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# **Ethanac and Barnett Warehouse**

## **MOBILE SOURCE HEALTH RISK ASSESSMENT**

### **CITY OF MENIFEE**

PREPARED BY:

Haseeb Qureshi  
hqureshi@urbanxroads.com

Michael Tirohn  
mtirohn@urbanxroads.com

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## **LIST OF ABBREVIATED TERMS**

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard Assessment
PM <sub>10</sub>	Particulate Matter 10 microns in diameter or less
Project	Ethanac and Barnett Warehouse
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TA	Traffic Analysis
TRU	Transport Refrigeration Unit
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

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## EXECUTIVE SUMMARY

This report evaluates the potential mobile-source emissions health risk impacts associated with the development of the proposed Project. More specifically, potential health risk impacts that could result from exposure to Toxic Air Contaminants (TACs), in this case, diesel particulate matter (DPM) generated by heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project health risks.

The results of the health risk assessment from Project-generated DPM emissions are provided in Table ES-1, ES-2, and ES-3, presented subsequently.

### CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R8 which is located approximately 1,092 feet south the Project site at the planned DR Horton residential project. R8 is placed in the private outdoor living area (backyard) facing the Project site. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 0.58 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

### OPERATIONAL IMPACTS

#### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R8 which is located approximately 1,092 feet south of the Project site the planned DR Horton residential project. R8 is placed in the private outdoor living area (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 0.10 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated on Exhibit 2-D.

Worker Exposure Scenario<sup>1</sup>:

The worker receptor land use with the greatest potential exposure to Project operational-source DPM emissions is Location R7, which represents the potential worker receptor approximately 747 feet northeast of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.05 in one million which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on California Air Resources Board (CARB) and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning Toxic Air Contaminant (TAC) emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

A one-quarter mile radius, or 1,320 feet, is commonly utilized for identifying sensitive receptors, such as schools, that may be impacted by a proposed project. This radius is more robust than, and therefore provides a more health protective scenario for evaluation than the 1,000-foot impact radius identified above.

There are no schools within ¼ mile of the Project site. The nearest school is Romoland Elementary School, which is located approximately 6,800 feet northeast of the Project site. Because there is no reasonable potential that TAC emissions would cause significant health impacts at distances of more than ¼ mile from the air pollution source, there would be no significant impacts that would occur to any schools in the vicinity of the Project.

**CONSTRUCTION AND OPERATIONAL IMPACTS**

The land use with the greatest potential increased cancer risk due to exposure to Project construction-source and operational-source DPM emissions is Location R8. At this location, the maximum incremental cancer risk attributable to Project construction and operational DPM

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1 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.



source emissions is estimated at 0.63 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

**TABLE ES-1: SUMMARY OF CONSTRUCTION CANCER AND NON-CANCER RISKS**

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
0.92 Year Exposure	Maximum Exposed Sensitive Receptor	0.58	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO

**TABLE ES-2: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS**

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	0.10	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.05	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	≤0.01	1.0	NO

**TABLE ES-3: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS**

<b>Time Period</b>	<b>Location</b>	<b>Maximum Lifetime Cancer Risk (Risk per Million)</b>	<b>Significance Threshold (Risk per Million)</b>	<b>Exceeds Significance Threshold</b>
30 Year Exposure	Maximum Exposed Sensitive Receptor	0.63	10	NO
<b>Time Period</b>	<b>Location</b>	<b>Maximum Hazard Index</b>	<b>Significance Threshold</b>	<b>Exceeds Significance Threshold</b>
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO

# 1 INTRODUCTION

The South Coast Air Quality Management District (SCAQMD) typically issues a comment letter on the Notice of Preparation of a CEQA Document. Per the SCAQMD's typical comment letter, if a proposed Project is expected to generate/attract diesel trucks, which emit diesel particulate matter (DPM) or other Toxic Air Contaminants (TACs), preparation of a HRA is necessary. This document serves to meet the SCAQMD's request for preparation of a HRA. This HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2) and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to TAC exposure from a project such as the proposed Project. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

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

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

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

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index less than one (1.0) means that adverse health effects are not expected. In this HRA, non-carcinogenic exposures of less than 1.0 are considered less-than-significant. Both the cancer risk and non-carcinogenic risk thresholds are applied to the nearest sensitive receptors below.

