.4	2.0					

12	01	01	1	13	186.8	0.130	1.761	0.005	1065.	112.	-1.1	0.10
2.68	0.20				0.74	250.	7.9	297.5	2.0			
12	01	01	1	14	161.7	0.150	1.834	0.005	1387.	139.	-1.9	0.10
2.68	0.21				0.96	347.	7.9	300.4	2.0			
12	01	01	1	15	105.5	0.243	1.633	0.005	1499.	288.	-12.4	0.10
2.68	0.24				2.11	194.	7.9	295.9	2.0			
12	01	01	1	16	32.4	0.211	1.109	0.005	1530.	233.	-26.3	0.10
2.68	0.33				1.98	186.	7.9	295.4	2.0			
12	01	01	1	17	-20.5	0.250	-9.000	-9.000	-999.	300.	69.2	0.10
2.68	0.60				2.81	293.	7.9	291.4	2.0			
12	01	01	1	18	-25.4	0.257	-9.000	-9.000	-999.	313.	72.8	0.10
2.68	1.00				2.90	301.	7.9	288.1	2.0			
12	01	01	1	19	-21.0	0.211	-9.000	-9.000	-999.	233.	49.0	0.10
2.68	1.00				2.40	313.	7.9	286.4	2.0			
12	01	01	1	20	-25.7	0.258	-9.000	-9.000	-999.	315.	73.3	0.10
2.68	1.00				2.91	302.	7.9	286.4	2.0			
12	01	01	1	21	-22.5	0.225	-9.000	-9.000	-999.	256.	55.7	0.10
2.68	1.00				2.55	306.	7.9	285.4	2.0			
12	01	01	1	22	-9.3	0.126	-9.000	-9.000	-999.	111.	19.5	0.10
2.68	1.00				1.48	284.	7.9	285.9	2.0			
12	01	01	1	23	-21.4	0.214	-9.000	-9.000	-999.	237.	50.3	0.10
2.68	1.00				2.43	282.	7.9	285.4	2.0			
12	01	01	1	24	-30.1	0.300	-9.000	-9.000	-999.	394.	98.9	0.10
2.68	1.00				3.36	300.	7.9	284.2	2.0			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	322.	1.13	282.1	99.0	-99.00	-99.00

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

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
380350.00	3744600.00	0.83768	
380450.00	3744600.00	0.89526	
380550.00	3744600.00	0.95752	
380650.00	3744600.00	1.02293	
380750.00	3744600.00	1.08568	
380850.00	3744600.00	1.16335	
380950.00	3744600.00	1.24133	
381050.00	3744600.00	1.32759	
381150.00	3744600.00	1.41373	
381250.00	3744600.00	1.50007	
381350.00	3744600.00	1.57470	
381450.00	3744600.00	1.63609	
381550.00	3744600.00	1.68002	
381650.00	3744600.00	1.70793	
381750.00	3744600.00	1.71347	
381850.00	3744600.00	1.70516	
381950.00	3744600.00	1.68606	
382050.00	3744600.00	1.65785	
382150.00	3744600.00	1.62219	
382250.00	3744600.00	1.57920	
382350.00	3744600.00	1.53041	
380350.00	3744700.00	0.92690	
380450.00	3744700.00	0.99957	
380550.00	3744700.00	1.08013	



	380650.00	3744700.00	1.16499
380750.00	3744700.00	1.24963	
	380850.00	3744700.00	1.35223
380950.00	3744700.00	1.45905	
	381050.00	3744700.00	1.57800
381150.00	3744700.00	1.69770	
	381250.00	3744700.00	1.81692
381350.00	3744700.00	1.91952	
	381450.00	3744700.00	2.00188
381550.00	3744700.00	2.05813	
	381650.00	3744700.00	2.08515
381750.00	3744700.00	2.08009	
	381850.00	3744700.00	2.06071
381950.00	3744700.00	2.02448	
	382050.00	3744700.00	1.97669
382150.00	3744700.00	1.91936	
	382250.00	3744700.00	1.85247
382350.00	3744700.00	1.77616	
	380350.00	3744800.00	1.02818
380450.00	3744800.00	1.12221	
	380550.00	3744800.00	1.22759
380650.00	3744800.00	1.33504	
	380750.00	3744800.00	1.46229
380850.00	3744800.00	1.60091	
	380950.00	3744800.00	1.75287
381050.00	3744800.00	1.91979	
	381150.00	3744800.00	2.09715
381250.00	3744800.00	2.27038	
	381350.00	3744800.00	2.41933
381450.00	3744800.00	2.53011	
	381550.00	3744800.00	2.59919
381650.00	3744800.00	2.61761	
	381750.00	3744800.00	2.59651
381850.00	3744800.00	2.55178	
	381950.00	3744800.00	2.48523
382050.00	3744800.00	2.40303	
	382150.00	3744800.00	2.30658
382250.00	3744800.00	2.19583	
	382350.00	3744800.00	2.07251
380350.00	3744900.00	1.13497	
	380450.00	3744900.00	1.26307
380550.00	3744900.00	1.40361	
	380650.00	3744900.00	1.55107
380750.00	3744900.00	1.72987	
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380950.00	3744900.00	2.15501	
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381750.00	3744900.00	3.34460	
	381850.00	3744900.00	3.25021
381950.00	3744900.00	3.12692	
	382050.00	3744900.00	2.97874
382150.00	3744900.00	2.80876	
	382250.00	3744900.00	2.61846
382350.00	3744900.00	2.41434	

	380350.00	3745000.00	1.25449
380450.00	3745000.00	1.42134	

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
380550.00	3745000.00	1.61021	
380650.00	3745000.00	1.83233	
380750.00	3745000.00	2.07901	
380850.00	3745000.00	2.37833	
380950.00	3745000.00	2.71849	
381650.00	3745000.00	4.61673	
381750.00	3745000.00	4.47844	
381850.00	3745000.00	4.28380	
381950.00	3745000.00	4.03681	
382050.00	3745000.00	3.75184	
382150.00	3745000.00	3.43748	
382250.00	3745000.00	3.10466	
382350.00	3745000.00	2.77206	
380350.00	3745100.00	1.37929	
380450.00	3745100.00	1.59192	
380550.00	3745100.00	1.84440	
380650.00	3745100.00	2.15601	
380750.00	3745100.00	2.52018	
380850.00	3745100.00	2.98305	
381650.00	3745100.00	6.63441	
381750.00	3745100.00	6.28842	
381850.00	3745100.00	5.84009	
381950.00	3745100.00	5.31212	
382050.00	3745100.00	4.74219	

	380350.00	3745200.00	1.51032
380450.00	3745200.00	1.76618	
	380550.00	3745200.00	2.09637
380650.00	3745200.00	2.52619	
	380750.00	3745200.00	3.06686
380850.00	3745200.00	3.80557	
	381650.00	3745200.00	10.26523
381750.00	3745200.00	9.30720	
	381850.00	3745200.00	8.17869
381950.00	3745200.00	6.99567	
	380350.00	3745300.00	1.61871
380450.00	3745300.00	1.93077	
	380550.00	3745300.00	2.34294
380650.00	3745300.00	2.91790	
	380750.00	3745300.00	3.73063
380850.00	3745300.00	4.88148	
	380950.00	3745300.00	6.58551
381650.00	3745300.00	17.26271	
	381750.00	3745300.00	14.31710
381850.00	3745300.00	11.36794	
	380350.00	3745400.00	1.69629
380450.00	3745400.00	2.05237	
	380550.00	3745400.00	2.56065
380650.00	3745400.00	3.27555	
	380750.00	3745400.00	4.37947
380850.00	3745400.00	6.14674	
	380950.00	3745400.00	9.21710
381650.00	3745400.00	31.70606	
	381750.00	3745400.00	21.64566
381850.00	3745400.00	14.47096	
	380350.00	3745500.00	1.74185
380450.00	3745500.00	2.12649	
	380550.00	3745500.00	2.67847
380650.00	3745500.00	3.51983	
	381650.00	3745500.00	57.61443
381750.00	3745500.00	26.88365	
	381850.00	3745500.00	14.97027
380350.00	3745600.00	1.73552	
	380450.00	3745600.00	2.13239
380550.00	3745600.00	2.69502	
	380650.00	3745600.00	3.54306
381650.00	3745600.00	57.36043	
	381750.00	3745600.00	22.58634
381850.00	3745600.00	12.28942	
	380350.00	3745700.00	1.68845
380450.00	3745700.00	2.05183	
	380550.00	3745700.00	2.56461
380650.00	3745700.00	3.34081	
	380550.00	3745800.00	2.35225
380650.00	3745800.00	3.01216	
	380425.00	3744850.00	1.16246
380450.00	3744850.00	1.19033	
	380475.00	3744850.00	1.21953
380500.00	3744850.00	1.24805	

	380525.00	3744850.00	1.28020
380550.00	3744850.00	1.31185	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

      X-COORD (M)  Y-COORD (M)      CONC      X-
COORD (M)  Y-COORD (M)      CONC
- - - - -
380575.00  3744850.00      1.34455
380600.00  3744850.00      1.37490
380625.00  3744850.00      1.40708
380650.00  3744850.00      1.43737
380675.00  3744850.00      1.47678
380700.00  3744850.00      1.51231
380725.00  3744850.00      1.54995
380750.00  3744850.00      1.58863
380775.00  3744850.00      1.62848
380800.00  3744850.00      1.66915
380825.00  3744850.00      1.71292
380850.00  3744850.00      1.75325
380875.00  3744850.00      1.80079
380925.00  3744850.00      1.89191
380950.00  3744850.00      1.93823
380975.00  3744850.00      1.98829
381625.00  3744850.00      2.97197
381650.00  3744850.00      2.96970
381675.00  3744850.00      2.96361
381700.00  3744850.00      2.95464
381725.00  3744850.00      2.94446
381750.00  3744850.00      2.93449
381775.00  3744850.00      2.92027
381800.00  3744850.00      2.90467

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	381825.00	3744850.00	2.88783
381850.00	3744850.00	2.86838	
	381875.00	3744850.00	2.84859
381900.00	3744850.00	2.82622	
	381925.00	3744850.00	2.80284
381950.00	3744850.00	2.77799	
	381975.00	3744850.00	2.75166
382000.00	3744850.00	2.72535	
	382025.00	3744850.00	2.69735
380425.00	3744875.00	1.19625	
	380450.00	3744875.00	1.22611
380475.00	3744875.00	1.25743	
	380500.00	3744875.00	1.28823
380525.00	3744875.00	1.32269	
	380550.00	3744875.00	1.35679
380575.00	3744875.00	1.39211	
	380600.00	3744875.00	1.42640
380625.00	3744875.00	1.46038	
	380650.00	3744875.00	1.49271
380675.00	3744875.00	1.53622	
	380700.00	3744875.00	1.57453
380725.00	3744875.00	1.61485	
	380750.00	3744875.00	1.65623
380775.00	3744875.00	1.69951	
	380800.00	3744875.00	1.74469
380825.00	3744875.00	1.79432	
	380850.00	3744875.00	1.83847
380875.00	3744875.00	1.88811	
	380925.00	3744875.00	1.99496
380950.00	3744875.00	2.04356	
	380975.00	3744875.00	2.09745
381625.00	3744875.00	3.17854	
	381650.00	3744875.00	3.17485
381675.00	3744875.00	3.16725	
	381700.00	3744875.00	3.15641
381725.00	3744875.00	3.14249	
	381750.00	3744875.00	3.12683
381775.00	3744875.00	3.11150	
	381800.00	3744875.00	3.09347
381825.00	3744875.00	3.07328	
	381850.00	3744875.00	3.05021
381875.00	3744875.00	3.02705	
	381900.00	3744875.00	3.00085
381925.00	3744875.00	2.97405	
	381950.00	3744875.00	2.94504
381975.00	3744875.00	2.91399	
	382000.00	3744875.00	2.88388
382025.00	3744875.00	2.85174	
	380425.00	3744900.00	1.23113
380450.00	3744900.00	1.26307	
	380475.00	3744900.00	1.29668
380500.00	3744900.00	1.33002	
	380525.00	3744900.00	1.36686
380550.00	3744900.00	1.40361	

	380575.00	3744900.00	1.44171
380600.00	3744900.00	1.48119	



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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	X-
380625.00	3744900.00	1.51562	
380650.00	3744900.00	1.55107	
380675.00	3744900.00	1.59928	
380700.00	3744900.00	1.64079	
380725.00	3744900.00	1.68491	
380750.00	3744900.00	1.72987	
380775.00	3744900.00	1.77632	
380800.00	3744900.00	1.82611	
380825.00	3744900.00	1.88154	
380850.00	3744900.00	1.93010	
380875.00	3744900.00	1.98434	
380925.00	3744900.00	2.10322	
380950.00	3744900.00	2.15501	
380975.00	3744900.00	2.21496	
381625.00	3744900.00	3.40874	
381650.00	3744900.00	3.40338	
381675.00	3744900.00	3.39307	
381700.00	3744900.00	3.37952	
381725.00	3744900.00	3.36367	
381750.00	3744900.00	3.34460	
381775.00	3744900.00	3.32338	
381800.00	3744900.00	3.30105	
381825.00	3744900.00	3.27662	
381850.00	3744900.00	3.25021	

	381875.00	3744900.00	3.22210
381900.00	3744900.00	3.19217	
	381925.00	3744900.00	3.16084
381950.00	3744900.00	3.12692	
	381975.00	3744900.00	3.09072
382000.00	3744900.00	3.05551	
	382025.00	3744900.00	3.01761
380425.00	3744925.00	1.26690	
	380450.00	3744925.00	1.30115
380475.00	3744925.00	1.33719	
	380500.00	3744925.00	1.37334
380525.00	3744925.00	1.41268	
	380550.00	3744925.00	1.45240
380575.00	3744925.00	1.49354	
	380600.00	3744925.00	1.53637
380625.00	3744925.00	1.57465	
	380650.00	3744925.00	1.61219
380675.00	3744925.00	1.66415	
	380700.00	3744925.00	1.71095
380725.00	3744925.00	1.75918	
	380750.00	3744925.00	1.80871
380775.00	3744925.00	1.85960	
	380800.00	3744925.00	1.91387
380825.00	3744925.00	1.97188	
	380850.00	3744925.00	2.03013
380875.00	3744925.00	2.08880	
	380925.00	3744925.00	2.21716
380950.00	3744925.00	2.28062	
	380975.00	3744925.00	2.34753
381625.00	3744925.00	3.66535	
	381650.00	3744925.00	3.65719
381675.00	3744925.00	3.64398	
	381700.00	3744925.00	3.62706
381725.00	3744925.00	3.60639	
	381750.00	3744925.00	3.58366
381775.00	3744925.00	3.55833	
	381800.00	3744925.00	3.53314
381825.00	3744925.00	3.50385	
	381850.00	3744925.00	3.47220
381875.00	3744925.00	3.43864	
	381900.00	3744925.00	3.40314
381925.00	3744925.00	3.36485	
	381950.00	3744925.00	3.32511
381975.00	3744925.00	3.28284	
	382000.00	3744925.00	3.24072
382025.00	3744925.00	3.19677	
	380425.00	3744950.00	1.30352
380450.00	3744950.00	1.34031	
	380475.00	3744950.00	1.37893
380500.00	3744950.00	1.41809	
	380525.00	3744950.00	1.46021
380550.00	3744950.00	1.50315	
	380575.00	3744950.00	1.54766
380600.00	3744950.00	1.59405	

	380625.00	3744950.00	1.63830
380650.00	3744950.00	1.67677	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	X-
380675.00	3744950.00	1.73232	
380700.00	3744950.00	1.78396	
380725.00	3744950.00	1.83789	
380750.00	3744950.00	1.89200	
380775.00	3744950.00	1.94769	
380800.00	3744950.00	2.00787	
380825.00	3744950.00	2.07211	
380850.00	3744950.00	2.13778	
380875.00	3744950.00	2.20030	
380950.00	3744950.00	2.41632	
380975.00	3744950.00	2.48982	
381625.00	3744950.00	3.95265	
381650.00	3744950.00	3.94029	
381675.00	3744950.00	3.92347	
381700.00	3744950.00	3.90192	
381725.00	3744950.00	3.87390	
381750.00	3744950.00	3.85028	
381775.00	3744950.00	3.81957	
381800.00	3744950.00	3.78761	
381825.00	3744950.00	3.75259	
381850.00	3744950.00	3.71502	
381875.00	3744950.00	3.67510	
381900.00	3744950.00	3.63292	
381925.00	3744950.00	3.58842	

	381950.00	3744950.00	3.54181
381975.00	3744950.00	3.49230	
	382000.00	3744950.00	3.44376
382025.00	3744950.00	3.39206	
	380425.00	3744975.00	1.34097
380450.00	3744975.00	1.38036	
	380475.00	3744975.00	1.42181
380500.00	3744975.00	1.46418	
	380525.00	3744975.00	1.50924
380550.00	3744975.00	1.55572	
	380575.00	3744975.00	1.60397
380600.00	3744975.00	1.65429	
	380625.00	3744975.00	1.70582
380650.00	3744975.00	1.75374	
	380675.00	3744975.00	1.80650
380700.00	3744975.00	1.86478	
	380725.00	3744975.00	1.92137
380750.00	3744975.00	1.98176	
	380775.00	3744975.00	2.04393
380800.00	3744975.00	2.10875	
	380825.00	3744975.00	2.17947
380850.00	3744975.00	2.25457	
	380875.00	3744975.00	2.32239
380900.00	3744975.00	2.39404	
	380950.00	3744975.00	2.56904
380975.00	3744975.00	2.64592	
	381625.00	3744975.00	4.27639
381650.00	3744975.00	4.25868	
	381675.00	3744975.00	4.23517
381700.00	3744975.00	4.20893	
	381725.00	3744975.00	4.18100
381750.00	3744975.00	4.14690	
	381775.00	3744975.00	4.11076
381800.00	3744975.00	4.07159	
	381825.00	3744975.00	4.02910
381850.00	3744975.00	3.98351	
	381875.00	3744975.00	3.93539
381900.00	3744975.00	3.88541	
	381925.00	3744975.00	3.83263
381950.00	3744975.00	3.77798	
	381975.00	3744975.00	3.72015
382000.00	3744975.00	3.66280	
	382025.00	3744975.00	3.60164
380425.00	3745000.00	1.37912	
	380450.00	3745000.00	1.42134
380475.00	3745000.00	1.46580	
	380500.00	3745000.00	1.51146
380525.00	3745000.00	1.55983	
	380550.00	3745000.00	1.61021
380575.00	3745000.00	1.66248	
	380600.00	3745000.00	1.71705
380625.00	3745000.00	1.77382	
	380650.00	3745000.00	1.83233
380675.00	3745000.00	1.88679	