## **1.1 SITE LOCATION**

The proposed Project is located on the southwest corner of Ethanac Road and Barnett Road in the City of Menifee, as shown on Exhibit 1-A.

## **1.2 PROJECT DESCRIPTION**

The Project is proposed to consist of two industrial buildings totaling 251,912-square-feet (sf). This analysis assumes up to 25,191-sf manufacturing use (10% of the total industrial building sf) and 226,721-sf of warehouse use (90% of industrial building). The site plan for the proposed Project is shown on Exhibit 1-B.

**EXHIBIT 1-A: LOCATION MAP**

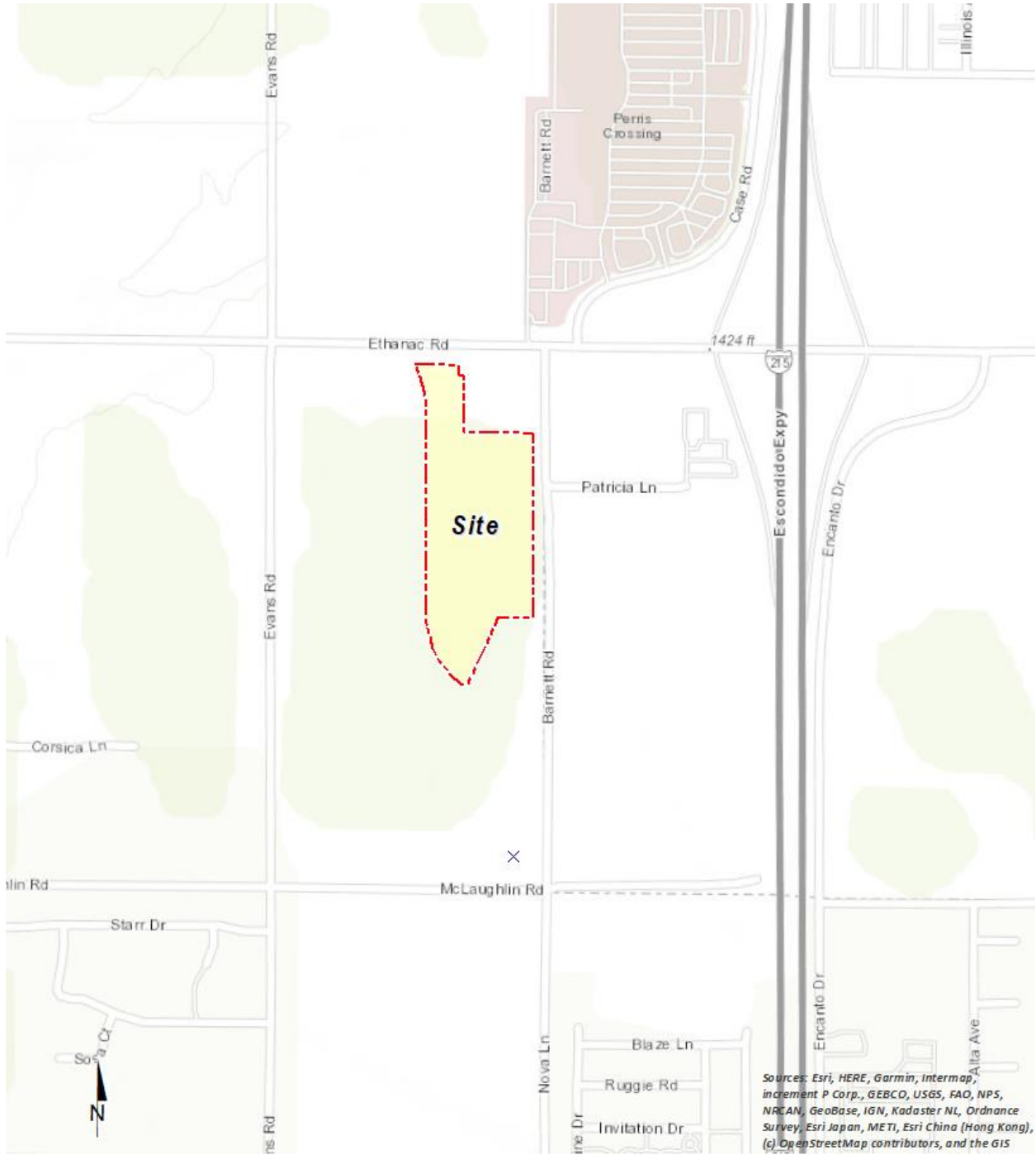
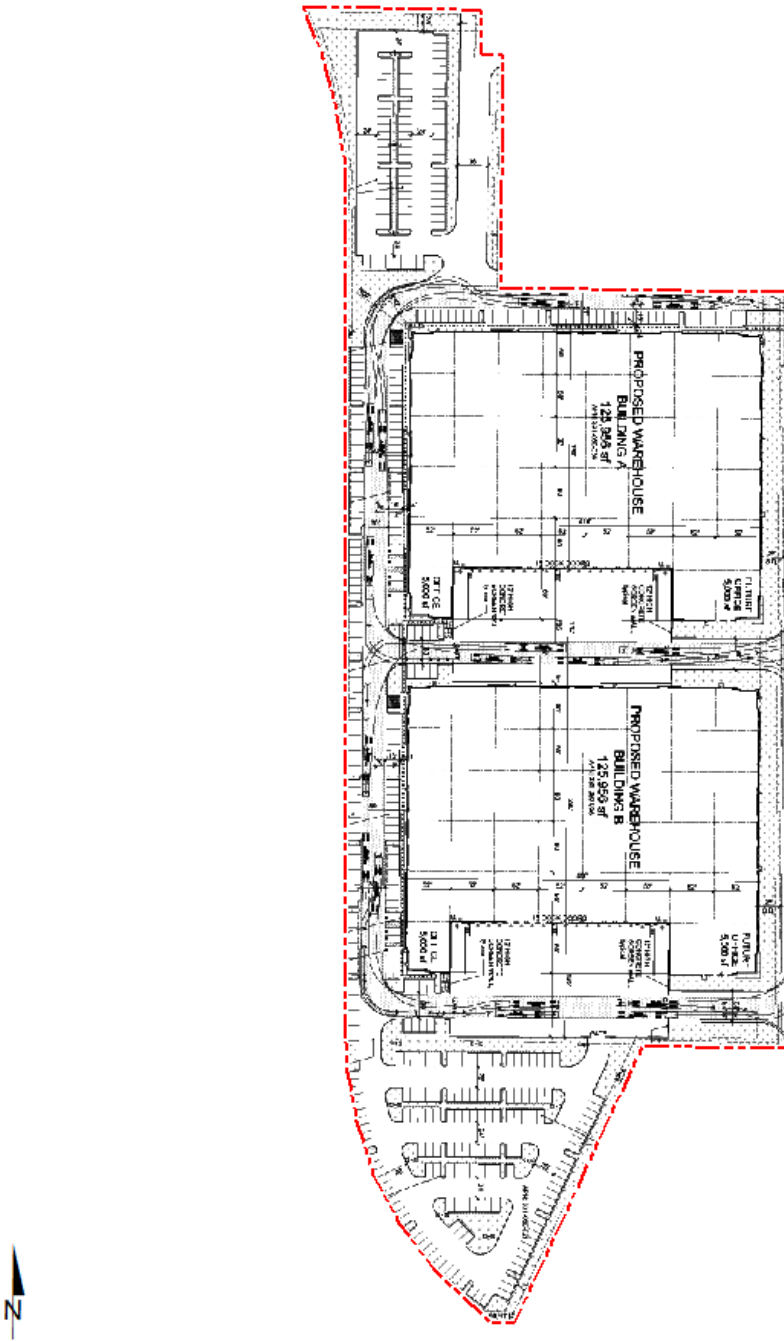


EXHIBIT 1-B: SITE PLAN



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## 2 BACKGROUND

### 2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

This HRA is based on SCAQMD guidelines to produce conservative estimates of human health risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per  $\mu\text{g}/\text{m}^3$  is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95<sup>th</sup> percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body (95% higher than the average population).
- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative.<sup>2</sup> The California Air Resources Board (CARB's) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

### 2.2 CONSTRUCTION HEALTH RISK ASSESSMENT

#### 2.2.1 EMISSIONS CALCULATIONS

The emissions calculations for the construction HRA component are based on an assumed mix of construction equipment and hauling activity as presented in the *Ethanac and Barnett Warehouse Air Quality Impact Analysis* ("technical study") prepared by Urban Crossroads, Inc. (4).

Construction related DPM emissions are expected to occur primarily as a function of heavy-duty construction equipment that would be operating on-site.

As discussed in the technical study, the Project would result in approximately 240 total working-days of construction activity. The construction duration by phase is shown on Table 2-1. A detailed summary of construction equipment assumptions by phase is provided at Table 2-2. The CalEEMod emissions outputs are presented in Appendix 2.1. The modeled emission sources for construction activity are illustrated on Exhibit 2-A.

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<sup>2</sup> Although the Project is required to comply with ARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.



**TABLE 2-1: CONSTRUCTION DURATION**

Construction Activity	Start Date	End Date	Days
Site Preparation	09/05/2023	09/18/2023	10
Grading	09/19/2023	10/30/2023	30
Building Construction	10/31/2023	08/05/2024	200
Paving	07/09/2024	08/05/2024	20
Architectural Coating	06/11/2024	08/05/2024	40


**TABLE 2-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS**

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

**EXHIBIT 2-A: MODELED CONSTRUCTION EMISSION SOURCES**



**LEGEND:**

 Construction Activity

## 2.3 OPERATIONAL HEALTH RISK ASSESSMENT

### 2.3.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter less than 10 $\mu$ m in diameter (PM<sub>10</sub>) generated with the 2021 version of the Emission FACTor model (EMFAC) developed by the CARB. EMFAC 2021 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (5). The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2021. Emission factors calculated using EMFAC 2021 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM<sub>10</sub> emission factors were generated by running EMFAC 2021 in EMFAC Mode for vehicles in the Riverside County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-3. As a conservative measure, a 2024 EMFAC 2021 run was conducted and a static 2024 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2024 emission factors would overstate potential impacts since this approach assumes that emission factors remain “static” and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2024. Additionally, based on EMFAC 2021, Light-Heavy-Duty Trucks are comprised of 57.0% diesel, Medium-Heavy-Duty Trucks are comprised of 91.3% diesel, and Heavy-Heavy-Duty Trucks are comprised of 95.2% diesel. Trucks fueled by diesel are accounted for by these percentages accordingly in the emissions factor generation. Appendix 2.2 includes additional details on the emissions estimates from EMFAC.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM<sub>10</sub> emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (6):

$$\text{Emissions}_{\text{SpeedA}} \text{ (g/s)} = \text{EF}_{\text{RunExhaust}} \text{ (g/VMT)} * \text{Distance (VMT/trip)} * \text{Number of Trips (trips/day)} / \text{seconds per day}$$

Where:

$\text{Emissions}_{\text{SpeedA}}$  (g/s): Vehicle emissions at a given speed A;

$\text{EF}_{\text{RunExhaust}}$  (g/VMT): EMFAC running exhaust PM<sub>10</sub> emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM<sub>10</sub> emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM<sub>10</sub> emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (6):

$$\text{Emissions}_{\text{idle}} \text{ (g/s)} = \text{EF}_{\text{idle}} \text{ (g/hr)} * \text{Number of Trips (trips/day)} * \text{Idling Time (min/trip)} * 60 \text{ minutes per hour} / \text{seconds per day}$$

Where:

$\text{Emissions}_{\text{idle}}$  (g/s): Vehicle emissions during idling;