	380700.00	3745000.00	1.95203
380725.00	3745000.00	2.01060	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

```

** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	X-
380750.00	3745000.00	2.07901	
380775.00	3745000.00	2.14946	
380800.00	3745000.00	2.21870	
380825.00	3745000.00	2.29573	
380850.00	3745000.00	2.37833	
380875.00	3745000.00	2.45559	
380900.00	3745000.00	2.53459	
380950.00	3745000.00	2.71849	
380975.00	3745000.00	2.82166	
381625.00	3745000.00	4.64287	
381650.00	3745000.00	4.61673	
381675.00	3745000.00	4.58765	
381700.00	3745000.00	4.55475	
381725.00	3745000.00	4.51595	
381750.00	3745000.00	4.47844	
381775.00	3745000.00	4.43372	
381800.00	3745000.00	4.38218	
381825.00	3745000.00	4.33865	
381850.00	3745000.00	4.28380	
381875.00	3745000.00	4.22631	
381900.00	3745000.00	4.16599	
381925.00	3745000.00	4.10264	
381950.00	3745000.00	4.03681	
381975.00	3745000.00	3.96754	

	382000.00	3745000.00	3.89792
382025.00	3745000.00	3.82558	
	380425.00	3745025.00	1.41790
380450.00	3745025.00	1.46310	
	380475.00	3745025.00	1.51077
380500.00	3745025.00	1.55995	
	380525.00	3745025.00	1.61180
380550.00	3745025.00	1.66643	
	380575.00	3745025.00	1.72304
380600.00	3745025.00	1.78226	
	380625.00	3745025.00	1.84397
380650.00	3745025.00	1.90862	
	380675.00	3745025.00	1.97248
380700.00	3745025.00	2.04415	
	380725.00	3745025.00	2.10548
380750.00	3745025.00	2.18252	
	380775.00	3745025.00	2.25994
380800.00	3745025.00	2.33859	
	380825.00	3745025.00	2.42288
380850.00	3745025.00	2.51138	
	380875.00	3745025.00	2.60020
380900.00	3745025.00	2.68900	
	381625.00	3745025.00	5.05938
381650.00	3745025.00	5.02691	
	381675.00	3745025.00	4.98850
381700.00	3745025.00	4.94732	
	381725.00	3745025.00	4.90001
381750.00	3745025.00	4.85088	
	381775.00	3745025.00	4.79495
381800.00	3745025.00	4.73621	
	381825.00	3745025.00	4.67463
381850.00	3745025.00	4.60852	
	381875.00	3745025.00	4.54111
381900.00	3745025.00	4.46835	
	381925.00	3745025.00	4.39549
381950.00	3745025.00	4.31768	
	381975.00	3745025.00	4.23579
382000.00	3745025.00	4.15433	
	382025.00	3745025.00	4.06865
380425.00	3745050.00	1.45721	
	380450.00	3745050.00	1.50559
380475.00	3745050.00	1.55646	
	380500.00	3745050.00	1.60955
380525.00	3745050.00	1.66512	
	380550.00	3745050.00	1.72421
380575.00	3745050.00	1.78553	
	380600.00	3745050.00	1.84993
380625.00	3745050.00	1.91707	
	380650.00	3745050.00	1.98771
380675.00	3745050.00	2.05985	
	380700.00	3745050.00	2.13656
380725.00	3745050.00	2.20863	
	380750.00	3745050.00	2.28627
380775.00	3745050.00	2.37862	



	380800.00	3745050.00	2.46295
380825.00	3745050.00	2.55615	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
380850.00	3745050.00	2.65661	
380875.00	3745050.00	2.75742	
380900.00	3745050.00	2.85913	
381625.00	3745050.00	5.53228	
381650.00	3745050.00	5.49312	
381675.00	3745050.00	5.44337	
381700.00	3745050.00	5.39072	
381725.00	3745050.00	5.33300	
381750.00	3745050.00	5.27010	
381775.00	3745050.00	5.20181	
381800.00	3745050.00	5.13040	
381825.00	3745050.00	5.05538	
381850.00	3745050.00	4.97583	
381875.00	3745050.00	4.89291	
381900.00	3745050.00	4.80578	
381925.00	3745050.00	4.71467	
381950.00	3745050.00	4.62081	
381975.00	3745050.00	4.52611	
382000.00	3745050.00	4.42896	
382025.00	3745050.00	4.32692	
380425.00	3745075.00	1.49690	
380450.00	3745075.00	1.54856	
380475.00	3745075.00	1.60314	
380500.00	3745075.00	1.66004	

	380525.00	3745075.00	1.71946
380550.00	3745075.00	1.78366	
	380575.00	3745075.00	1.85004
380600.00	3745075.00	1.91994	
	380625.00	3745075.00	1.99318
380650.00	3745075.00	2.07029	
	380675.00	3745075.00	2.14362
380700.00	3745075.00	2.23203	
	380725.00	3745075.00	2.30940
380750.00	3745075.00	2.39928	
	380775.00	3745075.00	2.50364
380800.00	3745075.00	2.59557	
	380825.00	3745075.00	2.69873
380850.00	3745075.00	2.81419	
	380875.00	3745075.00	2.92910
380900.00	3745075.00	3.04525	
	380925.00	3745075.00	3.14702
381600.00	3745075.00	6.11440	
	381625.00	3745075.00	6.07766
381650.00	3745075.00	6.02692	
	381675.00	3745075.00	5.96586
381700.00	3745075.00	5.89897	
	381725.00	3745075.00	5.82626
381750.00	3745075.00	5.74947	
	381775.00	3745075.00	5.66331
381800.00	3745075.00	5.57601	
	381825.00	3745075.00	5.48318
381850.00	3745075.00	5.38619	
	381875.00	3745075.00	5.28331
381900.00	3745075.00	5.17651	
	381925.00	3745075.00	5.06607
381950.00	3745075.00	4.95321	
	381975.00	3745075.00	4.83938
382000.00	3745075.00	4.72163	
	382025.00	3745075.00	4.59909
380425.00	3745100.00	1.53689	
	380450.00	3745100.00	1.59192
380475.00	3745100.00	1.65025	
	380500.00	3745100.00	1.71134
380525.00	3745100.00	1.77490	
	380550.00	3745100.00	1.84440
380575.00	3745100.00	1.91604	
	380600.00	3745100.00	1.99193
380625.00	3745100.00	2.07179	
	380650.00	3745100.00	2.15601
380675.00	3745100.00	2.23345	
	380700.00	3745100.00	2.33095
380725.00	3745100.00	2.41809	
	380750.00	3745100.00	2.52018
380775.00	3745100.00	2.63518	
	380800.00	3745100.00	2.73935
380825.00	3745100.00	2.85327	
	380850.00	3745100.00	2.98305
380875.00	3745100.00	3.11276	

	380900.00	3745100.00	3.24578
380925.00	3745100.00	3.36165	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

      X-COORD (M)  Y-COORD (M)      CONC      X-
COORD (M)  Y-COORD (M)      CONC
-----
      381600.00   3745100.00      6.75489
381625.00   3745100.00      6.70649
      381650.00   3745100.00      6.63441
381675.00   3745100.00      6.55833
      381700.00   3745100.00      6.47719
381725.00   3745100.00      6.38595
      381750.00   3745100.00      6.28842
381775.00   3745100.00      6.18367
      381800.00   3745100.00      6.07484
381825.00   3745100.00      5.95979
      381850.00   3745100.00      5.84009
381875.00   3745100.00      5.71488
      381900.00   3745100.00      5.58478
381925.00   3745100.00      5.45108
      381950.00   3745100.00      5.31212
381975.00   3745100.00      5.17365
      382000.00   3745100.00      5.03305
382025.00   3745100.00      4.88866
      380425.00   3745125.00      1.57699
380450.00   3745125.00      1.63556
      380475.00   3745125.00      1.69781
380500.00   3745125.00      1.76321
      380525.00   3745125.00      1.83110
380550.00   3745125.00      1.90634

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	380575.00	3745125.00	1.98367
380600.00	3745125.00	2.06596	
	380625.00	3745125.00	2.15289
380650.00	3745125.00	2.24473	
	380675.00	3745125.00	2.32614
380700.00	3745125.00	2.43553	
	380725.00	3745125.00	2.53164
380750.00	3745125.00	2.64681	
	380775.00	3745125.00	2.77499
380800.00	3745125.00	2.89295	
	380825.00	3745125.00	3.02195
380850.00	3745125.00	3.16724	
	380875.00	3745125.00	3.31346
380900.00	3745125.00	3.46253	
	380925.00	3745125.00	3.61054
381600.00	3745125.00	7.49990	
	381625.00	3745125.00	7.43290
381650.00	3745125.00	7.34183	
	381675.00	3745125.00	7.24341
381700.00	3745125.00	7.13888	
	381725.00	3745125.00	7.02451
381750.00	3745125.00	6.90137	
	381775.00	3745125.00	6.77215
381800.00	3745125.00	6.63721	
	381825.00	3745125.00	6.49664
381850.00	3745125.00	6.34398	
	381875.00	3745125.00	6.18831
381900.00	3745125.00	6.02935	
	381925.00	3745125.00	5.86439
381950.00	3745125.00	5.69882	
	381975.00	3745125.00	5.53147
382000.00	3745125.00	5.36120	
	382025.00	3745125.00	5.18945
380425.00	3745150.00	1.61699	
	380450.00	3745150.00	1.67926
380475.00	3745150.00	1.74551	
	380500.00	3745150.00	1.81550
380525.00	3745150.00	1.88795	
	380550.00	3745150.00	1.96911
380575.00	3745150.00	2.05264	
	380600.00	3745150.00	2.14185
380625.00	3745150.00	2.23619	
	380650.00	3745150.00	2.33627
380675.00	3745150.00	2.42652	
	380700.00	3745150.00	2.54629
380725.00	3745150.00	2.65339	
	380750.00	3745150.00	2.78067
380775.00	3745150.00	2.92337	
	380800.00	3745150.00	3.05636
380825.00	3745150.00	3.20050	
	380850.00	3745150.00	3.36402
380875.00	3745150.00	3.52979	
	380900.00	3745150.00	3.70130
380925.00	3745150.00	3.87635	

	381600.00	3745150.00	8.37179
381625.00	3745150.00	8.28357	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
381650.00	3745150.00	8.16584	
381675.00	3745150.00	8.03562	
381700.00	3745150.00	7.90095	
381725.00	3745150.00	7.75299	
381750.00	3745150.00	7.59921	
381775.00	3745150.00	7.43981	
381800.00	3745150.00	7.26989	
381825.00	3745150.00	7.08875	
381850.00	3745150.00	6.90242	
381875.00	3745150.00	6.70841	
381900.00	3745150.00	6.51014	
381925.00	3745150.00	6.31147	
381950.00	3745150.00	6.10999	
381975.00	3745150.00	5.90630	
382000.00	3745150.00	5.70259	
382025.00	3745150.00	5.49919	
380425.00	3745175.00	1.65678	
380450.00	3745175.00	1.72282	
380475.00	3745175.00	1.79331	
380500.00	3745175.00	1.86799	
380525.00	3745175.00	1.94514	
380550.00	3745175.00	2.03262	
380575.00	3745175.00	2.12247	
380600.00	3745175.00	2.21886	



	380625.00	3745175.00	2.32129
380650.00	3745175.00	2.43021	
	380675.00	3745175.00	2.52843
380700.00	3745175.00	2.66234	
	380725.00	3745175.00	2.77932
380750.00	3745175.00	2.92016	
	380775.00	3745175.00	3.07970
380800.00	3745175.00	3.23003	
	380825.00	3745175.00	3.39287
380850.00	3745175.00	3.57704	
	380875.00	3745175.00	3.76623
380900.00	3745175.00	3.95963	
	380925.00	3745175.00	4.16866
381600.00	3745175.00	9.39841	
	381625.00	3745175.00	9.27979
381650.00	3745175.00	9.13725	
	381675.00	3745175.00	8.95986
381700.00	3745175.00	8.78020	
	381725.00	3745175.00	8.59017
381750.00	3745175.00	8.39463	
	381775.00	3745175.00	8.19245
381800.00	3745175.00	7.97624	
	381825.00	3745175.00	7.74699
381850.00	3745175.00	7.51231	
	381875.00	3745175.00	7.27172
381900.00	3745175.00	7.03170	
	381925.00	3745175.00	6.78784
381950.00	3745175.00	6.54321	
	381975.00	3745175.00	6.29797
382000.00	3745175.00	6.05572	
	382025.00	3745175.00	5.80478
380425.00	3745200.00	1.69619	
	380450.00	3745200.00	1.76618
380475.00	3745200.00	1.84086	
	380500.00	3745200.00	1.92038
380525.00	3745200.00	2.00242	
	380550.00	3745200.00	2.09637
380575.00	3745200.00	2.19290	
	380600.00	3745200.00	2.29683
380625.00	3745200.00	2.40799	
	380650.00	3745200.00	2.52619
380675.00	3745200.00	2.63536	
	380700.00	3745200.00	2.78214
380725.00	3745200.00	2.91260	
	380750.00	3745200.00	3.06686
380775.00	3745200.00	3.24409	
	380800.00	3745200.00	3.41546
380825.00	3745200.00	3.59723	
	380850.00	3745200.00	3.80557
380875.00	3745200.00	4.02033	
	380900.00	3745200.00	4.24185
380925.00	3745200.00	4.48598	
	381600.00	3745200.00	10.61627
381625.00	3745200.00	10.45465	

	381650.00	3745200.00	10.26523
381675.00	3745200.00	10.03547	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2           , VOL3           , VOL4           , VOL5           ,
                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

      X-COORD (M)  Y-COORD (M)      CONC      X-
COORD (M)  Y-COORD (M)      CONC
- - - - -
- - - - -
      381700.00    3745200.00      9.80096
381725.00    3745200.00      9.55776
      381750.00    3745200.00      9.30720
381775.00    3745200.00      9.04179
      381800.00    3745200.00      8.76193
381825.00    3745200.00      8.47124
      381850.00    3745200.00      8.17869
381875.00    3745200.00      7.88737
      381900.00    3745200.00      7.59005
381925.00    3745200.00      7.29217
      381950.00    3745200.00      6.99567
381975.00    3745200.00      6.70248
      382000.00    3745200.00      6.41344
380425.00    3745225.00      1.73509
      380450.00    3745225.00      1.80888
380475.00    3745225.00      1.88800
      380500.00    3745225.00      1.97237
380525.00    3745225.00      2.05943
      380550.00    3745225.00      2.15985
380575.00    3745225.00      2.26354
      380600.00    3745225.00      2.37562
380625.00    3745225.00      2.49554
      380650.00    3745225.00      2.62359
380675.00    3745225.00      2.74404

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	380700.00	3745225.00	2.90509
380725.00	3745225.00	3.05220	
	380750.00	3745225.00	3.22224
380775.00	3745225.00	3.41685	
	380800.00	3745225.00	3.60686
380825.00	3745225.00	3.81778	
	380850.00	3745225.00	4.05015
380875.00	3745225.00	4.29524	
	380900.00	3745225.00	4.55832
380925.00	3745225.00	4.83484	
	380950.00	3745225.00	5.06865
381600.00	3745225.00	12.07220	
	381625.00	3745225.00	11.84803
381650.00	3745225.00	11.59210	
	381675.00	3745225.00	11.29346
381700.00	3745225.00	10.99470	
	381725.00	3745225.00	10.67284
381750.00	3745225.00	10.33915	
	381775.00	3745225.00	9.99506
381800.00	3745225.00	9.63757	
	381825.00	3745225.00	9.27206
381850.00	3745225.00	8.90624	
	381875.00	3745225.00	8.54196
381900.00	3745225.00	8.17788	
	381925.00	3745225.00	7.81557
381950.00	3745225.00	7.45704	
	381975.00	3745225.00	7.10869
382000.00	3745225.00	6.74789	
	380425.00	3745250.00	1.77302
380450.00	3745250.00	1.85081	
	380475.00	3745250.00	1.93425
380500.00	3745250.00	2.02372	
	380525.00	3745250.00	2.11577
380550.00	3745250.00	2.22317	
	380575.00	3745250.00	2.33394
380600.00	3745250.00	2.45407	
	380625.00	3745250.00	2.58348
380650.00	3745250.00	2.72193	
	380675.00	3745250.00	2.85483
380700.00	3745250.00	3.02627	
	380725.00	3745250.00	3.19895
380750.00	3745250.00	3.38801	
	380775.00	3745250.00	3.59103
380800.00	3745250.00	3.81363	
	380825.00	3745250.00	4.05103
380850.00	3745250.00	4.31079	
	380875.00	3745250.00	4.58926
380900.00	3745250.00	4.89422	
	380925.00	3745250.00	5.21016
380950.00	3745250.00	5.51795	
	381600.00	3745250.00	13.82682
381625.00	3745250.00	13.50643	
	381650.00	3745250.00	13.15829
381675.00	3745250.00	12.76970	

	381700.00	3745250.00	12.37119
381725.00	3745250.00	11.94640	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

```

** CONC OF PM_10      IN
**
MICROGRAMS/M**3

      X-COORD (M)  Y-COORD (M)      CONC      X-
COORD (M)  Y-COORD (M)      CONC
-----
      381750.00   3745250.00      11.50856
381775.00   3745250.00      11.06414
      381800.00   3745250.00      10.60903
381825.00   3745250.00      10.14536
      381850.00   3745250.00       9.68698
381875.00   3745250.00       9.23421
      381900.00   3745250.00       8.78679
381925.00   3745250.00       8.35120
      381950.00   3745250.00       7.92354
381975.00   3745250.00       7.49243
      382000.00   3745250.00       7.10691
380425.00   3745275.00       1.80979
      380450.00   3745275.00       1.89146
380475.00   3745275.00       1.97946
      380500.00   3745275.00       2.07405
380525.00   3745275.00       2.16889
      380550.00   3745275.00       2.28543
380575.00   3745275.00       2.40371
      380600.00   3745275.00       2.53198
380625.00   3745275.00       2.67120
      380650.00   3745275.00       2.82028
380675.00   3745275.00       2.97946
      380700.00   3745275.00       3.15669
380725.00   3745275.00       3.34174

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	380750.00	3745275.00	3.54778
380775.00	3745275.00	3.77434	
	380800.00	3745275.00	4.01814
380825.00	3745275.00	4.28672	
	380850.00	3745275.00	4.58197
380875.00	3745275.00	4.90267	
	380900.00	3745275.00	5.24497
380925.00	3745275.00	5.63272	
	380950.00	3745275.00	6.03454
381600.00	3745275.00	15.95222	
	381625.00	3745275.00	15.51818
381650.00	3745275.00	15.03246	
	381675.00	3745275.00	14.50506
381700.00	3745275.00	13.96747	
	381725.00	3745275.00	13.40409
381750.00	3745275.00	12.83160	
	381775.00	3745275.00	12.25465
381800.00	3745275.00	11.67071	
	381825.00	3745275.00	11.08703
381850.00	3745275.00	10.51351	
	381875.00	3745275.00	9.95271
381900.00	3745275.00	9.40861	
	381925.00	3745275.00	8.88307
381950.00	3745275.00	8.37587	
	381975.00	3745275.00	7.88915
382000.00	3745275.00	7.40843	
	380425.00	3745300.00	1.84460
380450.00	3745300.00	1.93077	
	380475.00	3745300.00	2.02259
380500.00	3745300.00	2.12254	
	380525.00	3745300.00	2.22784
380550.00	3745300.00	2.34294	
	380575.00	3745300.00	2.47221
380600.00	3745300.00	2.60874	
	380625.00	3745300.00	2.75780
380650.00	3745300.00	2.91790	
	380675.00	3745300.00	3.09615
380700.00	3745300.00	3.28974	
	380725.00	3745300.00	3.49950
380750.00	3745300.00	3.73063	
	380775.00	3745300.00	3.97863
380800.00	3745300.00	4.24571	
	380825.00	3745300.00	4.55009
380850.00	3745300.00	4.88148	
	380875.00	3745300.00	5.25245
380900.00	3745300.00	5.65760	
	380925.00	3745300.00	6.10547
380950.00	3745300.00	6.58551	
	381600.00	3745300.00	18.55460
381625.00	3745300.00	17.93947	
	381650.00	3745300.00	17.26271
381675.00	3745300.00	16.54527	
	381700.00	3745300.00	15.81734
381725.00	3745300.00	15.07061	

	381750.00	3745300.00	14.31710
381775.00	3745300.00	13.56554	



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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2           , VOL3           , VOL4           , VOL5           ,
                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	X-
381800.00	3745300.00	12.81467	
381825.00	3745300.00	12.08189	
381850.00	3745300.00	11.36794	
381875.00	3745300.00	10.68137	
381900.00	3745300.00	10.02284	
381925.00	3745300.00	9.39678	
380425.00	3745325.00	1.87539	
380450.00	3745325.00	1.96724	
380475.00	3745325.00	2.06241	
380500.00	3745325.00	2.16895	
380525.00	3745325.00	2.28165	
380550.00	3745325.00	2.40222	
380575.00	3745325.00	2.53245	
380600.00	3745325.00	2.68366	
380625.00	3745325.00	2.84243	
380650.00	3745325.00	3.01452	
380675.00	3745325.00	3.20595	
380700.00	3745325.00	3.41521	
380725.00	3745325.00	3.64499	
380750.00	3745325.00	3.89906	
380775.00	3745325.00	4.17790	
380800.00	3745325.00	4.48359	
380825.00	3745325.00	4.82598	
380850.00	3745325.00	5.18788	

	380875.00	3745325.00	5.60955
380900.00	3745325.00	6.08100	
	380925.00	3745325.00	6.61426
380950.00	3745325.00	7.16274	
	381600.00	3745325.00	21.76262
381625.00	3745325.00	20.87945	
	381650.00	3745325.00	19.93456
381675.00	3745325.00	18.94960	
	381700.00	3745325.00	17.96030
381725.00	3745325.00	16.96137	
	381750.00	3745325.00	15.96600
381775.00	3745325.00	14.98957	
	381800.00	3745325.00	14.03418
381825.00	3745325.00	13.10949	
	381850.00	3745325.00	12.22838
381875.00	3745325.00	11.39509	
	381900.00	3745325.00	10.60851
381925.00	3745325.00	9.87267	
	380425.00	3745350.00	1.90219
380450.00	3745350.00	1.99875	
	380475.00	3745350.00	2.09812
380500.00	3745350.00	2.21148	
	380525.00	3745350.00	2.33130
380550.00	3745350.00	2.46058	
	380575.00	3745350.00	2.60023
380600.00	3745350.00	2.74603	
	380625.00	3745350.00	2.92363
380650.00	3745350.00	3.10836	
	380675.00	3745350.00	3.31318
380700.00	3745350.00	3.53839	
	380725.00	3745350.00	3.78798
380750.00	3745350.00	4.06382	
	380775.00	3745350.00	4.37121
380800.00	3745350.00	4.69868	
	380825.00	3745350.00	5.09319
380850.00	3745350.00	5.49415	
	380875.00	3745350.00	5.95998
380900.00	3745350.00	6.49855	
	380925.00	3745350.00	7.13871
380950.00	3745350.00	7.79438	
	381600.00	3745350.00	25.76526
381625.00	3745350.00	24.48428	
	381650.00	3745350.00	23.15032
381675.00	3745350.00	21.78208	
	381700.00	3745350.00	20.42790
381725.00	3745350.00	19.08404	
	381750.00	3745350.00	17.76737
381775.00	3745350.00	16.50172	
	381800.00	3745350.00	15.28952
381825.00	3745350.00	14.13422	
	381850.00	3745350.00	13.05968
381875.00	3745350.00	12.06243	
	381900.00	3745350.00	11.13802
381925.00	3745350.00	10.26940	

	380425.00	3745375.00	1.92652
380450.00	3745375.00	2.02541	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	X-
380475.00	3745375.00	2.13179	
380500.00	3745375.00	2.25182	
380525.00	3745375.00	2.37763	
380550.00	3745375.00	2.51278	
380575.00	3745375.00	2.66047	
380600.00	3745375.00	2.82281	
380625.00	3745375.00	2.98845	
380650.00	3745375.00	3.19759	
380675.00	3745375.00	3.41524	
380700.00	3745375.00	3.65652	
380725.00	3745375.00	3.92598	
380750.00	3745375.00	4.22529	
380775.00	3745375.00	4.56065	
380800.00	3745375.00	4.93336	
380825.00	3745375.00	5.36017	
380850.00	3745375.00	5.82554	
380875.00	3745375.00	6.34692	
380900.00	3745375.00	6.97547	
380925.00	3745375.00	7.69786	
380950.00	3745375.00	8.49667	
381600.00	3745375.00	30.81101	
381625.00	3745375.00	28.93747	
381650.00	3745375.00	27.02302	
381675.00	3745375.00	25.10900	

	381700.00	3745375.00	23.23448
381725.00	3745375.00	21.41912	
	381750.00	3745375.00	19.68214
381775.00	3745375.00	18.05211	
	381800.00	3745375.00	16.52713
381825.00	3745375.00	15.11119	
	381850.00	3745375.00	13.82268
381875.00	3745375.00	12.64327	
	381900.00	3745375.00	11.57675
381925.00	3745375.00	10.58323	
	380425.00	3745400.00	1.95210
380450.00	3745400.00	2.05237	
	380475.00	3745400.00	2.16372
380500.00	3745400.00	2.28896	
	380525.00	3745400.00	2.41933
380550.00	3745400.00	2.56065	
	380575.00	3745400.00	2.71539
380600.00	3745400.00	2.88571	
	380625.00	3745400.00	3.07314
380650.00	3745400.00	3.27555	
	380675.00	3745400.00	3.50929
380700.00	3745400.00	3.76815	
	380725.00	3745400.00	4.05630
380750.00	3745400.00	4.37947	
	380775.00	3745400.00	4.74354
380800.00	3745400.00	5.15467	
	380825.00	3745400.00	5.61906
380850.00	3745400.00	6.14674	
	380875.00	3745400.00	6.75377
380900.00	3745400.00	7.45675	
	380925.00	3745400.00	8.27313
380950.00	3745400.00	9.21710	
	381600.00	3745400.00	37.28757
381625.00	3745400.00	34.50213	
	381650.00	3745400.00	31.70606
381675.00	3745400.00	28.96750	
	381700.00	3745400.00	26.36834
381725.00	3745400.00	23.91530	
	381750.00	3745400.00	21.64566
381775.00	3745400.00	19.56715	
	381800.00	3745400.00	17.68238
381825.00	3745400.00	15.98046	
	381850.00	3745400.00	14.47096
381875.00	3745400.00	13.11703	
	381900.00	3745400.00	11.91030
381925.00	3745400.00	10.83065	
	380425.00	3745425.00	1.97343
380450.00	3745425.00	2.07538	
	380475.00	3745425.00	2.18911
380500.00	3745425.00	2.31711	
	380525.00	3745425.00	2.44968
380550.00	3745425.00	2.60082	
	380575.00	3745425.00	2.76042
380600.00	3745425.00	2.93863	

	380625.00	3745425.00	3.13857
380650.00	3745425.00	3.35566	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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```

*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

```

** CONC OF PM_10      IN
**
MICROGRAMS/M**3

      X-COORD (M)  Y-COORD (M)      CONC      X-
COORD (M)  Y-COORD (M)      CONC
- - - - -
- - - - -
      380675.00    3745425.00      3.59793
380700.00    3745425.00      3.86707
      380725.00    3745425.00      4.17867
380750.00    3745425.00      4.52348
      380775.00    3745425.00      4.91441
380800.00    3745425.00      5.35451
      380825.00    3745425.00      5.86080
380850.00    3745425.00      6.43295
      380875.00    3745425.00      7.10397
380900.00    3745425.00      7.91977
      380925.00    3745425.00      8.85767
380950.00    3745425.00      9.95566
      381600.00    3745425.00     45.76586
381625.00    3745425.00     41.50015
      381650.00    3745425.00     37.30188
381675.00    3745425.00     33.34860
      381700.00    3745425.00     29.73441
381725.00    3745425.00     26.45386
      381750.00    3745425.00     23.53116
381775.00    3745425.00     20.94575
      381800.00    3745425.00     18.67124
381825.00    3745425.00     16.67334
      381850.00    3745425.00     14.94457
381875.00    3745425.00     13.42472

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	381900.00	3745425.00	12.08837
381925.00	3745425.00	10.92815	
	380425.00	3745450.00	1.99280
380450.00	3745450.00	2.09769	
	380475.00	3745450.00	2.21278
380500.00	3745450.00	2.34168	
	380525.00	3745450.00	2.47843
380550.00	3745450.00	2.63069	
	380575.00	3745450.00	2.80411
380600.00	3745450.00	2.98866	
	380625.00	3745450.00	3.19417
380650.00	3745450.00	3.42159	
	380675.00	3745450.00	3.67684
380700.00	3745450.00	3.95387	
	380725.00	3745450.00	4.28777
380750.00	3745450.00	4.65337	
	380775.00	3745450.00	5.07019
380800.00	3745450.00	5.54332	
	380825.00	3745450.00	6.08374
380850.00	3745450.00	6.72399	
	380875.00	3745450.00	7.47981
380900.00	3745450.00	8.37701	
	380925.00	3745450.00	9.43240
380950.00	3745450.00	10.69548	
	381600.00	3745450.00	57.13249
381625.00	3745450.00	50.24583	
	381650.00	3745450.00	43.81207
381675.00	3745450.00	38.07915	
	381700.00	3745450.00	33.10845
381725.00	3745450.00	28.82250	
	381750.00	3745450.00	25.16304
381775.00	3745450.00	22.04379	
	381800.00	3745450.00	19.38666
381825.00	3745450.00	17.12056	
	381850.00	3745450.00	15.19968
381875.00	3745450.00	13.54563	
	380425.00	3745475.00	2.00727
380450.00	3745475.00	2.11401	
	380475.00	3745475.00	2.23119
380500.00	3745475.00	2.36230	
	380525.00	3745475.00	2.50434
380550.00	3745475.00	2.65578	
	380575.00	3745475.00	2.83274
380600.00	3745475.00	3.02987	
	380625.00	3745475.00	3.24023
380650.00	3745475.00	3.47686	
	380675.00	3745475.00	3.74244
381600.00	3745475.00	72.46847	
	381625.00	3745475.00	60.83100
381650.00	3745475.00	50.90798	
	381675.00	3745475.00	42.73290
381700.00	3745475.00	36.12739	
	381725.00	3745475.00	30.73905
381750.00	3745475.00	26.34042	



	381775.00	3745475.00	22.72979
381800.00	3745475.00	19.74518	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

```

** CONC OF PM_10      IN
**
MICROGRAMS/M**3

      X-COORD (M)  Y-COORD (M)      CONC      X-
COORD (M)  Y-COORD (M)      CONC
-----
      381825.00   3745475.00      17.27196
381850.00   3745475.00      15.20934
      381875.00   3745475.00      13.46658
380425.00   3745500.00       2.01756
      380450.00   3745500.00       2.12649
380475.00   3745500.00       2.24514
      380500.00   3745500.00       2.37827
380525.00   3745500.00       2.52529
      380550.00   3745500.00       2.67847
380575.00   3745500.00       2.86397
      380600.00   3745500.00       3.06044
380625.00   3745500.00       3.27582
      380650.00   3745500.00       3.51983
380675.00   3745500.00       3.79351
      381600.00   3745500.00      92.35983
381625.00   3745500.00      72.43750
      381650.00   3745500.00      57.61443
381675.00   3745500.00      46.57262
      381700.00   3745500.00      38.28789
381725.00   3745500.00      31.89199
      381750.00   3745500.00      26.88365
381775.00   3745500.00      22.90656
      381800.00   3745500.00      19.70782
381825.00   3745500.00      17.10987

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	381850.00	3745500.00	14.97027
381875.00	3745500.00	13.19399	
	380425.00	3745525.00	2.02612
380450.00	3745525.00	2.13423	
	380475.00	3745525.00	2.25311
380500.00	3745525.00	2.38990	
	380525.00	3745525.00	2.53940
380550.00	3745525.00	2.69521	
	380575.00	3745525.00	2.88282
380600.00	3745525.00	3.08057	
	380625.00	3745525.00	3.29949
380650.00	3745525.00	3.54854	
	380675.00	3745525.00	3.82758
381600.00	3745525.00	112.70154	
	381625.00	3745525.00	82.00997
381650.00	3745525.00	62.32159	
	381675.00	3745525.00	48.78023
381700.00	3745525.00	39.16154	
	381725.00	3745525.00	32.07416
381750.00	3745525.00	26.70212	
	381775.00	3745525.00	22.54383
381800.00	3745525.00	19.26671	
	381825.00	3745525.00	16.64037
381850.00	3745525.00	14.50715	
	381875.00	3745525.00	12.73284
380425.00	3745550.00	2.02898	
	380450.00	3745550.00	2.13660
380475.00	3745550.00	2.25553	
	380500.00	3745550.00	2.39640
380525.00	3745550.00	2.54595	
	380550.00	3745550.00	2.70465
380575.00	3745550.00	2.88984	
	380600.00	3745550.00	3.08948
380625.00	3745550.00	3.31012	
	380650.00	3745550.00	3.56202
380675.00	3745550.00	3.84428	
	381600.00	3745550.00	124.59826
381625.00	3745550.00	86.49073	
	381650.00	3745550.00	63.72578
381675.00	3745550.00	48.79858	
	381700.00	3745550.00	38.56266
381725.00	3745550.00	31.23735	
	381750.00	3745550.00	25.81566
381775.00	3745550.00	21.68284	
	381800.00	3745550.00	18.47165
381825.00	3745550.00	15.92207	
	381850.00	3745550.00	13.86771
380425.00	3745575.00	2.02866	
	380450.00	3745575.00	2.13915
380475.00	3745575.00	2.26059	
	380500.00	3745575.00	2.39780
380525.00	3745575.00	2.54377	
	380550.00	3745575.00	2.70367
380575.00	3745575.00	2.88676	

	380600.00	3745575.00	3.08617
380625.00	3745575.00	3.30763	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	X-
380650.00	3745575.00	3.56016	
380675.00	3745575.00	3.84342	
381600.00	3745575.00	128.39696	
381625.00	3745575.00	85.71729	
381650.00	3745575.00	61.78079	
381675.00	3745575.00	46.71274	
381700.00	3745575.00	36.64690	
381725.00	3745575.00	29.53594	
381750.00	3745575.00	24.36536	
381775.00	3745575.00	20.44971	
381800.00	3745575.00	17.42843	
381825.00	3745575.00	15.03636	
381850.00	3745575.00	13.11432	
380425.00	3745600.00	2.01968	
380450.00	3745600.00	2.13239	
380475.00	3745600.00	2.25320	
380500.00	3745600.00	2.38879	
380525.00	3745600.00	2.53376	
380550.00	3745600.00	2.69502	
380575.00	3745600.00	2.87374	
380600.00	3745600.00	3.07090	
380625.00	3745600.00	3.29187	
380650.00	3745600.00	3.54306	
380675.00	3745600.00	3.82450	

	381600.00	3745600.00	124.75820
381625.00	3745600.00	80.93955	
	381650.00	3745600.00	57.36043
381675.00	3745600.00	43.19501	
	381700.00	3745600.00	33.84329
381725.00	3745600.00	27.31971	
	381750.00	3745600.00	22.58634
381775.00	3745600.00	19.01758	
	381800.00	3745600.00	16.25758
381825.00	3745600.00	14.07189	
	381850.00	3745600.00	12.28942
380425.00	3745625.00	2.00816	
	380450.00	3745625.00	2.12219
380475.00	3745625.00	2.24098	
	380500.00	3745625.00	2.37119
380525.00	3745625.00	2.51575	
	380550.00	3745625.00	2.67433
380575.00	3745625.00	2.85003	
	380600.00	3745625.00	3.04457
380625.00	3745625.00	3.26347	
	380650.00	3745625.00	3.51064
380675.00	3745625.00	3.78793	
	381600.00	3745625.00	114.29622
381625.00	3745625.00	73.27350	
	381650.00	3745625.00	51.80864
381675.00	3745625.00	38.99631	
	381700.00	3745625.00	30.69932
381725.00	3745625.00	24.93321	
	381750.00	3745625.00	20.72941
381775.00	3745625.00	17.54698	
	381800.00	3745625.00	15.07328
381825.00	3745625.00	13.10665	
	381850.00	3745625.00	11.45744
380425.00	3745650.00	1.99548	
	380450.00	3745650.00	2.10195
380475.00	3745650.00	2.21895	
	380500.00	3745650.00	2.34735
380525.00	3745650.00	2.49031	
	380550.00	3745650.00	2.64579
380575.00	3745650.00	2.81929	
	380600.00	3745650.00	3.01028
380625.00	3745650.00	3.22323	
	380650.00	3745650.00	3.46477
380675.00	3745650.00	3.73596	
	381600.00	3745650.00	98.22180
381625.00	3745650.00	61.77909	
	381650.00	3745650.00	44.77998
381675.00	3745650.00	34.33544	
	381700.00	3745650.00	27.35855
381725.00	3745650.00	22.44409	
	381750.00	3745650.00	18.81321
381775.00	3745650.00	16.04179	
	381800.00	3745650.00	13.87345
381825.00	3745650.00	12.13992	

	381850.00	3745650.00	10.75449
380425.00	3745675.00	1.97347	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE PERIOD ( 43848 HRS) AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP: ALL      ***
                INCLUDING SOURCE(S):      VOL1      ,
VOL2            , VOL3            , VOL4            , VOL5            ,
                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

      X-COORD (M)  Y-COORD (M)      CONC      X-
COORD (M)  Y-COORD (M)      CONC
-----
      380450.00   3745675.00      2.07843
380475.00   3745675.00      2.19303
      380500.00   3745675.00      2.31870
380525.00   3745675.00      2.45838
      380550.00   3745675.00      2.60831
380575.00   3745675.00      2.77962
      380600.00   3745675.00      2.96590
380625.00   3745675.00      3.17310
      380650.00   3745675.00      3.40825
380675.00   3745675.00      3.67125
      380425.00   3745700.00      1.94899
380450.00   3745700.00      2.05183
      380475.00   3745700.00      2.16371
380500.00   3745700.00      2.28565
      380525.00   3745700.00      2.42047
380550.00   3745700.00      2.56461
      380575.00   3745700.00      2.73262
380600.00   3745700.00      2.91388
      380625.00   3745700.00      3.11422
380650.00   3745700.00      3.34081
      380675.00   3745700.00      3.59437
380425.00   3745725.00      1.91704
      380450.00   3745725.00      2.01963
380475.00   3745725.00      2.12961

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	380500.00	3745725.00	2.24820
380525.00	3745725.00	2.37707	
	380550.00	3745725.00	2.51378
380575.00	3745725.00	2.67915	
	380600.00	3745725.00	2.85527
380625.00	3745725.00	3.04844	
	380650.00	3745725.00	3.26584
380675.00	3745725.00	3.50897	
	380425.00	3745750.00	1.87996
380450.00	3745750.00	1.98087	
	380475.00	3745750.00	2.09205
380500.00	3745750.00	2.20713	
	380525.00	3745750.00	2.32928
380550.00	3745750.00	2.45866	
	380575.00	3745750.00	2.61408
380600.00	3745750.00	2.79134	
	380625.00	3745750.00	2.97741
380650.00	3745750.00	3.18516	
	380675.00	3745750.00	3.41696
380500.00	3745775.00	2.16308	
	380525.00	3745775.00	2.28112
380550.00	3745775.00	2.41027	
	380575.00	3745775.00	2.55771
380600.00	3745775.00	2.72331	
	380625.00	3745775.00	2.90259
380650.00	3745775.00	3.10033	
	380675.00	3745775.00	3.32097
380500.00	3745800.00	2.11699	
	380525.00	3745800.00	2.22823
380550.00	3745800.00	2.35225	
	380575.00	3745800.00	2.48678
380600.00	3745800.00	2.64945	
	380625.00	3745800.00	2.82502
380650.00	3745800.00	3.01216	
	380675.00	3745800.00	3.22277
380500.00	3745825.00	2.06910	
	380525.00	3745825.00	2.16911
380550.00	3745825.00	2.28927	
	380575.00	3745825.00	2.42246
380600.00	3745825.00	2.57370	
	380625.00	3745825.00	2.74484
380650.00	3745825.00	2.92014	
	380675.00	3745825.00	3.12339
380500.00	3745850.00	2.02017	
	380525.00	3745850.00	2.12528
380550.00	3745850.00	2.24241	
	380575.00	3745850.00	2.37018
380600.00	3745850.00	2.50967	
	380625.00	3745850.00	2.66301
380650.00	3745850.00	2.82915	
	380675.00	3745850.00	3.01265

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*** AERMOD - VERSION 18081 *** *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 *** ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380350.00	3744600.00	304.28544 (15021808)	
380450.00	3744600.00	349.20914 (15021808)	
380550.00	3744600.00	377.71537 (15021808)	
380650.00	3744600.00	380.51244 (15021808)	
380750.00	3744600.00	407.02354 (13011408)	
380850.00	3744600.00	422.06894 (13011408)	
380950.00	3744600.00	392.64820 (13011408)	
381050.00	3744600.00	325.04944 (13011408)	
381150.00	3744600.00	379.08130 (15012608)	
381250.00	3744600.00	415.25331 (15012608)	
381350.00	3744600.00	447.70059 (16020308)	
381450.00	3744600.00	466.43574 (16020308)	
381550.00	3744600.00	435.81771 (13121808)	
381650.00	3744600.00	453.90254 (13121808)	
381750.00	3744600.00	413.44723 (13121808)	
381850.00	3744600.00	426.43531 (16121908)	
381950.00	3744600.00	422.35132 (16121908)	
382050.00	3744600.00	379.67336 (14120808)	
382150.00	3744600.00	376.90289 (14120808)	
382250.00	3744600.00	351.65296 (16122108)	
382350.00	3744600.00	334.23660 (15121108)	
380350.00	3744700.00	288.62111 (15021808)	
380450.00	3744700.00	352.18580 (15021808)	
380550.00	3744700.00	407.59959 (15021808)	

	380650.00	3744700.00	439.19941	(15021808)
380750.00	3744700.00	435.20524	(13011408)	
	380850.00	3744700.00	480.99415	(13011408)
380950.00	3744700.00	474.03385	(13011408)	
	381050.00	3744700.00	411.84076	(13011408)
381150.00	3744700.00	421.88185	(15012608)	
	381250.00	3744700.00	473.89545	(15012608)
381350.00	3744700.00	513.17314	(16020308)	
	381450.00	3744700.00	531.51307	(16020308)
381550.00	3744700.00	510.13471	(13121808)	
	381650.00	3744700.00	512.14758	(13121808)
381750.00	3744700.00	465.56256	(16121908)	
	381850.00	3744700.00	493.64429	(16121908)
381950.00	3744700.00	458.84458	(16121908)	
	382050.00	3744700.00	438.61689	(14120808)
382150.00	3744700.00	409.31500	(16122108)	
	382250.00	3744700.00	388.03883	(15121108)
382350.00	3744700.00	358.85675	(15121108)	
	380350.00	3744800.00	318.59035	(14021808)
380450.00	3744800.00	334.91309	(15021808)	
	380550.00	3744800.00	416.61259	(15021808)
380650.00	3744800.00	484.12140	(15021808)	
	380750.00	3744800.00	516.28017	(15021808)
380850.00	3744800.00	534.95533	(13011408)	
	380950.00	3744800.00	565.63913	(13011408)
381050.00	3744800.00	521.17003	(13011408)	
	381150.00	3744800.00	472.71678	(15012608)
381250.00	3744800.00	547.10103	(15012608)	
	381350.00	3744800.00	596.43441	(16020308)
381450.00	3744800.00	612.97999	(16020308)	
	381550.00	3744800.00	600.92355	(13121808)
381650.00	3744800.00	576.94466	(13121808)	
	381750.00	3744800.00	565.97906	(16121908)
381850.00	3744800.00	558.60730	(16121908)	
	381950.00	3744800.00	515.86647	(14120808)
382050.00	3744800.00	485.27360	(14120808)	
	382150.00	3744800.00	456.36855	(15121108)
382250.00	3744800.00	417.86962	(15121108)	
	382350.00	3744800.00	386.04703	(16020908)
380350.00	3744900.00	367.18615	(14021808)	
	380450.00	3744900.00	383.78277	(14021808)
380550.00	3744900.00	396.18792	(15021808)	
	380650.00	3744900.00	502.47520	(15021808)
380750.00	3744900.00	586.74912	(15021808)	
	380850.00	3744900.00	616.49080	(15021808)
380950.00	3744900.00	661.14729	(13011408)	
	381650.00	3744900.00	647.03357	(13121808)
381750.00	3744900.00	672.07353	(16121908)	
	381850.00	3744900.00	610.15380	(14120808)
381950.00	3744900.00	586.94702	(14120808)	
	382050.00	3744900.00	544.60551	(15121108)
382150.00	3744900.00	495.80994	(15121108)	
	382250.00	3744900.00	456.00809	(16020908)
382350.00	3744900.00	406.36328	(16020908)	