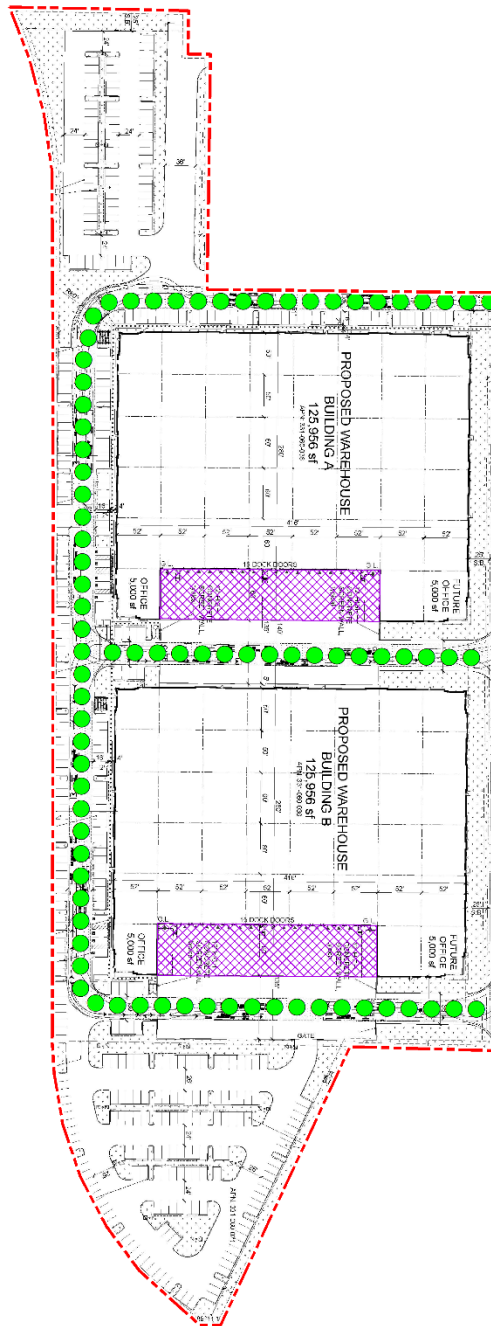
$\text{EF}_{\text{idle}}$  (g/s): EMFAC idle exhaust PM<sub>10</sub> emission factor.

**TABLE 2-3: 2024 WEIGHTED AVERAGE DPM EMISSIONS FACTORS**

Speed	Weighted Average
0 (idling)	0.08845 (g/idle-hr)
5	0.02395 (g/s)
25	0.00994 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix 2.3. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-4. The modeled emission sources are illustrated on Exhibit 2-B for on-site sources and Exhibit 2-C for off-site sources. The modeling domain is limited to the Project’s primary truck route and includes off-site sources in the study area for more than ¼ mile. This modeling domain is more inclusive and conservative than using only a ¼ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a ¼ mile of the primary source of emissions (1) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).

EXHIBIT 2-B: MODELED ON-SITE EMISSION SOURCES



LEGEND:

- Site Boundary
- Loading Dock Activity
- Truck Movements



**EXHIBIT 2-C: MODELED OFF-SITE EMISSION SOURCES**



**LEGEND:**

- Site Boundary
- Truck Movements

**TABLE 2-4: DPM EMISSIONS FROM PROJECT TRUCKS (2024 ANALYSIS YEAR)**

Truck Emission Rates						
Source	Trucks Per Day	VMT <sup>a</sup> (miles/day)	Truck Emission Rate <sup>b</sup> (grams/mile)	Truck Emission Rate <sup>b</sup> (grams/idle-hour)	Daily Truck Emissions <sup>c</sup> (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling - Building A	35			0.0885	0.77	8.958E-06
On-Site Idling - Building B	35			0.0885	0.77	8.958E-06
On-Site Travel 1	140	46.85	0.0239		1.12	1.298E-05
On-Site Travel 2	140	12.26	0.0239		0.29	3.397E-06
Off-Site Travel - Barnett Road 30% Inbound/Outbound	42	3.29	0.0099		0.03	3.785E-07
Off-Site Travel - Barnett Road 70% Inbound/Outbound	98	7.85	0.0099		0.08	9.028E-07
Off-Site Travel - Barnett Road 100% Inbound/Outbound	140	10.73	0.0099		0.11	1.234E-06
Off-Site Travel - Ethanac Road 100% Inbound/Outbound	140	41.61	0.0099		0.41	4.786E-06

<sup>a</sup> Vehicle miles traveled are for modeled truck route only.