	380350.00	3745000.00	388.13900	(14021808)
380450.00	3745000.00	437.03790	(14021808)	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

```

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      VOL1
VOL2      , VOL3      , VOL4      , VOL5      ,
      VOL6      , VOL7      , VOL8      , VOL9      ,
VOL10     , VOL11     , VOL12     , VOL13     ,
      VOL14     , VOL15     , VOL16     , VOL17     ,
VOL18     , VOL19     , VOL20     , VOL21     ,
      VOL22     , VOL23     , VOL24     , VOL25     ,
VOL26     , VOL27     , VOL28     , . . . ,

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\*\*\* 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)	
380550.00	3745000.00	471.73742 (14021808)	
380650.00	3745000.00	480.58230 (15021808)	
380750.00	3745000.00	623.31369 (15021808)	
380850.00	3745000.00	730.11133 (15021808)	
380950.00	3745000.00	748.13979 (13011408)	
381650.00	3745000.00	803.42915 (16121908)	
381750.00	3745000.00	771.54172 (16121908)	
381850.00	3745000.00	728.18496 (14120808)	
381950.00	3745000.00	666.38124 (15121108)	
382050.00	3745000.00	596.13817 (15121108)	
382150.00	3745000.00	546.86742 (16020908)	
382250.00	3745000.00	489.72783 (16012708)	
382350.00	3745000.00	444.88103 (16012708)	
380350.00	3745100.00	414.45868 (14121608)	
380450.00	3745100.00	447.17489 (14021808)	
380550.00	3745100.00	526.60027 (14021808)	
380650.00	3745100.00	592.30901 (14021808)	
380750.00	3745100.00	623.11661 (14021808)	
380850.00	3745100.00	801.67695 (15021808)	
381650.00	3745100.00	994.71616 (16121908)	
381750.00	3745100.00	916.07945 (14120808)	
381850.00	3745100.00	838.58669 (15121108)	
381950.00	3745100.00	739.06387 (16020908)	
382050.00	3745100.00	666.28012 (16020908)	

	380350.00	3745200.00	481.85296	(14121608)
380450.00	3745200.00	531.01028	(14121608)	
	380550.00	3745200.00	573.26071	(14121608)
380650.00	3745200.00	640.20352	(14021808)	
	380750.00	3745200.00	765.13882	(14021808)
380850.00	3745200.00	844.90012	(14021808)	
	381650.00	3745200.00	1227.73330	(16121908)
381750.00	3745200.00	1121.30235	(15121108)	
	381850.00	3745200.00	976.31000	(16020908)
381950.00	3745200.00	845.44534	(16012708)	
	380350.00	3745300.00	495.33404	(12112608)
380450.00	3745300.00	572.53983	(14121608)	
	380550.00	3745300.00	662.12904	(14121608)
380650.00	3745300.00	767.92719	(14121608)	
	380750.00	3745300.00	870.71119	(14121608)
380850.00	3745300.00	1026.87948	(14021808)	
	380950.00	3745300.00	1222.43941	(14021808)
381650.00	3745300.00	1614.20593	(16122108)	
	381750.00	3745300.00	1398.18241	(16020908)
381850.00	3745300.00	1149.89918	(16012708)	
	380350.00	3745400.00	534.62802	(14013008)
380450.00	3745400.00	612.44375	(14013008)	
	380550.00	3745400.00	708.92868	(12112608)
380650.00	3745400.00	824.67754	(12112608)	
	380750.00	3745400.00	1015.99326	(14121608)
380850.00	3745400.00	1286.43529	(14121608)	
	380950.00	3745400.00	1555.66089	(14121608)
381650.00	3745400.00	2220.36705	(16020908)	
	381750.00	3745400.00	1705.59416	(16012708)
381850.00	3745400.00	1231.30666	(12122516)	
	380350.00	3745500.00	531.61995	(13021808)
380450.00	3745500.00	622.07848	(13021808)	
	380550.00	3745500.00	740.01117	(13021808)
380650.00	3745500.00	893.39818	(13021808)	
	381650.00	3745500.00	3921.61096	(12122516)
381750.00	3745500.00	1988.10581	(16120916)	
	381850.00	3745500.00	1479.14517	(14120408)
380350.00	3745600.00	542.13504	(15022008)	
	380450.00	3745600.00	631.18819	(15022008)
380550.00	3745600.00	747.26075	(15022008)	
	380650.00	3745600.00	899.26613	(15022008)
381650.00	3745600.00	3351.55205	(12122608)	
	381750.00	3745600.00	2165.06013	(12122608)
381850.00	3745600.00	1460.99970	(12122608)	
	380350.00	3745700.00	526.03714	(15022008)
380450.00	3745700.00	599.91451	(15022008)	
	380550.00	3745700.00	695.66746	(15022008)
380650.00	3745700.00	809.10296	(15022008)	
	380550.00	3745800.00	572.43409	(12121208)
380650.00	3745800.00	658.64799	(16012008)	
	380425.00	3744850.00	349.41419	(14021808)
380450.00	3744850.00	348.28483	(14021808)	
	380475.00	3744850.00	346.54303	(14021808)
380500.00	3744850.00	361.12478	(15021808)	

380525.00	3744850.00	387.25390	(15021808)
380550.00	3744850.00	410.48116	(15021808)

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
 \*\*\* 10/09/19  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE  
 CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): VOL1 ,  
 VOL2 , VOL3 , VOL4 , VOL5 ,  
 VOL6 , VOL7 , VOL8 , VOL9 ,  
 VOL10 , VOL11 , VOL12 , VOL13 ,  
 VOL14 , VOL15 , VOL16 , VOL17 ,  
 VOL18 , VOL19 , VOL20 , VOL21 ,  
 VOL22 , VOL23 , VOL24 , VOL25 ,  
 VOL26 , VOL27 , VOL28 , . . . ,

\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380575.00	3744850.00	433.68189 (15021808)	
380600.00	3744850.00	456.83841 (15021808)	
380625.00	3744850.00	478.14953 (15021808)	
380650.00	3744850.00	497.61369 (15021808)	
380675.00	3744850.00	516.06273 (15021808)	
380700.00	3744850.00	531.65523 (15021808)	
380725.00	3744850.00	544.61042 (15021808)	
380750.00	3744850.00	554.41240 (15021808)	
380775.00	3744850.00	560.70841 (15021808)	
380800.00	3744850.00	563.14164 (15021808)	
380825.00	3744850.00	561.73758 (15021808)	
380850.00	3744850.00	556.87712 (13011408)	
380875.00	3744850.00	578.03801 (13011408)	
380925.00	3744850.00	606.76307 (13011408)	
380950.00	3744850.00	613.56717 (13011408)	
380975.00	3744850.00	615.18105 (13011408)	
381625.00	3744850.00	631.42162 (13121808)	
381650.00	3744850.00	611.69210 (13121808)	
381675.00	3744850.00	588.15538 (16121908)	
381700.00	3744850.00	601.35187 (16121908)	
381725.00	3744850.00	611.19248 (16121908)	
381750.00	3744850.00	619.62028 (16121908)	
381775.00	3744850.00	618.20457 (16121908)	
381800.00	3744850.00	612.05114 (16121908)	



	381825.00	3744850.00	601.50502	(16121908)
381850.00	3744850.00	584.17611	(16121908)	
	381875.00	3744850.00	564.79229	(16121908)
381900.00	3744850.00	560.38062	(14120808)	
	381925.00	3744850.00	558.76767	(14120808)
381950.00	3744850.00	552.78317	(14120808)	
	381975.00	3744850.00	542.68008	(14120808)
382000.00	3744850.00	530.94973	(14120808)	
	382025.00	3744850.00	519.06661	(16122108)
380425.00	3744875.00	365.92715	(14021808)	
	380450.00	3744875.00	366.45471	(14021808)
380475.00	3744875.00	366.34100	(14021808)	
	380500.00	3744875.00	363.11366	(14021808)
380525.00	3744875.00	379.51044	(15021808)	
	380550.00	3744875.00	404.40808	(15021808)
380575.00	3744875.00	429.66498	(15021808)	
	380600.00	3744875.00	455.11602	(15021808)
380625.00	3744875.00	478.98096	(15021808)	
	380650.00	3744875.00	501.23596	(15021808)
380675.00	3744875.00	522.89402	(15021808)	
	380700.00	3744875.00	541.76979	(15021808)
380725.00	3744875.00	558.11011	(15021808)	
	380750.00	3744875.00	571.35114	(15021808)
380775.00	3744875.00	581.15979	(15021808)	
	380800.00	3744875.00	587.13935	(15021808)
380825.00	3744875.00	589.23098	(15021808)	
	380850.00	3744875.00	586.05852	(15021808)
380875.00	3744875.00	590.56471	(13011408)	
	380925.00	3744875.00	627.47315	(13011408)
380950.00	3744875.00	637.63566	(13011408)	
	380975.00	3744875.00	642.41020	(13011408)
381625.00	3744875.00	652.20285	(13121808)	
	381650.00	3744875.00	629.46210	(13121808)
381675.00	3744875.00	624.07649	(16121908)	
	381700.00	3744875.00	636.07520	(16121908)
381725.00	3744875.00	641.33194	(16121908)	
	381750.00	3744875.00	641.66842	(16121908)
381775.00	3744875.00	640.24574	(16121908)	
	381800.00	3744875.00	631.79946	(16121908)
381825.00	3744875.00	617.41697	(16121908)	
	381850.00	3744875.00	596.05131	(16121908)
381875.00	3744875.00	585.85494	(14120808)	
	381900.00	3744875.00	584.77420	(14120808)
381925.00	3744875.00	580.57339	(14120808)	
	381950.00	3744875.00	570.88198	(14120808)
381975.00	3744875.00	556.48506	(14120808)	
	382000.00	3744875.00	544.19271	(16122108)
382025.00	3744875.00	536.83473	(16122108)	
	380425.00	3744900.00	381.54675	(14021808)
380450.00	3744900.00	383.78277	(14021808)	
	380475.00	3744900.00	385.52589	(14021808)
380500.00	3744900.00	384.17432	(14021808)	
	380525.00	3744900.00	384.29595	(14021808)
380550.00	3744900.00	396.18792	(15021808)	

	380575.00	3744900.00	423.14233	(15021808)
380600.00	3744900.00	450.79966	(15021808)	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):  VOL1
VOL2            , VOL3            , VOL4            , VOL5            ,
                                VOL6            , VOL7            , VOL8            , VOL9            ,
VOL10           , VOL11           , VOL12           , VOL13           ,
                                VOL14           , VOL15           , VOL16           , VOL17           ,
VOL18           , VOL19           , VOL20           , VOL21           ,
                                VOL22           , VOL23           , VOL24           , VOL25           ,
VOL26           , VOL27           , VOL28           , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380625.00	3744900.00	477.37158 (15021808)	
380650.00	3744900.00	502.47520 (15021808)	
380675.00	3744900.00	527.40925 (15021808)	
380700.00	3744900.00	549.71269 (15021808)	
380725.00	3744900.00	569.72933 (15021808)	
380750.00	3744900.00	586.74912 (15021808)	
380775.00	3744900.00	600.31554 (15021808)	
380800.00	3744900.00	610.20034 (15021808)	
380825.00	3744900.00	616.17664 (15021808)	
380850.00	3744900.00	616.49080 (15021808)	
380875.00	3744900.00	612.30453 (15021808)	
380925.00	3744900.00	647.18819 (13011408)	
380950.00	3744900.00	661.14729 (13011408)	
380975.00	3744900.00	669.71622 (13011408)	
381625.00	3744900.00	674.62110 (13121808)	
381650.00	3744900.00	647.03357 (13121808)	
381675.00	3744900.00	661.14404 (16121908)	
381700.00	3744900.00	670.90740 (16121908)	
381725.00	3744900.00	675.33350 (16121908)	
381750.00	3744900.00	672.07353 (16121908)	
381775.00	3744900.00	662.88843 (16121908)	
381800.00	3744900.00	649.51879 (16121908)	
381825.00	3744900.00	630.50110 (16121908)	
381850.00	3744900.00	610.15380 (14120808)	

	381875.00	3744900.00	611.79207	(14120808)
381900.00	3744900.00	608.32661	(14120808)	
	381925.00	3744900.00	600.58252	(14120808)
381950.00	3744900.00	586.94702	(14120808)	
	381975.00	3744900.00	568.88447	(16122108)
382000.00	3744900.00	562.53042	(16122108)	
	382025.00	3744900.00	551.00098	(16122108)
380425.00	3744925.00	395.68912	(14021808)	
	380450.00	3744925.00	399.89665	(14021808)
380475.00	3744925.00	403.64235	(14021808)	
	380500.00	3744925.00	404.52713	(14021808)
380525.00	3744925.00	406.34479	(14021808)	
	380550.00	3744925.00	405.33731	(14021808)
380575.00	3744925.00	414.41586	(15021808)	
	380600.00	3744925.00	443.88033	(15021808)
380625.00	3744925.00	473.27416	(15021808)	
	380650.00	3744925.00	501.06408	(15021808)
380675.00	3744925.00	529.18748	(15021808)	
	380700.00	3744925.00	555.13099	(15021808)
380725.00	3744925.00	578.96772	(15021808)	
	380750.00	3744925.00	600.07137	(15021808)
380775.00	3744925.00	617.83089	(15021808)	
	380800.00	3744925.00	631.92866	(15021808)
380825.00	3744925.00	641.84858	(15021808)	
	380850.00	3744925.00	646.67897	(15021808)
380875.00	3744925.00	646.10458	(15021808)	
	380925.00	3744925.00	665.69863	(13011408)
380950.00	3744925.00	684.60724	(13011408)	
	380975.00	3744925.00	697.45090	(13011408)
381625.00	3744925.00	695.73647	(13121808)	
	381650.00	3744925.00	684.12685	(16121908)
381675.00	3744925.00	698.34353	(16121908)	
	381700.00	3744925.00	705.45519	(16121908)
381725.00	3744925.00	704.57386	(16121908)	
	381750.00	3744925.00	698.23357	(16121908)
381775.00	3744925.00	685.23530	(16121908)	
	381800.00	3744925.00	670.40686	(16121908)
381825.00	3744925.00	646.78562	(16121908)	
	381850.00	3744925.00	642.52959	(14120808)
381875.00	3744925.00	640.08010	(14120808)	
	381900.00	3744925.00	632.38243	(14120808)
381925.00	3744925.00	618.25982	(14120808)	
	381950.00	3744925.00	600.50477	(14120808)
381975.00	3744925.00	588.69638	(16122108)	
	382000.00	3744925.00	577.41645	(16122108)
382025.00	3744925.00	569.70201	(15121108)	
	380425.00	3744950.00	408.01990	(14021808)
380450.00	3744950.00	414.44209	(14021808)	
	380475.00	3744950.00	420.36825	(14021808)
380500.00	3744950.00	423.68339	(14021808)	
	380525.00	3744950.00	427.54606	(14021808)
380550.00	3744950.00	428.79736	(14021808)	
	380575.00	3744950.00	428.32654	(14021808)
380600.00	3744950.00	434.73263	(15021808)	

380625.00	3744950.00	466.56269	(15021808)
380650.00	3744950.00	496.88407	(15021808)

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380675.00	3744950.00	528.07682 (15021808)	
380700.00	3744950.00	557.59402 (15021808)	
380725.00	3744950.00	585.45962 (15021808)	
380750.00	3744950.00	610.78186 (15021808)	
380775.00	3744950.00	632.99285 (15021808)	
380800.00	3744950.00	651.79974 (15021808)	
380825.00	3744950.00	666.45989 (15021808)	
380850.00	3744950.00	676.02456 (15021808)	
380875.00	3744950.00	679.54447 (15021808)	
380950.00	3744950.00	707.18485 (13011408)	
380975.00	3744950.00	724.72731 (13011408)	
381625.00	3744950.00	717.30928 (13121808)	
381650.00	3744950.00	722.57397 (16121908)	
381675.00	3744950.00	734.77504 (16121908)	
381700.00	3744950.00	738.00749 (16121908)	
381725.00	3744950.00	728.92200 (16121908)	
381750.00	3744950.00	724.92881 (16121908)	
381775.00	3744950.00	707.03004 (16121908)	
381800.00	3744950.00	685.14587 (16121908)	
381825.00	3744950.00	672.11878 (14120808)	
381850.00	3744950.00	671.11339 (14120808)	
381875.00	3744950.00	664.17422 (14120808)	
381900.00	3744950.00	651.67837 (14120808)	
381925.00	3744950.00	634.02025 (14120808)	

	381950.00	3744950.00	621.46306	(16122108)
381975.00	3744950.00	606.98657	(16122108)	
	382000.00	3744950.00	600.39677	(15121108)
382025.00	3744950.00	590.24141	(15121108)	
	380425.00	3744975.00	418.30441	(14021808)
380450.00	3744975.00	426.89430	(14021808)	
	380475.00	3744975.00	435.17421	(14021808)
380500.00	3744975.00	441.16339	(14021808)	
	380525.00	3744975.00	447.12092	(14021808)
380550.00	3744975.00	451.03237	(14021808)	
	380575.00	3744975.00	453.12913	(14021808)
380600.00	3744975.00	453.72567	(14021808)	
	380625.00	3744975.00	457.03030	(15021808)
380650.00	3744975.00	490.55706	(15021808)	
	380675.00	3744975.00	524.06872	(15021808)
380700.00	3744975.00	557.23557	(15021808)	
	380725.00	3744975.00	588.85353	(15021808)
380750.00	3744975.00	618.66012	(15021808)	
	380775.00	3744975.00	645.71649	(15021808)
380800.00	3744975.00	669.33925	(15021808)	
	380825.00	3744975.00	689.14408	(15021808)
380850.00	3744975.00	704.10931	(15021808)	
	380875.00	3744975.00	712.46535	(15021808)
380900.00	3744975.00	714.73127	(15021808)	
	380950.00	3744975.00	728.98004	(13011408)
380975.00	3744975.00	751.52013	(13011408)	
	381625.00	3744975.00	748.42648	(16121908)
381650.00	3744975.00	763.26541	(16121908)	
	381675.00	3744975.00	768.97260	(16121908)
381700.00	3744975.00	769.45037	(16121908)	
	381725.00	3744975.00	765.45423	(16121908)
381750.00	3744975.00	749.26499	(16121908)	
	381775.00	3744975.00	727.83331	(16121908)
381800.00	3744975.00	704.56004	(14120808)	
	381825.00	3744975.00	705.04072	(14120808)
381850.00	3744975.00	698.47205	(14120808)	
	381875.00	3744975.00	685.87673	(14120808)
381900.00	3744975.00	668.63486	(14120808)	
	381925.00	3744975.00	653.79781	(16122108)
381950.00	3744975.00	641.08177	(16122108)	
	381975.00	3744975.00	629.53013	(15121108)
382000.00	3744975.00	621.30945	(15121108)	
	382025.00	3744975.00	606.54388	(15121108)
380425.00	3745000.00	426.11611	(14021808)	
	380450.00	3745000.00	437.03790	(14021808)
380475.00	3745000.00	447.82660	(14021808)	
	380500.00	3745000.00	456.40338	(14021808)
380525.00	3745000.00	464.81202	(14021808)	
	380550.00	3745000.00	471.73742	(14021808)
380575.00	3745000.00	476.64289	(14021808)	
	380600.00	3745000.00	480.07589	(14021808)
380625.00	3745000.00	481.15641	(14021808)	
	380650.00	3745000.00	480.58230	(15021808)
380675.00	3745000.00	516.89769	(15021808)	

380700.00	3745000.00	553.50856	(15021808)
380725.00	3745000.00	588.86280	(15021808)



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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
-----				
380750.00	3745000.00	623.31369	(15021808)	
380775.00	3745000.00	655.50340	(15021808)	
380800.00	3745000.00	684.20966	(15021808)	
380825.00	3745000.00	709.46677	(15021808)	
380850.00	3745000.00	730.11133	(15021808)	
380875.00	3745000.00	744.27818	(15021808)	
380900.00	3745000.00	751.85331	(15021808)	
380950.00	3745000.00	748.13979	(13011408)	
380975.00	3745000.00	777.77145	(13011408)	
381625.00	3745000.00	797.27021	(16121908)	
381650.00	3745000.00	803.42915	(16121908)	
381675.00	3745000.00	806.22775	(16121908)	
381700.00	3745000.00	802.01122	(16121908)	
381725.00	3745000.00	786.92281	(16121908)	
381750.00	3745000.00	771.54172	(16121908)	
381775.00	3745000.00	743.41531	(16121908)	
381800.00	3745000.00	734.93389	(14120808)	
381825.00	3745000.00	740.27971	(14120808)	
381850.00	3745000.00	728.18496	(14120808)	
381875.00	3745000.00	710.28023	(14120808)	
381900.00	3745000.00	692.87906	(16122108)	
381925.00	3745000.00	678.51900	(16122108)	
381950.00	3745000.00	666.38124	(15121108)	
381975.00	3745000.00	651.53779	(15121108)	

	382000.00	3745000.00	636.22606	(15121108)
382025.00	3745000.00	616.84239	(15121108)	
	380425.00	3745025.00	431.14477	(14021808)
380450.00	3745025.00	444.43264	(14021808)	
	380475.00	3745025.00	457.76674	(14021808)
380500.00	3745025.00	469.06585	(14021808)	
	380525.00	3745025.00	479.96712	(14021808)
380550.00	3745025.00	490.22064	(14021808)	
	380575.00	3745025.00	498.17256	(14021808)
380600.00	3745025.00	504.54142	(14021808)	
	380625.00	3745025.00	508.58735	(14021808)
380650.00	3745025.00	510.79501	(14021808)	
	380675.00	3745025.00	511.01683	(14021808)
380700.00	3745025.00	546.03308	(15021808)	
	380725.00	3745025.00	585.11598	(15021808)
380750.00	3745025.00	624.13375	(15021808)	
	380775.00	3745025.00	661.33748	(15021808)
380800.00	3745025.00	695.81290	(15021808)	
	380825.00	3745025.00	726.93036	(15021808)
380850.00	3745025.00	753.54034	(15021808)	
	380875.00	3745025.00	774.27106	(15021808)
380900.00	3745025.00	788.10493	(15021808)	
	381625.00	3745025.00	849.28271	(16121908)
381650.00	3745025.00	852.09475	(16121908)	
	381675.00	3745025.00	847.32545	(16121908)
381700.00	3745025.00	837.67149	(16121908)	
	381725.00	3745025.00	817.26112	(16121908)
381750.00	3745025.00	792.30973	(16121908)	
	381775.00	3745025.00	775.72215	(14120808)
381800.00	3745025.00	772.57675	(14120808)	
	381825.00	3745025.00	762.79823	(14120808)
381850.00	3745025.00	744.75340	(14120808)	
	381875.00	3745025.00	726.46465	(16122108)
381900.00	3745025.00	711.88126	(16122108)	
	381925.00	3745025.00	702.32436	(15121108)
381950.00	3745025.00	689.70442	(15121108)	
	381975.00	3745025.00	670.44539	(15121108)
382000.00	3745025.00	652.85755	(15121108)	
	382025.00	3745025.00	629.12665	(15121108)
380425.00	3745050.00	433.23611	(14021808)	
	380450.00	3745050.00	448.83577	(14021808)
380475.00	3745050.00	464.29068	(14021808)	
	380500.00	3745050.00	478.75158	(14021808)
380525.00	3745050.00	492.18958	(14021808)	
	380550.00	3745050.00	505.72746	(14021808)
380575.00	3745050.00	517.03942	(14021808)	
	380600.00	3745050.00	527.00089	(14021808)
380625.00	3745050.00	534.46441	(14021808)	
	380650.00	3745050.00	540.32704	(14021808)
380675.00	3745050.00	544.32337	(14021808)	
	380700.00	3745050.00	544.86901	(14021808)
380725.00	3745050.00	577.46721	(15021808)	
	380750.00	3745050.00	620.27558	(15021808)
380775.00	3745050.00	663.00374	(15021808)	

380800.00	3745050.00	702.97742	(15021808)
380825.00	3745050.00	740.34066	(15021808)

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      VOL1
VOL2      , VOL3      , VOL4      , VOL5      ,
      VOL6      , VOL7      , VOL8      , VOL9      ,
VOL10     , VOL11     , VOL12     , VOL13     ,
      VOL14     , VOL15     , VOL16     , VOL17     ,
VOL18     , VOL19     , VOL20     , VOL21     ,
      VOL22     , VOL23     , VOL24     , VOL25     ,
VOL26     , VOL27     , VOL28     , . . . ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380850.00	3745050.00	773.86480 (15021808)	
380875.00	3745050.00	801.73381 (15021808)	
380900.00	3745050.00	822.82016 (15021808)	
381625.00	3745050.00	898.92880 (16121908)	
381650.00	3745050.00	901.07988 (16121908)	
381675.00	3745050.00	888.18730 (16121908)	
381700.00	3745050.00	870.90611 (16121908)	
381725.00	3745050.00	845.03984 (16121908)	
381750.00	3745050.00	817.55649 (14120808)	
381775.00	3745050.00	815.64624 (14120808)	
381800.00	3745050.00	806.70903 (14120808)	
381825.00	3745050.00	790.51217 (14120808)	
381850.00	3745050.00	767.42744 (16122108)	
381875.00	3745050.00	754.22847 (16122108)	
381900.00	3745050.00	739.76143 (15121108)	
381925.00	3745050.00	724.95460 (15121108)	
381950.00	3745050.00	705.85214 (15121108)	
381975.00	3745050.00	686.01895 (15121108)	
382000.00	3745050.00	664.17961 (15121108)	
382025.00	3745050.00	651.24018 (16020908)	
380425.00	3745075.00	432.01253 (14021808)	
380450.00	3745075.00	449.80070 (14021808)	
380475.00	3745075.00	467.92124 (14021808)	
380500.00	3745075.00	484.88319 (14021808)	

	380525.00	3745075.00	500.71812	(14021808)
380550.00	3745075.00		518.16895	(14021808)
	380575.00	3745075.00	532.94458	(14021808)
380600.00	3745075.00		546.76119	(14021808)
	380625.00	3745075.00	558.10386	(14021808)
380650.00	3745075.00		568.06400	(14021808)
	380675.00	3745075.00	575.76162	(14021808)
380700.00	3745075.00		580.51990	(14021808)
	380725.00	3745075.00	581.80190	(14021808)
380750.00	3745075.00		612.08747	(15021808)
	380775.00	3745075.00	659.87924	(15021808)
380800.00	3745075.00		705.45394	(15021808)
	380825.00	3745075.00	749.25165	(15021808)
380850.00	3745075.00		790.23991	(15021808)
	380875.00	3745075.00	825.90072	(15021808)
380900.00	3745075.00		855.02581	(15021808)
	380925.00	3745075.00	874.25386	(15021808)
381600.00	3745075.00		941.51346	(16121908)
	381625.00	3745075.00	956.41650	(16121908)
381650.00	3745075.00		952.14696	(16121908)
	381675.00	3745075.00	934.34994	(16121908)
381700.00	3745075.00		908.63828	(16121908)
	381725.00	3745075.00	874.21390	(16121908)
381750.00	3745075.00		869.18928	(14120808)
	381775.00	3745075.00	858.31545	(14120808)
381800.00	3745075.00		842.96336	(14120808)
	381825.00	3745075.00	818.63939	(14120808)
381850.00	3745075.00		803.24615	(16122108)
	381875.00	3745075.00	786.00060	(15121108)
381900.00	3745075.00		769.79536	(15121108)
	381925.00	3745075.00	748.09575	(15121108)
381950.00	3745075.00		723.19276	(15121108)
	381975.00	3745075.00	698.39966	(16020908)
382000.00	3745075.00		688.45508	(16020908)
	382025.00	3745075.00	670.71860	(16020908)
380425.00	3745100.00		427.54763	(14021808)
	380450.00	3745100.00	447.17489	(14021808)
380475.00	3745100.00		467.51616	(14021808)
	380500.00	3745100.00	487.22974	(14021808)
380525.00	3745100.00		505.45778	(14021808)
	380550.00	3745100.00	526.60027	(14021808)
380575.00	3745100.00		544.67992	(14021808)
	380600.00	3745100.00	562.20645	(14021808)
380625.00	3745100.00		578.08198	(14021808)
	380650.00	3745100.00	592.30901	(14021808)
380675.00	3745100.00		604.63025	(14021808)
	380700.00	3745100.00	614.12369	(14021808)
380725.00	3745100.00		620.06167	(14021808)
	380750.00	3745100.00	623.11661	(14021808)
380775.00	3745100.00		651.55578	(15021808)
	380800.00	3745100.00	702.87110	(15021808)
380825.00	3745100.00		753.13836	(15021808)
	380850.00	3745100.00	801.67695	(15021808)
380875.00	3745100.00		845.57596	(15021808)

380900.00	3745100.00	883.52516	(15021808)
380925.00	3745100.00	911.48306	(15021808)

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
381600.00	3745100.00	1004.67987 (16121908)	
381625.00	3745100.00	1016.40021 (16121908)	
381650.00	3745100.00	994.71616 (16121908)	
381675.00	3745100.00	971.76735 (16121908)	
381700.00	3745100.00	942.43664 (16121908)	
381725.00	3745100.00	921.65582 (14120808)	
381750.00	3745100.00	916.07945 (14120808)	
381775.00	3745100.00	899.30587 (14120808)	
381800.00	3745100.00	875.23279 (14120808)	
381825.00	3745100.00	855.49982 (16122108)	
381850.00	3745100.00	838.58669 (15121108)	
381875.00	3745100.00	822.37875 (15121108)	
381900.00	3745100.00	798.93232 (15121108)	
381925.00	3745100.00	770.70370 (15121108)	
381950.00	3745100.00	739.06387 (16020908)	
381975.00	3745100.00	726.89752 (16020908)	
382000.00	3745100.00	712.09222 (16020908)	
382025.00	3745100.00	691.28976 (16020908)	
380425.00	3745125.00	451.59007 (14121608)	
380450.00	3745125.00	454.65501 (14121608)	
380475.00	3745125.00	463.29929 (14021808)	
380500.00	3745125.00	485.40133 (14021808)	
380525.00	3745125.00	505.84131 (14021808)	
380550.00	3745125.00	530.77707 (14021808)	

	380575.00	3745125.00	552.18341	(14021808)
380600.00	3745125.00	573.65155	(14021808)	
	380625.00	3745125.00	593.90331	(14021808)
380650.00	3745125.00	612.51381	(14021808)	
	380675.00	3745125.00	629.83238	(14021808)
380700.00	3745125.00	644.68065	(14021808)	
	380725.00	3745125.00	655.85658	(14021808)
380750.00	3745125.00	664.44282	(14021808)	
	380775.00	3745125.00	669.58560	(14021808)
380800.00	3745125.00	694.52274	(15021808)	
	380825.00	3745125.00	751.41573	(15021808)
380850.00	3745125.00	807.54896	(15021808)	
	380875.00	3745125.00	860.07993	(15021808)
380900.00	3745125.00	907.31925	(15021808)	
	380925.00	3745125.00	946.83358	(15021808)
381600.00	3745125.00	1071.32353	(16121908)	
	381625.00	3745125.00	1073.69754	(16121908)
381650.00	3745125.00	1045.73442	(16121908)	
	381675.00	3745125.00	1012.66801	(16121908)
381700.00	3745125.00	979.61487	(14120808)	
	381725.00	3745125.00	977.29827	(14120808)
381750.00	3745125.00	962.70084	(14120808)	
	381775.00	3745125.00	938.76138	(14120808)
381800.00	3745125.00	917.54023	(16122108)	
	381825.00	3745125.00	902.46346	(15121108)
381850.00	3745125.00	879.53796	(15121108)	
	381875.00	3745125.00	852.56895	(15121108)
381900.00	3745125.00	821.47519	(15121108)	
	381925.00	3745125.00	788.85698	(16020908)
381950.00	3745125.00	772.83396	(16020908)	
	381975.00	3745125.00	754.03549	(16020908)
382000.00	3745125.00	730.50516	(16020908)	
	382025.00	3745125.00	704.00174	(16020908)
380425.00	3745150.00	476.94464	(14121608)	
	380450.00	3745150.00	482.83585	(14121608)
380475.00	3745150.00	488.46182	(14121608)	
	380500.00	3745150.00	492.64623	(14121608)
380525.00	3745150.00	501.71780	(14021808)	
	380550.00	3745150.00	529.96517	(14021808)
380575.00	3745150.00	554.87944	(14021808)	
	380600.00	3745150.00	580.44297	(14021808)
380625.00	3745150.00	604.71108	(14021808)	
	380650.00	3745150.00	627.88720	(14021808)
380675.00	3745150.00	650.62521	(14021808)	
	380700.00	3745150.00	671.07591	(14021808)
380725.00	3745150.00	688.16865	(14021808)	
	380750.00	3745150.00	702.89740	(14021808)
380775.00	3745150.00	714.35009	(14021808)	
	380800.00	3745150.00	720.92833	(14021808)
380825.00	3745150.00	742.97554	(15021808)	
	380850.00	3745150.00	806.71498	(15021808)
380875.00	3745150.00	868.16672	(15021808)	
	380900.00	3745150.00	925.56639	(15021808)
380925.00	3745150.00	976.45358	(15021808)	



381600.00	3745150.00	1141.07260	(16121908)
381625.00	3745150.00	1139.20812	(16121908)

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*** AERMOD - VERSION 18081 *** *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 *** ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
381650.00	3745150.00	1100.76514	(16121908)	
381675.00	3745150.00	1052.86443	(16121908)	
381700.00	3745150.00	1043.75225	(14120808)	
381725.00	3745150.00	1030.02981	(14120808)	
381750.00	3745150.00	1007.78319	(14120808)	
381775.00	3745150.00	985.90577	(16122108)	
381800.00	3745150.00	968.53452	(15121108)	
381825.00	3745150.00	947.21173	(15121108)	
381850.00	3745150.00	918.74400	(15121108)	
381875.00	3745150.00	878.99238	(15121108)	
381900.00	3745150.00	844.14806	(16020908)	
381925.00	3745150.00	824.67191	(16020908)	
381950.00	3745150.00	800.31862	(16020908)	
381975.00	3745150.00	771.43283	(16020908)	
382000.00	3745150.00	740.99849	(16020908)	
382025.00	3745150.00	724.22832	(16012708)	
380425.00	3745175.00	499.75373	(14121608)	
380450.00	3745175.00	508.45862	(14121608)	
380475.00	3745175.00	517.12628	(14121608)	
380500.00	3745175.00	524.45679	(14121608)	
380525.00	3745175.00	526.59152	(14121608)	
380550.00	3745175.00	537.26439	(14121608)	
380575.00	3745175.00	552.06835	(14021808)	
380600.00	3745175.00	581.10760	(14021808)	

	380625.00	3745175.00	609.66734	(14021808)
380650.00	3745175.00	637.34368	(14021808)	
	380675.00	3745175.00	665.64968	(14021808)
380700.00	3745175.00	692.08956	(14021808)	
	380725.00	3745175.00	715.43089	(14021808)
380750.00	3745175.00	736.95078	(14021808)	
	380775.00	3745175.00	755.61108	(14021808)
380800.00	3745175.00	769.51606	(14021808)	
	380825.00	3745175.00	778.84060	(14021808)
380850.00	3745175.00	798.52296	(15021808)	
	380875.00	3745175.00	868.96806	(15021808)
380900.00	3745175.00	936.66135	(15021808)	
	380925.00	3745175.00	999.89034	(15021808)
381600.00	3745175.00	1212.96689	(16121908)	
	381625.00	3745175.00	1204.15340	(16121908)
381650.00	3745175.00	1171.86361	(16121908)	
	381675.00	3745175.00	1120.81843	(14120808)
381700.00	3745175.00	1107.97816	(14120808)	
	381725.00	3745175.00	1082.87120	(14120808)
381750.00	3745175.00	1054.16577	(16122108)	
	381775.00	3745175.00	1040.25270	(15121108)
381800.00	3745175.00	1024.39965	(15121108)	
	381825.00	3745175.00	987.38571	(15121108)
381850.00	3745175.00	943.72061	(15121108)	
	381875.00	3745175.00	906.07422	(16020908)
381900.00	3745175.00	883.30556	(16020908)	
	381925.00	3745175.00	853.46392	(16020908)
381950.00	3745175.00	820.32346	(16020908)	
	381975.00	3745175.00	785.23599	(16012708)
382000.00	3745175.00	771.06692	(16012708)	
	382025.00	3745175.00	730.87475	(16012708)
380425.00	3745200.00	519.19685	(14121608)	
	380450.00	3745200.00	531.01028	(14121608)
380475.00	3745200.00	542.56194	(14121608)	
	380500.00	3745200.00	553.27992	(14121608)
380525.00	3745200.00	557.86260	(14121608)	
	380550.00	3745200.00	573.26071	(14121608)
380575.00	3745200.00	580.39781	(14121608)	
	380600.00	3745200.00	587.62343	(14121608)
380625.00	3745200.00	608.49398	(14021808)	
	380650.00	3745200.00	640.20352	(14021808)
380675.00	3745200.00	674.14274	(14021808)	
	380700.00	3745200.00	706.48319	(14021808)
380725.00	3745200.00	736.47067	(14021808)	
	380750.00	3745200.00	765.13882	(14021808)
380775.00	3745200.00	791.66193	(14021808)	
	380800.00	3745200.00	813.94730	(14021808)
380825.00	3745200.00	831.74373	(14021808)	
	380850.00	3745200.00	844.90012	(14021808)
380875.00	3745200.00	861.17333	(15021808)	
	380900.00	3745200.00	939.44667	(15021808)
380925.00	3745200.00	1015.30217	(15021808)	
	381600.00	3745200.00	1287.90867	(16121908)
381625.00	3745200.00	1269.72475	(16121908)	

381650.00	3745200.00	1227.73330	(16121908)
381675.00	3745200.00	1200.86015	(14120808)

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .           ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
381700.00	3745200.00	1174.90000 (14120808)	
381725.00	3745200.00	1139.38179 (14120808)	
381750.00	3745200.00	1121.30235 (15121108)	
381775.00	3745200.00	1105.67798 (15121108)	
381800.00	3745200.00	1067.60797 (15121108)	
381825.00	3745200.00	1013.46219 (15121108)	
381850.00	3745200.00	976.31000 (16020908)	
381875.00	3745200.00	952.30979 (16020908)	
381900.00	3745200.00	916.95208 (16020908)	
381925.00	3745200.00	877.05055 (16020908)	
381950.00	3745200.00	845.44534 (16012708)	
381975.00	3745200.00	824.46750 (16012708)	
382000.00	3745200.00	800.98962 (16012708)	
380425.00	3745225.00	534.80301 (14121608)	
380450.00	3745225.00	549.21344 (14121608)	
380475.00	3745225.00	564.08098 (14121608)	
380500.00	3745225.00	578.09517 (14121608)	
380525.00	3745225.00	585.27838 (14121608)	
380550.00	3745225.00	605.19887 (14121608)	
380575.00	3745225.00	616.88338 (14121608)	
380600.00	3745225.00	629.15936 (14121608)	
380625.00	3745225.00	639.10164 (14121608)	
380650.00	3745225.00	645.56864 (14121608)	
380675.00	3745225.00	675.06791 (14021808)	

	380700.00	3745225.00	713.13639	(14021808)
380725.00	3745225.00	749.85515	(14021808)	
	380750.00	3745225.00	785.93802	(14021808)
380775.00	3745225.00	820.66978	(14021808)	
	380800.00	3745225.00	851.94125	(14021808)
380825.00	3745225.00	879.68365	(14021808)	
	380850.00	3745225.00	902.81859	(14021808)
380875.00	3745225.00	919.83346	(14021808)	
	380900.00	3745225.00	933.03660	(15021808)
380925.00	3745225.00	1021.31250	(15021808)	
	380950.00	3745225.00	1140.61195	(15021808)
381600.00	3745225.00	1367.34575	(16121908)	
	381625.00	3745225.00	1334.70030	(16121908)
381650.00	3745225.00	1318.52071	(14120808)	
	381675.00	3745225.00	1282.28345	(14120808)
381700.00	3745225.00	1252.15603	(14120808)	
	381725.00	3745225.00	1218.07819	(16122108)
381750.00	3745225.00	1194.94190	(15121108)	
	381775.00	3745225.00	1160.92443	(15121108)
381800.00	3745225.00	1104.66849	(15121108)	
	381825.00	3745225.00	1058.89133	(16020908)
381850.00	3745225.00	1022.40464	(16020908)	
	381875.00	3745225.00	983.46955	(16020908)
381900.00	3745225.00	939.03795	(16020908)	
	381925.00	3745225.00	910.42271	(16012708)
381950.00	3745225.00	879.06995	(16012708)	
	381975.00	3745225.00	852.69799	(16012708)
382000.00	3745225.00	782.79231	(16012708)	
	380425.00	3745250.00	545.41313	(14121608)
380450.00	3745250.00	562.68412	(14121608)	
	380475.00	3745250.00	580.44556	(14121608)
380500.00	3745250.00	598.12332	(14121608)	
	380525.00	3745250.00	607.67065	(14121608)
380550.00	3745250.00	633.03185	(14121608)	
	380575.00	3745250.00	648.82242	(14121608)
380600.00	3745250.00	665.57987	(14121608)	
	380625.00	3745250.00	681.07319	(14121608)
380650.00	3745250.00	692.49839	(14121608)	
	380675.00	3745250.00	708.47077	(14121608)
380700.00	3745250.00	719.32799	(14121608)	
	380725.00	3745250.00	754.33211	(14021808)
380750.00	3745250.00	797.80355	(14021808)	
	380775.00	3745250.00	840.51177	(14021808)
380800.00	3745250.00	881.69122	(14021808)	
	380825.00	3745250.00	920.02251	(14021808)
380850.00	3745250.00	954.48165	(14021808)	
	380875.00	3745250.00	983.50614	(14021808)
380900.00	3745250.00	1005.89036	(14021808)	
	380925.00	3745250.00	1019.64581	(14021808)
380950.00	3745250.00	1112.38724	(15021808)	
	381600.00	3745250.00	1453.57999	(16121908)
381625.00	3745250.00	1412.68549	(14120808)	
	381650.00	3745250.00	1407.25964	(14120808)
381675.00	3745250.00	1364.48391	(14120808)	

381700.00	3745250.00	1334.39953	(16122108)
381725.00	3745250.00	1303.40107	(15121108)

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1
VOL2      , VOL3      , VOL4      , VOL5      ,
              VOL6      , VOL7      , VOL8      , VOL9      ,
VOL10     , VOL11     , VOL12     , VOL13     ,
              VOL14     , VOL15     , VOL16     , VOL17     ,
VOL18     , VOL19     , VOL20     , VOL21     ,
              VOL22     , VOL23     , VOL24     , VOL25     ,
VOL26     , VOL27     , VOL28     , . . . ,

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*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
381750.00	3745250.00	1259.74075 (15121108)	
381775.00	3745250.00	1208.83771 (15121108)	
381800.00	3745250.00	1162.90320 (16020908)	
381825.00	3745250.00	1109.91750 (16020908)	
381850.00	3745250.00	1058.21407 (16020908)	
381875.00	3745250.00	1008.78298 (16012708)	
381900.00	3745250.00	978.57623 (16012708)	
381925.00	3745250.00	951.74858 (16012708)	
381950.00	3745250.00	914.17269 (16012708)	
381975.00	3745250.00	838.76628 (16012708)	
382000.00	3745250.00	842.99964 (16012708)	
380425.00	3745275.00	550.59271 (14121608)	
380450.00	3745275.00	570.30218 (14121608)	
380475.00	3745275.00	591.39408 (14121608)	
380500.00	3745275.00	612.95952 (14121608)	
380525.00	3745275.00	620.26739 (14121608)	
380550.00	3745275.00	654.57520 (14121608)	
380575.00	3745275.00	675.14335 (14121608)	
380600.00	3745275.00	696.21413 (14121608)	
380625.00	3745275.00	717.53091 (14121608)	
380650.00	3745275.00	733.85599 (14121608)	
380675.00	3745275.00	758.33912 (14121608)	
380700.00	3745275.00	775.63186 (14121608)	
380725.00	3745275.00	790.62504 (14121608)	



	380750.00	3745275.00	803.27319	(14121608)
380775.00	3745275.00		849.65199	(14021808)
	380800.00	3745275.00	900.27911	(14021808)
380825.00	3745275.00		949.73363	(14021808)
	380850.00	3745275.00	996.69244	(14021808)
380875.00	3745275.00		1039.45885	(14021808)
	380900.00	3745275.00	1076.05007	(14021808)
380925.00	3745275.00		1105.41655	(14021808)
	380950.00	3745275.00	1124.49164	(14021808)
381600.00	3745275.00		1540.19649	(16121908)
	381625.00	3745275.00	1542.52847	(14120808)
381650.00	3745275.00		1513.48035	(14120808)
	381675.00	3745275.00	1455.36410	(16122108)
381700.00	3745275.00		1432.54529	(15121108)
	381725.00	3745275.00	1381.39224	(15121108)
381750.00	3745275.00		1317.02921	(15121108)
	381775.00	3745275.00	1275.98331	(16020908)
381800.00	3745275.00		1219.93162	(16020908)
	381825.00	3745275.00	1151.44206	(16020908)
381850.00	3745275.00		1098.06566	(16012708)
	381875.00	3745275.00	1058.04005	(16012708)
381900.00	3745275.00		1017.11158	(16012708)
	381925.00	3745275.00	976.26741	(16012708)
381950.00	3745275.00		929.44293	(16012708)
	381975.00	3745275.00	874.16121	(16012708)
382000.00	3745275.00		842.60369	(16012708)
	380425.00	3745300.00	550.40183	(14121608)
380450.00	3745300.00		572.53983	(14121608)
	380475.00	3745300.00	596.41397	(14121608)
380500.00	3745300.00		620.30199	(14121608)
	380525.00	3745300.00	639.36876	(14121608)
380550.00	3745300.00		662.12904	(14121608)
	380575.00	3745300.00	694.49499	(14121608)
380600.00	3745300.00		719.69045	(14121608)
	380625.00	3745300.00	746.41275	(14121608)
380650.00	3745300.00		767.92719	(14121608)
	380675.00	3745300.00	796.72896	(14121608)
380700.00	3745300.00		822.64890	(14121608)
	380725.00	3745300.00	848.99875	(14121608)
380750.00	3745300.00		870.71119	(14121608)
	380775.00	3745300.00	889.82130	(14121608)
380800.00	3745300.00		906.57106	(14021808)
	380825.00	3745300.00	967.11200	(14021808)
380850.00	3745300.00		1026.87948	(14021808)
	380875.00	3745300.00	1084.54549	(14021808)
380900.00	3745300.00		1137.90125	(14021808)
	380925.00	3745300.00	1184.80278	(14021808)
380950.00	3745300.00		1222.43941	(14021808)
	381600.00	3745300.00	1676.48058	(14120808)
381625.00	3745300.00		1667.85576	(14120808)
	381650.00	3745300.00	1614.20593	(16122108)
381675.00	3745300.00		1565.63910	(15121108)
	381700.00	3745300.00	1524.44084	(15121108)
381725.00	3745300.00		1451.79856	(15121108)

381750.00	3745300.00	1398.18241	(16020908)
381775.00	3745300.00	1340.33951	(16020908)

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*** AERMOD - VERSION 18081 *** *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 *** ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	
381800.00	3745300.00	1256.41744	(16020908)	
381825.00	3745300.00	1204.16202	(16012708)	
381850.00	3745300.00	1149.89918	(16012708)	
381875.00	3745300.00	1096.51369	(16012708)	
381900.00	3745300.00	1040.17157	(16012708)	
381925.00	3745300.00	987.69121	(16012708)	
380425.00	3745325.00	555.58419	(12112608)	
380450.00	3745325.00	571.90215	(12112608)	
380475.00	3745325.00	593.63450	(14121608)	
380500.00	3745325.00	620.13920	(14121608)	
380525.00	3745325.00	645.60938	(14121608)	
380550.00	3745325.00	669.55743	(14121608)	
380575.00	3745325.00	692.88257	(14121608)	
380600.00	3745325.00	734.91564	(14121608)	
380625.00	3745325.00	766.15241	(14121608)	
380650.00	3745325.00	794.36952	(14121608)	
380675.00	3745325.00	829.17506	(14121608)	
380700.00	3745325.00	862.24285	(14121608)	
380725.00	3745325.00	897.96020	(14121608)	
380750.00	3745325.00	927.82671	(14121608)	
380775.00	3745325.00	959.15440	(14121608)	
380800.00	3745325.00	986.93877	(14121608)	
380825.00	3745325.00	1011.37439	(14121608)	
380850.00	3745325.00	1041.04461	(14021808)	

	380875.00	3745325.00	1113.82679	(14021808)
380900.00	3745325.00		1185.00615	(14021808)
	380925.00	3745325.00	1252.20360	(14021808)
380950.00	3745325.00		1311.42637	(14021808)
	381600.00	3745325.00	1826.12322	(14120808)
381625.00	3745325.00		1788.54991	(14120808)
	381650.00	3745325.00	1744.35060	(15121108)
381675.00	3745325.00		1680.07471	(15121108)
	381700.00	3745325.00	1607.70761	(15121108)
381725.00	3745325.00		1549.65997	(16020908)
	381750.00	3745325.00	1472.98920	(16020908)
381775.00	3745325.00		1397.72665	(16012708)
	381800.00	3745325.00	1334.64047	(16012708)
381825.00	3745325.00		1258.47731	(16012708)
	381850.00	3745325.00	1186.05736	(16012708)
381875.00	3745325.00		1117.89718	(16012708)
	381900.00	3745325.00	1048.03633	(16012708)
381925.00	3745325.00		987.27345	(16012708)
	380425.00	3745350.00	570.45967	(12112608)
380450.00	3745350.00		589.58335	(12112608)
	380475.00	3745350.00	609.04888	(12112608)
380500.00	3745350.00		629.32622	(12112608)
	380525.00	3745350.00	648.29443	(12112608)
380550.00	3745350.00		672.35677	(14121608)
	380575.00	3745350.00	702.50652	(14121608)
380600.00	3745350.00		721.64237	(14121608)
	380625.00	3745350.00	774.29945	(14121608)
380650.00	3745350.00		810.23431	(14121608)
	380675.00	3745350.00	850.74441	(14121608)
380700.00	3745350.00		890.61852	(14121608)
	380725.00	3745350.00	934.45635	(14121608)
380750.00	3745350.00		972.64074	(14121608)
	380775.00	3745350.00	1016.03517	(14121608)
380800.00	3745350.00		1057.46045	(14121608)
	380825.00	3745350.00	1096.25661	(14121608)
380850.00	3745350.00		1131.22545	(14121608)
	380875.00	3745350.00	1162.16208	(14121608)
380900.00	3745350.00		1212.14582	(14021808)
	380925.00	3745350.00	1301.37061	(14021808)
380950.00	3745350.00		1385.62820	(14021808)
	381600.00	3745350.00	1989.38037	(14120808)
381625.00	3745350.00		1936.88586	(15121108)
	381650.00	3745350.00	1890.42263	(15121108)
381675.00	3745350.00		1784.38617	(15121108)
	381700.00	3745350.00	1727.50750	(16020908)
381725.00	3745350.00		1641.32738	(16020908)
	381750.00	3745350.00	1548.50213	(16012708)
381775.00	3745350.00		1486.29682	(16012708)
	381800.00	3745350.00	1400.41862	(16012708)
381825.00	3745350.00		1288.22841	(16012708)
	381850.00	3745350.00	1198.37731	(16012708)
381875.00	3745350.00		1116.74886	(16012708)