<sup>b</sup> Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

<sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

On-site truck idling was estimated to occur as trucks enter and travel through the Project site. Although the Project’s diesel-fueled truck and equipment operators will be required by State law to comply with CARB’s idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions be calculated assuming 15 minutes of truck idling (7), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis calculates truck idling at 15 minutes, consistent with SCAQMD’s recommendation.

The Project is expected to generate a total of approximately 507 vehicular trip-ends (actual vehicles) per day (254 vehicles inbound + 254 vehicles outbound) which includes 368 two-way passenger car trip-ends (184 passenger cars inbound + 184 passenger cars outbound) and 140 two-way truck trip-ends per day (70 trucks inbound + 70 trucks outbound) (8).

## 2.4 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2). SCAQMD recommends using the Environmental Protection Agency’s (U.S. EPA’s) AERMOD model. For purposes of this analysis, the Lakes AERMOD View (Version 11.0.0) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the U.S. EPA’s latest AERMOD Version 22112 (9).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA’s haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project’s modeled sources would result in a release height of 3.49 meters, and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

SCAQMD-recommended model parameters are presented in Table 2-5 (10). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD’s Perris Valley monitoring station was used to represent local weather conditions and prevailing winds (10).

**TABLE 2-5: AERMOD MODEL PARAMETERS**

Dispersion Coefficient (Urban/Rural)	Urban (Population 2,189,641)
Terrain (Flat/Elevated)	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project site’s vicinity. The AERMOD dispersion model summary output files for the



proposed Project are presented in Appendix 2.3. Modeled sensitive receptors were placed at residential and non-residential locations.

Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of the properties containing these uses because the human receptors (residents and workers) spend a majority of their time at the residence or in the workplace’s building, and not on the property line. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residents and workers over a period of 30 or 25 years of exposure, respectively. Notwithstanding, as a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site.

For purposes of this HRA, receptors include both residential and non-residential (worker) land uses in the vicinity of the Project. These receptors are included in the HRA since residents and workers may be exposed at these locations over a long-term duration of 30 and 25 years, respectively. This methodology is consistent with SCAQMD and OEHHA recommended guidance.

Any impacts to residents or workers located further away from the Project site than the modeled residential and workers would have a lesser impact than what has already been disclosed in the HRA at the MEIR and MEIW because concentrations dissipate with distance.

Consistent with SCAQMD modeling guidance, all receptors were set to existing elevation height so that only ground-level concentrations are analyzed (11). United States Geological Survey (USGS) Digital Elevation Model (DEM) terrain data based on a 7.5-minute topographic quadrangle map series using AERMAP was utilized in the HRA modeling to set elevations (12).

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-6 through 2-8 summarize the Exposure Parameters for Residents and Workers based on 2015 OEHHA Guidelines. Appendix 2.4 includes the detailed risk calculation.

**TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (CONSTRUCTION ACTIVITY)**

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
0 to 2	1,090	10	0.92	1.0	260	8

**TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)**

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

**TABLE 2-8: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)**

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

## 2.5 CARCINOGENIC CHEMICAL RISK

The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than 10 in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2), for purposes of this analysis, 10 in one million is used as the cancer risk threshold for the proposed Project.