	381900.00	3745350.00	1036.84238	(16012708)
381925.00	3745350.00		928.02884	(16012708)

380425.00	3745375.00	578.79808	(12112608)
380450.00	3745375.00	600.31667	(12112608)

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
          INCLUDING SOURCE(S):      VOL1
VOL2      , VOL3      , VOL4      , VOL5      ,
          VOL6      , VOL7      , VOL8      , VOL9      ,
VOL10     , VOL11     , VOL12     , VOL13     ,
          VOL14     , VOL15     , VOL16     , VOL17     ,
VOL18     , VOL19     , VOL20     , VOL21     ,
          VOL22     , VOL23     , VOL24     , VOL25     ,
VOL26     , VOL27     , VOL28     , . . .      ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380475.00	3745375.00	622.64815 (12112608)	
380500.00	3745375.00	646.07466 (12112608)	
380525.00	3745375.00	669.34398 (12112608)	
380550.00	3745375.00	693.71598 (12112608)	
380575.00	3745375.00	718.83176 (12112608)	
380600.00	3745375.00	745.53788 (12112608)	
380625.00	3745375.00	751.75278 (12112608)	
380650.00	3745375.00	813.00524 (14121608)	
380675.00	3745375.00	857.13291 (14121608)	
380700.00	3745375.00	903.26572 (14121608)	
380725.00	3745375.00	954.38345 (14121608)	
380750.00	3745375.00	1004.22057 (14121608)	
380775.00	3745375.00	1057.13678 (14121608)	
380800.00	3745375.00	1113.28370 (14121608)	
380825.00	3745375.00	1166.04303 (14121608)	
380850.00	3745375.00	1219.27972 (14121608)	
380875.00	3745375.00	1269.31239 (14121608)	
380900.00	3745375.00	1316.70012 (14121608)	
380925.00	3745375.00	1357.70154 (14121608)	
380950.00	3745375.00	1437.29385 (14021808)	
381600.00	3745375.00	2161.93022 (16122108)	
381625.00	3745375.00	2115.98472 (15121108)	
381650.00	3745375.00	2019.25069 (15121108)	
381675.00	3745375.00	1937.83447 (16020908)	

	381700.00	3745375.00	1830.77729	(16020908)
381725.00	3745375.00	1738.17793	(16012708)	
	381750.00	3745375.00	1636.04786	(16012708)
381775.00	3745375.00	1539.63380	(16012708)	
	381800.00	3745375.00	1422.96731	(16012708)
381825.00	3745375.00	1293.36938	(16012708)	
	381850.00	3745375.00	1189.39107	(16012708)
381875.00	3745375.00	1083.32944	(16012708)	
	381900.00	3745375.00	1007.99136	(12122516)
381925.00	3745375.00	936.26497	(12122516)	
	380425.00	3745400.00	591.61288	(14013008)
380450.00	3745400.00	612.44375	(14013008)	
	380475.00	3745400.00	634.43671	(14013008)
380500.00	3745400.00	657.52929	(14013008)	
	380525.00	3745400.00	681.40687	(12112608)
380550.00	3745400.00	708.92868	(12112608)	
	380575.00	3745400.00	738.40878	(12112608)
380600.00	3745400.00	769.76618	(12112608)	
	380625.00	3745400.00	800.99971	(12112608)
380650.00	3745400.00	824.67754	(12112608)	
	380675.00	3745400.00	865.17568	(12112608)
380700.00	3745400.00	905.32014	(12112608)	
	380725.00	3745400.00	956.44264	(14121608)
380750.00	3745400.00	1015.99326	(14121608)	
	380775.00	3745400.00	1079.65069	(14121608)
380800.00	3745400.00	1146.67736	(14121608)	
	380825.00	3745400.00	1216.19321	(14121608)
380850.00	3745400.00	1286.43529	(14121608)	
	380875.00	3745400.00	1357.71934	(14121608)
380900.00	3745400.00	1428.73019	(14121608)	
	380925.00	3745400.00	1496.86448	(14121608)
380950.00	3745400.00	1555.66089	(14121608)	
	381600.00	3745400.00	2385.25411	(15121108)
381625.00	3745400.00	2309.15157	(16020908)	
	381650.00	3745400.00	2220.36705	(16020908)
381675.00	3745400.00	2067.03329	(16020908)	
	381700.00	3745400.00	1969.28256	(16012708)
381725.00	3745400.00	1841.66819	(16012708)	
	381750.00	3745400.00	1705.59416	(16012708)
381775.00	3745400.00	1560.24259	(16012708)	
	381800.00	3745400.00	1425.00445	(12122516)
381825.00	3745400.00	1331.36466	(12122516)	
	381850.00	3745400.00	1231.30666	(12122516)
381875.00	3745400.00	1131.03009	(12122516)	
	381900.00	3745400.00	1032.69227	(12122516)
381925.00	3745400.00	940.61831	(12122516)	
	380425.00	3745425.00	599.40228	(14013008)
380450.00	3745425.00	622.11292	(14013008)	
	380475.00	3745425.00	646.37578	(14013008)
380500.00	3745425.00	672.17844	(14013008)	
	380525.00	3745425.00	698.82449	(14013008)
380550.00	3745425.00	727.23042	(14013008)	
	380575.00	3745425.00	756.89269	(14013008)
380600.00	3745425.00	788.27207	(14013008)	

380625.00	3745425.00	819.72505	(14013008)
380650.00	3745425.00	853.67151	(12112608)



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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

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X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380675.00	3745425.00	892.72000 (12112608)	
380700.00	3745425.00	930.66263 (12112608)	
380725.00	3745425.00	991.27142 (12112608)	
380750.00	3745425.00	1040.91997 (12112608)	
380775.00	3745425.00	1093.01168 (12112608)	
380800.00	3745425.00	1158.14574 (14121608)	
380825.00	3745425.00	1238.88266 (14121608)	
380850.00	3745425.00	1324.60037 (14121608)	
380875.00	3745425.00	1415.58946 (14121608)	
380900.00	3745425.00	1511.92048 (14121608)	
380925.00	3745425.00	1609.59985 (14121608)	
380950.00	3745425.00	1704.16007 (14121608)	
381600.00	3745425.00	2638.81619 (16020908)	
381625.00	3745425.00	2582.09891 (16020908)	
381650.00	3745425.00	2395.31268 (15021208)	
381675.00	3745425.00	2239.70966 (16012708)	
381700.00	3745425.00	2094.71431 (16012708)	
381725.00	3745425.00	1940.54099 (12122516)	
381750.00	3745425.00	1819.32483 (12122516)	
381775.00	3745425.00	1682.75194 (12122516)	
381800.00	3745425.00	1541.21998 (12122516)	
381825.00	3745425.00	1400.14919 (12122516)	
381850.00	3745425.00	1261.70881 (12122516)	
381875.00	3745425.00	1132.88594 (12122516)	

	381900.00	3745425.00	1025.30557	(16120916)
381925.00	3745425.00		1016.56812	(14120408)
	380425.00	3745450.00	601.25260	(13021808)
380450.00	3745450.00		624.21341	(14013008)
	380475.00	3745450.00	650.00506	(14013008)
380500.00	3745450.00		677.65101	(14013008)
	380525.00	3745450.00	706.63831	(14013008)
380550.00	3745450.00		737.61423	(14013008)
	380575.00	3745450.00	770.84285	(14013008)
380600.00	3745450.00		805.89400	(14013008)
	380625.00	3745450.00	838.21501	(14013008)
380650.00	3745450.00		876.33648	(14013008)
	380675.00	3745450.00	919.30815	(14013008)
380700.00	3745450.00		943.80727	(14013008)
	380725.00	3745450.00	1017.74647	(14013008)
380750.00	3745450.00		1071.64872	(12112608)
	380775.00	3745450.00	1133.86027	(12112608)
380800.00	3745450.00		1200.51828	(12112608)
	380825.00	3745450.00	1271.55264	(12112608)
380850.00	3745450.00		1347.77616	(12112608)
	380875.00	3745450.00	1437.20568	(14121608)
380900.00	3745450.00		1554.53600	(14121608)
	380925.00	3745450.00	1676.15485	(14121608)
380950.00	3745450.00		1810.47929	(14121608)
	381600.00	3745450.00	2986.67329	(16020908)
381625.00	3745450.00		2827.96298	(15021208)
	381650.00	3745450.00	2727.07952	(12122516)
381675.00	3745450.00		2600.67258	(12122516)
	381700.00	3745450.00	2419.38745	(12122516)
381725.00	3745450.00		2210.02874	(12122516)
	381750.00	3745450.00	1992.05411	(12122516)
381775.00	3745450.00		1779.41185	(12122516)
	381800.00	3745450.00	1579.33664	(12122516)
381825.00	3745450.00		1395.25623	(12122516)
	381850.00	3745450.00	1263.72303	(14120408)
381875.00	3745450.00		1206.55820	(14120408)
	380425.00	3745475.00	603.16569	(13021808)
380450.00	3745475.00		627.23533	(13021808)
	380475.00	3745475.00	652.91265	(13021808)
380500.00	3745475.00		680.50423	(13021808)
	380525.00	3745475.00	709.73378	(13021808)
380550.00	3745475.00		740.60570	(13021808)
	380575.00	3745475.00	774.25828	(13021808)
380600.00	3745475.00		810.08325	(13021808)
	380625.00	3745475.00	843.22455	(14013008)
380650.00	3745475.00		887.63512	(14013008)
	380675.00	3745475.00	935.96540	(14013008)
381600.00	3745475.00		3842.83006	(12122516)
	381625.00	3745475.00	3705.02930	(12122516)
381650.00	3745475.00		3413.65938	(12122516)
	381675.00	3745475.00	3059.00575	(12122516)
381700.00	3745475.00		2697.16387	(12122516)
	381725.00	3745475.00	2353.11171	(12122516)
381750.00	3745475.00		2039.68153	(12122516)

	381775.00	3745475.00	1761.20441	(12122516)
381800.00	3745475.00	1566.61325	(16120916)	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1
VOL2      , VOL3      , VOL4      , VOL5      ,
              VOL6      , VOL7      , VOL8      , VOL9      ,
VOL10     , VOL11     , VOL12     , VOL13     ,
              VOL14     , VOL15     , VOL16     , VOL17     ,
VOL18     , VOL19     , VOL20     , VOL21     ,
              VOL22     , VOL23     , VOL24     , VOL25     ,
VOL26     , VOL27     , VOL28     , . . . ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
381825.00	3745475.00	1452.50635 (14120408)	
381850.00	3745475.00	1388.82567 (14120408)	
381875.00	3745475.00	1313.46988 (14120408)	
380425.00	3745500.00	597.25086 (13021808)	
380450.00	3745500.00	622.07848 (13021808)	
380475.00	3745500.00	648.55013 (13021808)	
380500.00	3745500.00	677.13625 (13021808)	
380525.00	3745500.00	707.73411 (13021808)	
380550.00	3745500.00	740.01117 (13021808)	
380575.00	3745500.00	775.61721 (13021808)	
380600.00	3745500.00	813.27507 (13021808)	
380625.00	3745500.00	846.69359 (13021808)	
380650.00	3745500.00	893.39818 (13021808)	
380675.00	3745500.00	942.38041 (13021808)	
381600.00	3745500.00	5335.37643 (12122516)	
381625.00	3745500.00	4636.61312 (12122516)	
381650.00	3745500.00	3921.61096 (12122516)	
381675.00	3745500.00	3288.89544 (12122516)	
381700.00	3745500.00	2753.23219 (12122516)	
381725.00	3745500.00	2302.06180 (12122516)	
381750.00	3745500.00	1988.10581 (16120916)	
381775.00	3745500.00	1817.66889 (14120408)	
381800.00	3745500.00	1688.12938 (14120408)	
381825.00	3745500.00	1582.92387 (14120408)	

	381850.00	3745500.00	1479.14517	(14120408)
381875.00	3745500.00	1385.90573	(14120408)	
	380425.00	3745525.00	583.88835	(13021808)
380450.00	3745525.00	608.53746	(13021808)	
	380475.00	3745525.00	634.99261	(13021808)
380500.00	3745525.00	663.90598	(13021808)	
	380525.00	3745525.00	694.77661	(13021808)
380550.00	3745525.00	727.54884	(13021808)	
	380575.00	3745525.00	763.25550	(13021808)
380600.00	3745525.00	801.79512	(13021808)	
	380625.00	3745525.00	836.14517	(13021808)
380650.00	3745525.00	884.73008	(13021808)	
	380675.00	3745525.00	933.65200	(13021808)
381600.00	3745525.00	6388.69874	(12122516)	
	381625.00	3745525.00	5003.53455	(12122516)
381650.00	3745525.00	3955.95599	(12122516)	
	381675.00	3745525.00	3148.99081	(12122516)
381700.00	3745525.00	2568.58968	(16120916)	
	381725.00	3745525.00	2321.24754	(14120408)
381750.00	3745525.00	2115.90362	(14120408)	
	381775.00	3745525.00	1938.32419	(14120408)
381800.00	3745525.00	1787.84403	(14120408)	
	381825.00	3745525.00	1651.89888	(14120408)
381850.00	3745525.00	1526.70674	(14120408)	
	381875.00	3745525.00	1371.54136	(14120408)
380425.00	3745550.00	572.10233	(15022008)	
	380450.00	3745550.00	594.55155	(12112908)
380475.00	3745550.00	618.85242	(12112908)	
	380500.00	3745550.00	645.47786	(12112908)
380525.00	3745550.00	673.72330	(12112908)	
	380550.00	3745550.00	703.94023	(12112908)
380575.00	3745550.00	738.00399	(13021808)	
	380600.00	3745550.00	775.41943	(13021808)
380625.00	3745550.00	809.47758	(13021808)	
	380650.00	3745550.00	857.51365	(13021808)
380675.00	3745550.00	905.27787	(13021808)	
	381600.00	3745550.00	6014.97769	(12122516)
381625.00	3745550.00	4533.95520	(12122516)	
	381650.00	3745550.00	3460.55037	(14120408)
381675.00	3745550.00	3038.26047	(14120408)	
	381700.00	3745550.00	2690.18793	(14120408)
381725.00	3745550.00	2406.44406	(14120408)	
	381750.00	3745550.00	2175.92624	(14120408)
381775.00	3745550.00	1966.95249	(14120408)	
	381800.00	3745550.00	1801.12668	(14120408)
381825.00	3745550.00	1647.72023	(14120408)	
	381850.00	3745550.00	1520.14652	(14120408)
380425.00	3745575.00	593.29219	(15022008)	
	380450.00	3745575.00	616.92393	(15022008)
380475.00	3745575.00	642.24670	(15022008)	
	380500.00	3745575.00	669.55217	(15022008)
380525.00	3745575.00	698.72205	(15022008)	
	380550.00	3745575.00	730.11216	(15022008)
380575.00	3745575.00	763.28796	(15022008)	

380600.00	3745575.00	797.41736	(15022008)
380625.00	3745575.00	831.73245	(15022008)

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN  ADJ_U*

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*** THE      1ST HIGHEST  1-HR AVERAGE
CONCENTRATION  VALUES FOR SOURCE GROUP:  ALL      ***
                INCLUDING SOURCE(S):      VOL1
VOL2           , VOL3           , VOL4           , VOL5           ,
                VOL6           , VOL7           , VOL8           , VOL9           ,
VOL10          , VOL11          , VOL12          , VOL13          ,
                VOL14          , VOL15          , VOL16          , VOL17          ,
VOL18          , VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          ,
VOL26          , VOL27          , VOL28          , . . .          ,

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\*\*\* DISCRETE CARTESIAN

RECEPTOR POINTS \*\*\*

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** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-
COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	
380650.00	3745575.00	878.11861 (15022008)	
380675.00	3745575.00	924.36250 (15022008)	
381600.00	3745575.00	5009.22010 (12122516)	
381625.00	3745575.00	3891.29397 (14120408)	
381650.00	3745575.00	3408.66293 (14120408)	
381675.00	3745575.00	2979.54397 (14120408)	
381700.00	3745575.00	2639.81149 (14120408)	
381725.00	3745575.00	2329.66702 (14120408)	
381750.00	3745575.00	2106.00552 (14120408)	
381775.00	3745575.00	1892.65475 (14120408)	
381800.00	3745575.00	1730.64428 (14120408)	
381825.00	3745575.00	1577.56344 (14120408)	
381850.00	3745575.00	1456.62910 (14120408)	
380425.00	3745600.00	606.76002 (15022008)	
380450.00	3745600.00	631.18819 (15022008)	
380475.00	3745600.00	657.21170 (15022008)	
380500.00	3745600.00	684.18645 (15022008)	
380525.00	3745600.00	715.12192 (15022008)	
380550.00	3745600.00	747.26075 (15022008)	
380575.00	3745600.00	781.10587 (15022008)	
380600.00	3745600.00	813.67210 (15022008)	
380625.00	3745600.00	851.20346 (15022008)	
380650.00	3745600.00	899.26613 (15022008)	
380675.00	3745600.00	946.46076 (15022008)	

	381600.00	3745600.00	4245.54493	(12122608)
381625.00	3745600.00	3788.35962	(12122608)	
	381650.00	3745600.00	3351.55205	(12122608)
381675.00	3745600.00	3013.47084	(12122608)	
	381700.00	3745600.00	2691.40622	(12122608)
381725.00	3745600.00	2394.72276	(12122608)	
	381750.00	3745600.00	2165.06013	(12122608)
381775.00	3745600.00	1960.87475	(12122608)	
	381800.00	3745600.00	1793.45356	(12122608)
381825.00	3745600.00	1644.17238	(12122608)	
	381850.00	3745600.00	1460.99970	(12122608)
380425.00	3745625.00	612.34836	(15022008)	
	380450.00	3745625.00	635.87433	(15022008)
380475.00	3745625.00	660.69160	(15022008)	
	380500.00	3745625.00	687.01342	(15022008)
380525.00	3745625.00	718.68484	(15022008)	
	380550.00	3745625.00	749.42039	(15022008)
380575.00	3745625.00	782.25718	(15022008)	
	380600.00	3745625.00	815.19384	(15022008)
380625.00	3745625.00	854.52878	(15022008)	
	380650.00	3745625.00	900.75236	(15022008)
380675.00	3745625.00	947.25963	(15022008)	
	381600.00	3745625.00	4099.44790	(12122608)
381625.00	3745625.00	3668.99001	(12122608)	
	381650.00	3745625.00	3309.18673	(12122608)
381675.00	3745625.00	2944.48150	(12122608)	
	381700.00	3745625.00	2649.86468	(12122608)
381725.00	3745625.00	2394.88175	(12122608)	
	381750.00	3745625.00	2179.22189	(12122608)
381775.00	3745625.00	1983.92692	(12122608)	
	381800.00	3745625.00	1818.67195	(12122608)
381825.00	3745625.00	1680.20394	(12122608)	
	381850.00	3745625.00	1440.32587	(12122608)
380425.00	3745650.00	609.83654	(15022008)	
	380450.00	3745650.00	628.99170	(15022008)
380475.00	3745650.00	653.48627	(15022008)	
	380500.00	3745650.00	679.83479	(15022008)
380525.00	3745650.00	713.50457	(15022008)	
	380550.00	3745650.00	745.10490	(15022008)
380575.00	3745650.00	776.24771	(15022008)	
	380600.00	3745650.00	807.74387	(15022008)
380625.00	3745650.00	841.46166	(15022008)	
	380650.00	3745650.00	884.63481	(15022008)
380675.00	3745650.00	929.11957	(15022008)	
	381600.00	3745650.00	3477.00223	(12122608)
381625.00	3745650.00	2806.05935	(12122608)	
	381650.00	3745650.00	2581.39377	(12122608)
381675.00	3745650.00	2384.89907	(12122608)	
	381700.00	3745650.00	2199.55443	(12122608)
381725.00	3745650.00	2033.19401	(12122608)	
	381750.00	3745650.00	1880.02326	(12122608)
381775.00	3745650.00	1742.96844	(12122608)	
	381800.00	3745650.00	1625.76498	(12122608)
381825.00	3745650.00	1528.02800	(12122608)	



	381850.00	3745650.00	1509.37765	(12122608)
380425.00	3745675.00	595.22226	(15022008)	

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*** AERMOD - VERSION 18081 ***    *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 ***    ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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```

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      VOL1
VOL2      , VOL3      , VOL4      , VOL5      ,
      VOL6      , VOL7      , VOL8      , VOL9      ,
VOL10     , VOL11     , VOL12     , VOL13     ,
      VOL14     , VOL15     , VOL16     , VOL17     ,
VOL18     , VOL19     , VOL20     , VOL21     ,
      VOL22     , VOL23     , VOL24     , VOL25     ,
VOL26     , VOL27     , VOL28     , . . . ,

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\*\*\* 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)	
380450.00	3745675.00	617.09992 (15022008)	
380475.00	3745675.00	640.12167 (15022008)	
380500.00	3745675.00	664.83012 (15022008)	
380525.00	3745675.00	696.61235 (15022008)	
380550.00	3745675.00	725.83797 (15022008)	
380575.00	3745675.00	755.44599 (15022008)	
380600.00	3745675.00	784.04883 (15022008)	
380625.00	3745675.00	814.56032 (15022008)	
380650.00	3745675.00	855.29199 (15022008)	
380675.00	3745675.00	895.41429 (15022008)	
380425.00	3745700.00	578.77946 (15022008)	
380450.00	3745700.00	599.91451 (15022008)	
380475.00	3745700.00	621.17731 (15022008)	
380500.00	3745700.00	642.19854 (15022008)	
380525.00	3745700.00	669.98083 (15022008)	
380550.00	3745700.00	695.66746 (15022008)	
380575.00	3745700.00	722.71004 (15022008)	
380600.00	3745700.00	748.62819 (15022008)	
380625.00	3745700.00	774.51142 (15022008)	
380650.00	3745700.00	809.10296 (15022008)	
380675.00	3745700.00	843.99274 (15022008)	
380425.00	3745725.00	556.16042 (15022008)	
380450.00	3745725.00	574.35022 (15022008)	
380475.00	3745725.00	592.72117 (15022008)	

	380500.00	3745725.00	611.25289	(15022008)
380525.00	3745725.00	634.36292	(15022008)	
	380550.00	3745725.00	656.25634	(15022008)
380575.00	3745725.00	679.74656	(15022008)	
	380600.00	3745725.00	702.33749	(15022008)
380625.00	3745725.00	724.06294	(15022008)	
	380650.00	3745725.00	752.30630	(15022008)
380675.00	3745725.00	781.16985	(15022008)	
	380425.00	3745750.00	525.40813	(15022008)
380450.00	3745750.00	541.16269	(15022008)	
	380475.00	3745750.00	557.23977	(15022008)
380500.00	3745750.00	573.41278	(15022008)	
	380525.00	3745750.00	591.75729	(15022008)
380550.00	3745750.00	609.63502	(15022008)	
	380575.00	3745750.00	633.72974	(12121208)
380600.00	3745750.00	660.73944	(12121208)	
	380625.00	3745750.00	687.56707	(12121208)
380650.00	3745750.00	718.35659	(12121208)	
	380675.00	3745750.00	750.22467	(12121208)
380500.00	3745775.00	551.56024	(12121208)	
	380525.00	3745775.00	572.43863	(12121208)
380550.00	3745775.00	594.06832	(12121208)	
	380575.00	3745775.00	616.80380	(12121208)
380600.00	3745775.00	640.56031	(12121208)	
	380625.00	3745775.00	664.32315	(12121208)
380650.00	3745775.00	690.61919	(12121208)	
	380675.00	3745775.00	717.07013	(12121208)
380500.00	3745800.00	535.88716	(12121208)	
	380525.00	3745800.00	553.85989	(12121208)
380550.00	3745800.00	572.43409	(12121208)	
	380575.00	3745800.00	591.55133	(12121208)
380600.00	3745800.00	611.60600	(12121208)	
	380625.00	3745800.00	631.83749	(12121208)
380650.00	3745800.00	658.64799	(16012008)	
	380675.00	3745800.00	695.46081	(16012008)
380500.00	3745825.00	514.14362	(12121208)	
	380525.00	3745825.00	528.92544	(12121208)
380550.00	3745825.00	544.24501	(12121208)	
	380575.00	3745825.00	568.29331	(16012008)
380600.00	3745825.00	597.52618	(16012008)	
	380625.00	3745825.00	628.14372	(16012008)
380650.00	3745825.00	659.86694	(16012008)	
	380675.00	3745825.00	692.90195	(16012008)
380500.00	3745850.00	497.78746	(16012008)	
	380525.00	3745850.00	521.10703	(16012008)
380550.00	3745850.00	545.43671	(16012008)	
	380575.00	3745850.00	570.70005	(16012008)
380600.00	3745850.00	596.83979	(16012008)	
	380625.00	3745850.00	623.78526	(16012008)
380650.00	3745850.00	651.37111	(16012008)	
	380675.00	3745850.00	679.47801	(16012008)

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*** AERMOD - VERSION 18081 *** *** KL Fenix Construction HRA
***      10/09/19
*** AERMET - VERSION 16216 *** ***
***      14:14:34

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*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

\*\*\* THE SUMMARY OF MAXIMUM PERIOD

( 43848 HRS) RESULTS \*\*\*

```

** CONC OF PM_10      IN
**
MICROGRAMS/M**3

```

NETWORK		AVERAGE CONC		RECEPTOR (XR,
GROUP ID	YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	128.39696	AT (	381600.00,
3745575.00,	6.91, 6.91,	0.00)	DC	
	2ND HIGHEST VALUE IS	124.75820	AT (	381600.00,
3745600.00,	6.64, 6.64,	0.00)	DC	
	3RD HIGHEST VALUE IS	124.59826	AT (	381600.00,
3745550.00,	6.68, 6.68,	0.00)	DC	
	4TH HIGHEST VALUE IS	114.29622	AT (	381600.00,
3745625.00,	6.70, 6.70,	0.00)	DC	
	5TH HIGHEST VALUE IS	112.70154	AT (	381600.00,
3745525.00,	6.97, 6.97,	0.00)	DC	
	6TH HIGHEST VALUE IS	98.22180	AT (	381600.00,
3745650.00,	6.77, 6.77,	0.00)	DC	
	7TH HIGHEST VALUE IS	92.35983	AT (	381600.00,
3745500.00,	7.09, 7.09,	0.00)	DC	
	8TH HIGHEST VALUE IS	86.49073	AT (	381625.00,
3745550.00,	6.76, 6.76,	0.00)	DC	
	9TH HIGHEST VALUE IS	85.71729	AT (	381625.00,
3745575.00,	6.59, 6.59,	0.00)	DC	
	10TH HIGHEST VALUE IS	82.00997	AT (	381625.00,
3745525.00,	7.11, 7.11,	0.00)	DC	