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)<sup>-1</sup> to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

$$DOSE_{air} = (C_{air} \times [BR/BW] \times A \times EF) \times (1 \times 10^{-6})$$

Where:

$$DOSE_{air} = \text{chronic daily intake (mg/kg/day)}$$

C <sub>air</sub>	=	concentration of contaminant in air (ug/m <sup>3</sup> )
[BR/BW] BW-day)	=	daily breathing rate normalized to body weight (L/kg BW-day)
A	=	inhalation absorption factor
EF	=	exposure frequency (days/365 days)
BW	=	body weight (kg)
1 x 10 <sup>-6</sup>	=	conversion factors (μg to mg, L to m <sup>3</sup> )
$RISK_{air} = DOSE_{air} \times CPF \times ED/AT$		

Where:

DOSE <sub>air</sub>	=	chronic daily intake (mg/kg/day)
CPF	=	cancer potency factor
ED	=	number of years within particular age group
AT	=	averaging time

## 2.6 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 μg/m<sup>3</sup> (13).

The non-cancer hazard index was calculated (consistent with SCAQMD methodology) as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$HI_{DPM} = C_{DPM}/REL_{DPM}$$

Where:

HI <sub>DPM</sub>	=	Hazard Index; an expression of the potential for non-cancer health effects.
C <sub>DPM</sub>	=	Annual average DPM concentration (μg/m <sup>3</sup> ).
REL <sub>DPM</sub>	=	Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

## 2.7 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS

### CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R8 which is located approximately 1,092 feet south of the Project site the planned DR Horton residential project. R8 is placed in the private outdoor living area (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 0.58 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

### OPERATIONAL IMPACTS

#### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R8 which is located approximately 1,092 feet south of the Project site the planned DR Horton residential project. R8 is placed in the private outdoor living area (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 0.10 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated on Exhibit 2-D.

#### Worker Exposure Scenario<sup>3</sup>:

The worker receptor land use with the greatest potential exposure to Project operational-source DPM emissions is Location R7, which represents the potential worker receptor approximately 747 feet northeast of the Project site. At the MEIW, the maximum incremental cancer risk impact is 0.05 in one million which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the

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3 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on California Air Resources Board (CARB) and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning Toxic Air Contaminant (TAC) emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

A one-quarter mile radius, or 1,320 feet, is commonly utilized for identifying sensitive receptors, such as schools, that may be impacted by a proposed project. This radius is more robust than, and therefore provides a more health protective scenario for evaluation than the 1,000-foot impact radius identified above.

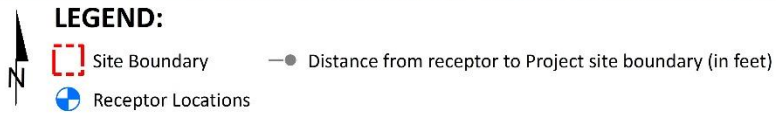
There are no schools within  $\frac{1}{4}$  mile of the Project site. The nearest school is Romoland Elementary School, which is located approximately 6,800 feet northeast of the Project site. Because there is no reasonable potential that TAC emissions would cause significant health impacts at distances of more than  $\frac{1}{4}$  mile from the air pollution source, there would be no significant impacts that would occur to any schools in the vicinity of the Project.

**CONSTRUCTION AND OPERATIONAL IMPACTS**

The land use with the greatest potential increased cancer risk due to exposure to Project construction-source and operational-source DPM emissions is Location R8. At this location, the maximum incremental cancer risk attributable to Project construction and operational DPM source emissions is estimated at 0.63 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

It should be noted that the receptors presented in Exhibit 2-D do not represent all modeled receptors.

EXHIBIT 2-D: RECEPTOR LOCATIONS



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### 3 REFERENCES

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## 4 CERTIFICATIONS

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Ethanac and Barnett Warehouse Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me at (949) 660-1994.