```

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

```

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
\*\*\* 10/09/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:14:34

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

\*\*\* THE SUMMARY OF

HIGHEST 1-HR RESULTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN  
\*\*

DATE

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

ALL HIGH 1ST HIGH VALUE IS 6388.69874 ON 12122516: AT (  
381600.00, 3745525.00, 6.97, 6.97, 0.00) DC

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

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Construction HRA  
\*\*\* 10/09/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:14:34

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

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1017 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 747 Calm Hours Identified  
  
A Total of 270 Missing Hours Identified ( 0.62 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 9034 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed  
threshold used 0.50  
ME W187 9034 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in  
AERMET

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

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Operational HRA  
\*\*\* 10/04/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 09:20:05

PAGE 1

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

\*\*\* MODEL SETUP OPTIONS

SUMMARY \*\*\*

-----  
\*\*Model Is Setup For Calculation of Average CONcEntration Values.

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

\*\*Model Uses NO DRY DEPLETION. DRYDPLT = F

\*\*Model Uses NO WET DEPLETION. WETDPLT = F

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 3474 Source(s),  
for Total of 1 Urban Area(s):

Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.

2. Model Accounts for ELEVated Terrain Effects.

3. Use Calms Processing Routine.

4. Use Missing Data Processing Routine.

5. No Exponential Decay.

6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_10

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

\*\*This Run Includes: 3474 Source(s); 13 Source Group(s); and  
1387 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 3474 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with 0 line(s)

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

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

\*\*Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor  
Model Outputs 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) = 10.00 ;  
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 = 23.8 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: KL\_Fenix\_Op.err

\*\*File for Summary of Results: KL\_Fenix\_Op.sum





\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Operational HRA  
 \*\*\* 10/04/19  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 09:20:05

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

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

METEOROLOGICAL DATA \*\*\*

Surface file: P:\300.Environmental\10029 Carson On-Call\Phase 10 -  
 KL Fenix Truck Terminal SP\ Met Version: 16216  
 Profile file: P:\300.Environmental\10029 Carson On-Call\Phase 10 -  
 KL Fenix Truck Terminal SP\  
 Surface format: FREE  
 Profile format: FREE  
 Surface station no.: 23129 Upper air station no.:  
 3190

Name: UNKNOWN Name:  
 UNKNOWN  
 Year: 2012 Year:  
 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0
BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT					
12	01	01	1	01	-5.3	0.094	-9.000	-9.000	-999.	70.	14.3	0.10	
2.68	1.00			1.13	322.	7.9	282.0	2.0					
12	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	
2.68	1.00			0.00	0.	7.9	281.4	2.0					
12	01	01	1	03	-2.5	0.068	-9.000	-9.000	-999.	43.	11.4	0.10	
2.68	1.00			0.74	79.	7.9	280.9	2.0					
12	01	01	1	04	-3.2	0.075	-9.000	-9.000	-999.	49.	11.7	0.10	
2.68	1.00			0.86	137.	7.9	280.9	2.0					
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	
2.68	1.00			0.00	0.	7.9	280.4	2.0					
12	01	01	1	06	-5.2	0.093	-9.000	-9.000	-999.	68.	14.0	0.10	
2.68	1.00			1.11	92.	7.9	279.9	2.0					
12	01	01	1	07	-2.3	0.066	-9.000	-9.000	-999.	41.	11.5	0.10	
2.68	1.00			0.69	67.	7.9	278.8	2.0					
12	01	01	1	08	-1.7	0.060	-9.000	-9.000	-999.	36.	11.4	0.10	
2.68	0.54			0.65	91.	7.9	279.9	2.0					
12	01	01	1	09	36.2	-9.000	-9.000	-9.000	37.	-999.	-99999.0	0.10	
2.68	0.31			0.00	0.	7.9	283.8	2.0					
12	01	01	1	10	108.4	0.139	0.707	0.009	119.	124.	-2.3	0.10	
2.68	0.24			0.92	319.	7.9	287.5	2.0					
12	01	01	1	11	160.5	0.114	1.137	0.005	334.	93.	-1.0	0.10	
2.68	0.21			0.62	23.	7.9	292.5	2.0					
12	01	01	1	12	186.7	0.125	1.473	0.005	623.	105.	-1.0	0.10	
2.68	0.20			0.69	18.	7.9	295.4	2.0					

12	01	01	1	13	186.8	0.130	1.761	0.005	1065.	112.	-1.1	0.10
2.68	0.20				0.74	250.	7.9	297.5	2.0			
12	01	01	1	14	161.7	0.150	1.834	0.005	1387.	139.	-1.9	0.10
2.68	0.21				0.96	347.	7.9	300.4	2.0			
12	01	01	1	15	105.5	0.243	1.633	0.005	1499.	288.	-12.4	0.10
2.68	0.24				2.11	194.	7.9	295.9	2.0			
12	01	01	1	16	32.4	0.211	1.109	0.005	1530.	233.	-26.3	0.10
2.68	0.33				1.98	186.	7.9	295.4	2.0			
12	01	01	1	17	-20.5	0.250	-9.000	-9.000	-999.	300.	69.2	0.10
2.68	0.60				2.81	293.	7.9	291.4	2.0			
12	01	01	1	18	-25.4	0.257	-9.000	-9.000	-999.	313.	72.8	0.10
2.68	1.00				2.90	301.	7.9	288.1	2.0			
12	01	01	1	19	-21.0	0.211	-9.000	-9.000	-999.	233.	49.0	0.10
2.68	1.00				2.40	313.	7.9	286.4	2.0			
12	01	01	1	20	-25.7	0.258	-9.000	-9.000	-999.	315.	73.3	0.10
2.68	1.00				2.91	302.	7.9	286.4	2.0			
12	01	01	1	21	-22.5	0.225	-9.000	-9.000	-999.	256.	55.7	0.10
2.68	1.00				2.55	306.	7.9	285.4	2.0			
12	01	01	1	22	-9.3	0.126	-9.000	-9.000	-999.	111.	19.5	0.10
2.68	1.00				1.48	284.	7.9	285.9	2.0			
12	01	01	1	23	-21.4	0.214	-9.000	-9.000	-999.	237.	50.3	0.10
2.68	1.00				2.43	282.	7.9	285.4	2.0			
12	01	01	1	24	-30.1	0.300	-9.000	-9.000	-999.	394.	98.9	0.10
2.68	1.00				3.36	300.	7.9	284.2	2.0			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	322.	1.13	282.1	99.0	-99.00	-99.00

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

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

\*\*\* THE SUMMARY OF MAXIMUM PERIOD

( 43848 HRS) RESULTS \*\*\*

MICROGRAMS/M\*\*3      \*\* CONC OF PM\_10      IN  
                              \*\*

NETWORK		AVERAGE CONC		RECEPTOR (XR,
GROUP ID		OF TYPE	GRID-ID	
YR, ZELEV, ZHILL, ZFLAG)				
SLINE1	1ST HIGHEST VALUE IS	56.59372	AT (	380625.00,
3745525.00,	7.11, 7.11,	0.00)	DC	
	2ND HIGHEST VALUE IS	55.64143	AT (	380625.00,
3745500.00,	7.18, 9.26,	0.00)	DC	
	3RD HIGHEST VALUE IS	53.71886	AT (	381075.00,
3745425.00,	8.82, 14.82,	0.00)	DC	
	4TH HIGHEST VALUE IS	52.73653	AT (	380625.00,
3745550.00,	6.95, 6.95,	0.00)	DC	
	5TH HIGHEST VALUE IS	51.16022	AT (	380725.00,
3745375.00,	8.29, 8.29,	0.00)	DC	
	6TH HIGHEST VALUE IS	50.97759	AT (	380700.00,
3745375.00,	7.73, 7.73,	0.00)	DC	
	7TH HIGHEST VALUE IS	50.80196	AT (	380750.00,
3745375.00,	8.22, 8.22,	0.00)	DC	
	8TH HIGHEST VALUE IS	50.46870	AT (	380800.00,
3745375.00,	9.42, 9.42,	0.00)	DC	
	9TH HIGHEST VALUE IS	50.44493	AT (	380775.00,
3745375.00,	8.43, 8.43,	0.00)	DC	
	10TH HIGHEST VALUE IS	50.36087	AT (	380650.00,
3745400.00,	5.87, 9.50,	0.00)	DC	
SLINE2	1ST HIGHEST VALUE IS	56.09661	AT (	381175.00,
3745675.00,	8.24, 8.24,	0.00)	DC	
	2ND HIGHEST VALUE IS	52.00322	AT (	380675.00,
3745850.00,	10.24, 10.24,	0.00)	DC	
	3RD HIGHEST VALUE IS	48.16651	AT (	380650.00,
3745850.00,	10.06, 10.06,	0.00)	DC	
	4TH HIGHEST VALUE IS	35.23302	AT (	380625.00,
3745850.00,	9.87, 9.87,	0.00)	DC	
	5TH HIGHEST VALUE IS	22.58627	AT (	380675.00,
3745825.00,	9.23, 11.16,	0.00)	DC	

3745850.00,	6TH HIGHEST VALUE IS	20.13622	AT (	380600.00,
9.86,		0.00)	DC	
3745825.00,	7TH HIGHEST VALUE IS	19.94033	AT (	380650.00,
9.75,		0.00)	DC	
3745825.00,	8TH HIGHEST VALUE IS	16.06024	AT (	380625.00,
9.46,		0.00)	DC	
3745800.00,	9TH HIGHEST VALUE IS	13.05785	AT (	380675.00,
8.79,		0.00)	DC	
3745825.00,	10TH HIGHEST VALUE IS	12.26100	AT (	380600.00,
10.25,		0.00)	DC	

SLINE3 3745400.00,	1ST HIGHEST VALUE IS	50.85930	AT (	381075.00,
8.74,		0.00)	DC	
3745525.00,	2ND HIGHEST VALUE IS	49.71368	AT (	381125.00,
8.48,		0.00)	DC	
3745425.00,	3RD HIGHEST VALUE IS	48.91478	AT (	381075.00,
8.82,		0.00)	DC	
3745550.00,	4TH HIGHEST VALUE IS	35.52071	AT (	381125.00,
8.50,		0.00)	DC	
3745450.00,	5TH HIGHEST VALUE IS	30.15479	AT (	381600.00,
7.26,		0.00)	DC	
3745475.00,	6TH HIGHEST VALUE IS	30.15433	AT (	381600.00,
7.12,		0.00)	DC	
3745500.00,	7TH HIGHEST VALUE IS	29.72148	AT (	381600.00,
7.09,		0.00)	DC	
3745525.00,	8TH HIGHEST VALUE IS	29.14209	AT (	381600.00,
6.97,		0.00)	DC	
3745425.00,	9TH HIGHEST VALUE IS	29.00970	AT (	381600.00,
7.13,		0.00)	DC	
3745550.00,	10TH HIGHEST VALUE IS	28.36546	AT (	381600.00,
6.68,		0.00)	DC	

SLINE4 3745675.00,	1ST HIGHEST VALUE IS	61.38178	AT (	381175.00,
8.24,		0.00)	DC	
3745650.00,	2ND HIGHEST VALUE IS	6.01803	AT (	381600.00,
6.77,		0.00)	DC	
3745650.00,	3RD HIGHEST VALUE IS	5.81557	AT (	381625.00,
2.47,		0.00)	DC	
3745650.00,	4TH HIGHEST VALUE IS	5.79454	AT (	381650.00,
2.35,		0.00)	DC	
3745650.00,	5TH HIGHEST VALUE IS	5.78234	AT (	381675.00,
2.43,		0.00)	DC	
3745650.00,	6TH HIGHEST VALUE IS	5.75997	AT (	381700.00,
2.40,		0.00)	DC	
3745650.00,	7TH HIGHEST VALUE IS	5.73420	AT (	381725.00,
2.40,		0.00)	DC	
3745650.00,	8TH HIGHEST VALUE IS	5.69829	AT (	381750.00,
2.33,		0.00)	DC	
3745650.00,	9TH HIGHEST VALUE IS	5.65570	AT (	381775.00,
2.27,		0.00)	DC	
3745650.00,	10TH HIGHEST VALUE IS	5.64295	AT (	381850.00,
5.62,		0.00)	DC	

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

\*\*\* THE SUMMARY OF MAXIMUM PERIOD

( 43848 HRS) RESULTS \*\*\*

MICROGRAMS/M\*\*3      \*\* CONC OF PM\_10      IN  
                                  \*\*

NETWORK	GROUP ID	AVERAGE CONC	RECEPTOR (XR,
	YR, ZELEV, ZHILL, ZFLAG)	OF TYPE GRID-ID	
SLINE5	1ST HIGHEST VALUE IS	45.72620 AT ( 381075.00,	
	3745425.00, 8.82, 14.82,	0.00) DC	
	2ND HIGHEST VALUE IS	44.66215 AT ( 381125.00,	
	3745550.00, 8.50, 8.50,	0.00) DC	
	3RD HIGHEST VALUE IS	41.95346 AT ( 380950.00,	
	3745225.00, 13.58, 13.58,	0.00) DC	
	4TH HIGHEST VALUE IS	40.19619 AT ( 380925.00,	
	3745075.00, 12.38, 12.38,	0.00) DC	
	5TH HIGHEST VALUE IS	40.00116 AT ( 381075.00,	
	3745400.00, 8.74, 14.82,	0.00) DC	
	6TH HIGHEST VALUE IS	37.55508 AT ( 380925.00,	
	3745100.00, 12.31, 12.31,	0.00) DC	
	7TH HIGHEST VALUE IS	35.89888 AT ( 381125.00,	
	3745525.00, 8.48, 8.48,	0.00) DC	
	8TH HIGHEST VALUE IS	35.50194 AT ( 380950.00,	
	3745250.00, 11.88, 13.85,	0.00) DC	
	9TH HIGHEST VALUE IS	33.58199 AT ( 380925.00,	
	3745125.00, 11.61, 13.01,	0.00) DC	
	10TH HIGHEST VALUE IS	31.71701 AT ( 381175.00,	
	3745675.00, 8.24, 8.24,	0.00) DC	
SLINE6	1ST HIGHEST VALUE IS	61.77731 AT ( 381125.00,	
	3745550.00, 8.50, 8.50,	0.00) DC	
	2ND HIGHEST VALUE IS	31.48554 AT ( 381175.00,	
	3745675.00, 8.24, 8.24,	0.00) DC	
	3RD HIGHEST VALUE IS	27.08836 AT ( 381125.00,	
	3745525.00, 8.48, 8.48,	0.00) DC	
	4TH HIGHEST VALUE IS	3.47466 AT ( 381075.00,	
	3745425.00, 8.82, 14.82,	0.00) DC	
	5TH HIGHEST VALUE IS	2.87925 AT ( 381075.00,	
	3745400.00, 8.74, 14.82,	0.00) DC	

3745450.00,	6TH HIGHEST VALUE IS	2.56697 AT (	380950.00,
8.68,	14.75,	0.00) DC	
3746600.00,	7TH HIGHEST VALUE IS	2.50951 AT (	381150.00,
8.75,	8.75,	0.00) DC	
3745650.00,	8TH HIGHEST VALUE IS	2.49243 AT (	381600.00,
6.77,	6.77,	0.00) DC	
3746600.00,	9TH HIGHEST VALUE IS	2.46211 AT (	381250.00,
8.93,	8.93,	0.00) DC	
3745625.00,	10TH HIGHEST VALUE IS	2.45899 AT (	381600.00,
6.70,	6.70,	0.00) DC	

SLINE7 3745425.00,	1ST HIGHEST VALUE IS	73.74066 AT (	381075.00,
8.82,	14.82,	0.00) DC	
3745400.00,	2ND HIGHEST VALUE IS	72.26287 AT (	380950.00,
8.70,	14.75,	0.00) DC	
3745400.00,	3RD HIGHEST VALUE IS	72.26287 AT (	380950.00,
8.70,	14.75,	0.00) DC	
3745425.00,	4TH HIGHEST VALUE IS	71.47872 AT (	380950.00,
8.74,	14.75,	0.00) DC	
3745450.00,	5TH HIGHEST VALUE IS	67.96074 AT (	380950.00,
8.68,	14.75,	0.00) DC	
3745400.00,	6TH HIGHEST VALUE IS	62.14113 AT (	381075.00,
8.74,	14.82,	0.00) DC	
3745525.00,	7TH HIGHEST VALUE IS	57.69588 AT (	381125.00,
8.48,	8.48,	0.00) DC	
3745375.00,	8TH HIGHEST VALUE IS	46.70598 AT (	380950.00,
9.38,	14.58,	0.00) DC	
3745550.00,	9TH HIGHEST VALUE IS	43.15487 AT (	381125.00,
8.50,	8.50,	0.00) DC	
3745425.00,	10TH HIGHEST VALUE IS	41.38271 AT (	380925.00,
9.15,	9.15,	0.00) DC	

SLINE8 3745225.00,	1ST HIGHEST VALUE IS	65.48838 AT (	380950.00,
13.58,	13.58,	0.00) DC	
3745075.00,	2ND HIGHEST VALUE IS	59.21645 AT (	380925.00,
12.38,	12.38,	0.00) DC	
3745675.00,	3RD HIGHEST VALUE IS	58.05959 AT (	381175.00,
8.24,	8.24,	0.00) DC	
3745125.00,	4TH HIGHEST VALUE IS	56.44310 AT (	380925.00,
11.61,	13.01,	0.00) DC	
3745250.00,	5TH HIGHEST VALUE IS	56.37112 AT (	380950.00,
11.88,	13.85,	0.00) DC	
3745100.00,	6TH HIGHEST VALUE IS	55.75974 AT (	380925.00,
12.31,	12.31,	0.00) DC	
3745150.00,	7TH HIGHEST VALUE IS	48.13284 AT (	380925.00,
11.31,	13.01,	0.00) DC	
3745275.00,	8TH HIGHEST VALUE IS	46.44883 AT (	380950.00,
10.77,	14.10,	0.00) DC	
3745175.00,	9TH HIGHEST VALUE IS	40.31077 AT (	380925.00,
11.03,	13.37,	0.00) DC	
3745300.00,	10TH HIGHEST VALUE IS	38.77236 AT (	380950.00,
10.19,	14.35,	0.00) DC	

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

\*\*\* THE SUMMARY OF MAXIMUM PERIOD

( 43848 HRS) RESULTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN  
\*\*

NETWORK  
GROUP ID AVERAGE CONC RECEPTOR (XR,  
YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID  
- - - - -  
- - - - -  
SLINE9 1ST HIGHEST VALUE IS 34.75276 AT ( 381125.00,  
3745550.00, 8.50, 8.50, 0.00) DC  
2ND HIGHEST VALUE IS 29.75265 AT ( 381175.00,  
3745675.00, 8.24, 8.24, 0.00) DC  
3RD HIGHEST VALUE IS 28.13609 AT ( 381125.00,  
3745525.00, 8.48, 8.48, 0.00) DC  
4TH HIGHEST VALUE IS 11.77836 AT ( 381600.00,  
3745525.00, 6.97, 6.97, 0.00) DC  
5TH HIGHEST VALUE IS 11.58072 AT ( 381600.00,  
3745500.00, 7.09, 7.09, 0.00) DC  
6TH HIGHEST VALUE IS 11.44381 AT ( 381600.00,  
3745550.00, 6.68, 6.68, 0.00) DC  
7TH HIGHEST VALUE IS 10.91558 AT ( 381600.00,  
3745475.00, 7.12, 7.12, 0.00) DC  
8TH HIGHEST VALUE IS 10.72239 AT ( 381600.00,  
3745575.00, 6.91, 6.91, 0.00) DC  
9TH HIGHEST VALUE IS 9.96073 AT ( 381600.00,  
3745450.00, 7.26, 7.26, 0.00) DC  
10TH HIGHEST VALUE IS 9.69559 AT ( 381625.00,  
3745500.00, 7.52, 7.52, 0.00) DC  
VOL1 1ST HIGHEST VALUE IS 35.51123 AT ( 381600.00,  
3745525.00, 6.97, 6.97, 0.00) DC  
2ND HIGHEST VALUE IS 34.51918 AT ( 381600.00,  
3745550.00, 6.68, 6.68, 0.00) DC  
3RD HIGHEST VALUE IS 31.75037 AT ( 381600.00,  
3745500.00, 7.09, 7.09, 0.00) DC  
4TH HIGHEST VALUE IS 29.80921 AT ( 381600.00,  
3745575.00, 6.91, 6.91, 0.00) DC  
5TH HIGHEST VALUE IS 26.33091 AT ( 381625.00,  
3745525.00, 7.11, 7.11, 0.00) DC



3745475.00,	6TH HIGHEST VALUE IS	25.70171	AT (	381600.00,
7.12,		0.00)	DC	
3745500.00,	7TH HIGHEST VALUE IS	25.25956	AT (	381625.00,
7.52,		0.00)	DC	
3745550.00,	8TH HIGHEST VALUE IS	24.70617	AT (	381625.00,
6.76,		0.00)	DC	
3745600.00,	9TH HIGHEST VALUE IS	24.29506	AT (	381600.00,
6.64,		0.00)	DC	
3745475.00,	10TH HIGHEST VALUE IS	21.99155	AT (	381625.00,
7.42,		0.00)	DC	

VOL2	1ST HIGHEST VALUE IS	423.35126	AT (	381125.00,
3745550.00,		0.00)	DC	
	2ND HIGHEST VALUE IS	291.81182	AT (	381125.00,
3745525.00,		0.00)	DC	
	3RD HIGHEST VALUE IS	41.49437	AT (	381175.00,
3745675.00,		0.00)	DC	
	4TH HIGHEST VALUE IS	16.58068	AT (	381075.00,
3745425.00,		0.00)	DC	
	5TH HIGHEST VALUE IS	12.51829	AT (	381075.00,
3745400.00,		0.00)	DC	
	6TH HIGHEST VALUE IS	7.66972	AT (	380950.00,
3745450.00,		0.00)	DC	
	7TH HIGHEST VALUE IS	6.83695	AT (	380950.00,
3745425.00,		0.00)	DC	
	8TH HIGHEST VALUE IS	6.42767	AT (	380925.00,
3745450.00,		0.00)	DC	
	9TH HIGHEST VALUE IS	6.03962	AT (	380950.00,
3745400.00,		0.00)	DC	
	10TH HIGHEST VALUE IS	6.03962	AT (	380950.00,
3745400.00,		0.00)	DC	

VOL3	1ST HIGHEST VALUE IS	268.35404	AT (	381175.00,
3745675.00,		0.00)	DC	
	2ND HIGHEST VALUE IS	30.93590	AT (	381125.00,
3745550.00,		0.00)	DC	
	3RD HIGHEST VALUE IS	21.29074	AT (	381125.00,
3745525.00,		0.00)	DC	
	4TH HIGHEST VALUE IS	6.20397	AT (	381075.00,
3745425.00,		0.00)	DC	
	5TH HIGHEST VALUE IS	5.22142	AT (	381075.00,
3745400.00,		0.00)	DC	
	6TH HIGHEST VALUE IS	4.54723	AT (	381600.00,
3745475.00,		0.00)	DC	
	7TH HIGHEST VALUE IS	4.54158	AT (	381600.00,
3745450.00,		0.00)	DC	
	8TH HIGHEST VALUE IS	4.46903	AT (	381600.00,
3745500.00,		0.00)	DC	
	9TH HIGHEST VALUE IS	4.44650	AT (	381600.00,
3745425.00,		0.00)	DC	
	10TH HIGHEST VALUE IS	4.31285	AT (	381600.00,
3745525.00,		0.00)	DC	

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
 \*\*\* 09:20:05

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

\*\*\* THE SUMMARY OF MAXIMUM PERIOD

( 43848 HRS) RESULTS \*\*\*

MICROGRAMS/M\*\*3      \*\* CONC OF PM\_10      IN  
                              \*\*

NETWORK		AVERAGE CONC		RECEPTOR (XR,
GROUP ID	YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	727.56189	AT (	381125.00,
3745550.00,	8.50, 8.50,	0.00)	DC	
	2ND HIGHEST VALUE IS	601.92478	AT (	381175.00,
3745675.00,	8.24, 8.24,	0.00)	DC	
	3RD HIGHEST VALUE IS	573.95892	AT (	381125.00,
3745525.00,	8.48, 8.48,	0.00)	DC	
	4TH HIGHEST VALUE IS	273.66241	AT (	381075.00,
3745425.00,	8.82, 14.82,	0.00)	DC	
	5TH HIGHEST VALUE IS	243.50685	AT (	381075.00,
3745400.00,	8.74, 14.82,	0.00)	DC	
	6TH HIGHEST VALUE IS	177.27421	AT (	380950.00,
3745400.00,	8.70, 14.75,	0.00)	DC	
	7TH HIGHEST VALUE IS	177.27421	AT (	380950.00,
3745400.00,	8.70, 14.75,	0.00)	DC	
	8TH HIGHEST VALUE IS	162.75432	AT (	380950.00,
3745375.00,	9.38, 14.58,	0.00)	DC	
	9TH HIGHEST VALUE IS	157.19013	AT (	380950.00,
3745425.00,	8.74, 14.75,	0.00)	DC	
	10TH HIGHEST VALUE IS	145.08031	AT (	380950.00,
3745450.00,	8.68, 14.75,	0.00)	DC	

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

\*\*\* AERMOD - VERSION 18081 \*\*\*      \*\*\* KL Fenix Operational HRA  
 \*\*\* 10/04/19  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
 \*\*\* 09:20:05

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

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

\*\* CONC OF PM<sub>10</sub> IN  
 MICROGRAMS/M<sup>3</sup>

				DATE	
NETWORK					
GROUP ID				AVERAGE CONC	(YYMMDDHH)
RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)			OF TYPE	GRID-ID
-----					
-----					
SLINE1	HIGH	1ST HIGH VALUE IS	554.02906	ON 12071106:	AT (
380625.00,	3745450.00,	7.71,	9.50,	0.00)	DC
SLINE2	HIGH	1ST HIGH VALUE IS	506.68431	ON 12071106:	AT (
381175.00,	3745675.00,	8.24,	8.24,	0.00)	DC
SLINE3	HIGH	1ST HIGH VALUE IS	609.13834	ON 12071106:	AT (
381075.00,	3745400.00,	8.74,	14.82,	0.00)	DC
SLINE4	HIGH	1ST HIGH VALUE IS	574.49405	ON 12071106:	AT (
381175.00,	3745675.00,	8.24,	8.24,	0.00)	DC
SLINE5	HIGH	1ST HIGH VALUE IS	556.66314	ON 13041207:	AT (
380925.00,	3745075.00,	12.38,	12.38,	0.00)	DC
SLINE6	HIGH	1ST HIGH VALUE IS	753.22651	ON 12071106:	AT (
381125.00,	3745550.00,	8.50,	8.50,	0.00)	DC
SLINE7	HIGH	1ST HIGH VALUE IS	722.53718	ON 12071106:	AT (
381075.00,	3745425.00,	8.82,	14.82,	0.00)	DC
SLINE8	HIGH	1ST HIGH VALUE IS	602.07505	ON 12071106:	AT (
380925.00,	3745075.00,	12.38,	12.38,	0.00)	DC
SLINE9	HIGH	1ST HIGH VALUE IS	735.74255	ON 13041207:	AT (
381125.00,	3745525.00,	8.48,	8.48,	0.00)	DC
VOL1	HIGH	1ST HIGH VALUE IS	686.11548	ON 12122516:	AT (
381600.00,	3745525.00,	6.97,	6.97,	0.00)	DC
VOL2	HIGH	1ST HIGH VALUE IS	10804.80218	ON 13041207:	AT (
381125.00,	3745525.00,	8.48,	8.48,	0.00)	DC

VOL3        HIGH    1ST HIGH VALUE IS    4564.07639    ON 12020617: AT (   
381175.00,   3745675.00,        8.24,        8.24,        0.00)    DC

ALL        HIGH    1ST HIGH VALUE IS    12548.97861    ON 13041207: AT (   
381125.00,   3745525.00,        8.48,        8.48,        0.00)    DC

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

\*\*\* AERMOD - VERSION 18081 \*\*\* \*\*\* KL Fenix Operational HRA  
\*\*\* 10/04/19  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 09:20:05

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

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 1017 Informational Message(s)  
  
A Total of 43848 Hours Were Processed  
  
A Total of 747 Calm Hours Identified  
  
A Total of 270 Missing Hours Identified ( 0.62 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 300001 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed  
threshold used 0.50  
ME W187 300001 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in  
AERMET

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 1

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 1  
2<9 Years Bin: 0  
2<16 Years Bin: 0  
16<30 Years Bin: 0  
16 to 70 Years Bin: 0

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

**\*\*Worker Adjustment Factors\*\***

Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***  
3rd Trimester to 16 years: OFF  
16 years to 70 years: ON

\*\*\*\*\*  
**SOIL & DERMAL PATHWAY SETTINGS**

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed

\*\*\*\*\*  
**TIER 2 SETTINGS**

Tier2 adjustments were used in this assessment. Please see the input file for details.  
Tier2 - What was changed: ED or start age changed|  
Calculating cancer risk  
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX CONSTRUCTION HRA\hra\KLFENIX\_CON\_CANCER\_CancerRisk.csv  
Cancer risk total by receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX CONSTRUCTION HRA\hra\KLFENIX\_CON\_CANCER\_CancerRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: NCChronic  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

\*\*Exposure duration are only adjusted for cancer assessments\*\*

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

\*\*\*\*\*

## SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed



\*\*\*\*\*

## TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX CONSTRUCTION HRA\hra\KLFENIX\_CON\_CHRONIC\_NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX CONSTRUCTION HRA\hra\KLFENIX\_CON\_CHRONIC\_NCChronicRiskSumByRec.csv

HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 1

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 1  
2<9 Years Bin: 0  
2<16 Years Bin: 0  
16<30 Years Bin: 0  
16 to 70 Years Bin: 0

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

**\*\*Worker Adjustment Factors\*\***

Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***  
3rd Trimester to 16 years: OFF  
16 years to 70 years: ON

\*\*\*\*\*  
**SOIL & DERMAL PATHWAY SETTINGS**

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed

\*\*\*\*\*  
**TIER 2 SETTINGS**

Tier2 adjustments were used in this assessment. Please see the input file for details.  
Tier2 - What was changed: ED or start age changed|  
Calculating cancer risk  
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX  
CONSTRUCTION HRA\hra\KLFENIX\_CON\_CANCER\_Tier4I\_CancerRisk.csv  
Cancer risk total by receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX CONSTRUCTION  
HRA\hra\KLFENIX\_CON\_CANCER\_Tier4I\_CancerRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: NCChronic  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

\*\*Exposure duration are only adjusted for cancer assessments\*\*

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

\*\*\*\*\*

## SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed

\*\*\*\*\*

## TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|

Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX CONSTRUCTION HRA\hra\KLFENIX\_CON\_CHRONIC\_Tier4I\_NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX CONSTRUCTION HRA\hra\KLFENIX\_CON\_CHRONIC\_Tier4I\_NCChronicRiskSumByRec.csv

HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 30

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 2  
2<9 Years Bin: 0  
2<16 Years Bin: 14  
16<30 Years Bin: 14  
16 to 70 Years Bin: 0

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

**\*\*Worker Adjustment Factors\*\***  
Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***  
3rd Trimester to 16 years: OFF  
16 years to 70 years: ON

\*\*\*\*\*  
**SOIL & DERMAL PATHWAY SETTINGS**

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed

\*\*\*\*\*  
**TIER 2 SETTINGS**  
Tier2 not used.

\*\*\*\*\*

Calculating cancer risk  
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX  
OPERATIONAL HRA\hra\KLFENIX\_OP\_CANCER\_CancerRisk.csv  
Cancer risk total by receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX OPERATIONAL  
HRA\hra\KLFENIX\_OP\_CANCER\_CancerRiskSumByRec.csv  
HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: NCChronic  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

\*\*Exposure duration are only adjusted for cancer assessments\*\*

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

\*\*Worker Adjustment Factors\*\*

Worker adjustment factors enabled: NO

\*\*Fraction at time at home\*\*

NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

\*\*\*\*\*

## SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed



\*\*\*\*\*

## TIER 2 SETTINGS

Tier2 not used.

\*\*\*\*\*

## Calculating chronic risk

Chronic risk breakdown by pollutant and receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX OPERATIONAL HRA\hra\KLFENIX\_OP\_CHRONIC\_NCChronicRisk.csv

Chronic risk total by receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX OPERATIONAL HRA\hra\KLFENIX\_OP\_CHRONIC\_NCChronicRiskSumByRec.csv

HRA ran successfully

GLCs loaded successfully  
Pollutants loaded successfully  
Pathway receptors loaded successfully  
\*\*\*\*\*

## RISK SCENARIO SETTINGS

Receptor Type: Resident  
Scenario: Cancer  
Calculation Method: Derived

\*\*\*\*\*

## EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25  
Total Exposure Duration: 70

Exposure Duration Bin Distribution  
3rd Trimester Bin: 0.25  
0<2 Years Bin: 2  
2<9 Years Bin: 0  
2<16 Years Bin: 14  
16<30 Years Bin: 0  
16 to 70 Years Bin: 54

\*\*\*\*\*

## PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True  
Soil: True  
Dermal: True  
Mother's milk: True  
Water: False  
Fish: False  
Homegrown crops: False  
Beef: False  
Dairy: False  
Pig: False  
Chicken: False  
Egg: False

\*\*\*\*\*

## INHALATION

Daily breathing rate: LongTerm24HR

**\*\*Worker Adjustment Factors\*\***  
Worker adjustment factors enabled: NO

**\*\*Fraction at time at home\*\***  
3rd Trimester to 16 years: OFF  
16 years to 70 years: OFF

\*\*\*\*\*  
**SOIL & DERMAL PATHWAY SETTINGS**

Deposition rate (m/s): 0.05  
Soil mixing depth (m): 0.01  
Dermal climate: Mixed

\*\*\*\*\*  
**TIER 2 SETTINGS**  
Tier2 not used.

\*\*\*\*\*

Calculating cancer risk  
Cancer risk breakdown by pollutant and receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX OPERATIONAL HRA\hra\KLFENIX\_OP\_CANCER\_70YEAR\_CancerRisk.csv  
Cancer risk total by receptor saved to: C:\Users\jreed\Desktop\HARP2\KL FENIX OPERATIONAL HRA\hra\KLFENIX\_OP\_CANCER\_70YEAR\_CancerRiskSumByRec.csv  
HRA ran successfully