Haseeb Qureshi  
Associate Principal  
URBAN CROSSROADS, INC.  
(949) 660-1994  
[hqureshi@urbanxroads.com](mailto:hqureshi@urbanxroads.com)

### EDUCATION

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

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

### PROFESSIONAL AFFILIATIONS

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

### PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013  
Planned Communities and Urban Infill – Urban Land Institute • June 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008  
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007  
AB2588 Regulatory Standards – Trinity Consultants • November 2006  
Air Dispersion Modeling – Lakes Environmental • June 2006

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**APPENDIX 2.1:**  
**CALEEMOD OUTPUTS**

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# Ethanac & Barnett (Construction - Unmitigated) Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Ethanac & Barnett (Construction - Unmitigated)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	0.20
Location	33.740681538531234, -117.1943078395602
County	Riverside-South Coast
City	Menifee
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5512
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Manufacturing	25.2	1000sqft	0.79	25,191	9,280	0.00	—	—
Unrefrigerated Warehouse-No Rail	227	1000sqft	7.12	226,721	83,523	0.00	—	—
Parking Lot	416	Space	1.55	0.00	0.00	0.00	—	—

Other Asphalt Surfaces	193	1000sqft	4.43	0.00	0.00	0.00	—	—
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### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.70	37.5	48.4	51.2	0.07	2.54	6.04	8.58	2.34	2.76	5.09	—	10,574	10,574	0.40	0.36	14.3	10,705
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.01	7.76	44.3	86.7	0.11	1.98	3.17	5.15	1.82	1.08	2.91	—	24,604	24,604	0.92	1.73	2.00	25,144
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.90	5.15	12.8	15.9	0.02	0.69	0.76	1.44	0.63	0.23	0.81	—	4,078	4,078	0.15	0.24	4.67	4,159
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.35	0.94	2.34	2.89	< 0.005	0.13	0.14	0.26	0.12	0.04	0.15	—	675	675	0.03	0.04	0.77	689

### 2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	6.70	5.69	48.4	51.2	0.07	2.54	6.04	8.58	2.34	2.76	5.09	—	10,574	10,574	0.40	0.36	14.3	10,705
2024	5.70	37.5	37.8	48.7	0.07	1.98	2.15	4.12	1.82	0.52	2.34	—	9,397	9,397	0.36	0.28	11.1	9,501
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	9.01	7.76	44.3	86.7	0.11	1.98	3.17	5.15	1.82	1.08	2.91	—	24,604	24,604	0.92	1.73	2.00	25,144
2024	4.24	3.58	28.8	32.0	0.05	1.55	1.68	3.22	1.42	0.41	1.83	—	7,067	7,067	0.28	0.25	0.23	7,148
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.76	1.51	10.3	15.9	0.02	0.45	0.75	1.21	0.42	0.23	0.65	—	4,078	4,078	0.15	0.24	4.67	4,159
2024	1.90	5.15	12.8	14.7	0.02	0.69	0.76	1.44	0.63	0.18	0.81	—	3,166	3,166	0.12	0.11	1.74	3,204
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.32	0.27	1.88	2.89	< 0.005	0.08	0.14	0.22	0.08	0.04	0.12	—	675	675	0.03	0.04	0.77	689
2024	0.35	0.94	2.34	2.69	< 0.005	0.13	0.14	0.26	0.12	0.03	0.15	—	524	524	0.02	0.02	0.29	530

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.83	4.90	47.0	38.0	0.05	2.53	—	2.53	2.33	—	2.33	—	5,530	5,530	0.22	0.04	—	5,549

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Dust From Material Movement:	—	—	—	—	—	—	5.66	5.66	—	2.69	2.69	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.29	1.04	< 0.005	0.07	—	0.07	0.06	—	0.06	—	152	152	0.01	< 0.005	—	152
Dust From Material Movement:	—	—	—	—	—	—	0.16	0.16	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.24	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.1	25.1	< 0.005	< 0.005	—	25.2
Dust From Material Movement:	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.84	0.77	0.76	13.1	0.00	0.00	0.12	0.12	0.00	0.00	0.00	—	2,116	2,116	0.09	0.07	9.07	2,148
Vendor	0.03	0.01	0.59	0.18	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	503	503	0.01	0.07	1.40	526
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	53.9	53.9	< 0.005	< 0.005	0.11	54.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.02	14.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.93	8.93	< 0.005	< 0.005	0.02	9.05
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.39
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.3. Grading (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.00	4.20	40.9	32.7	0.06	1.96	—	1.96	1.80	—	1.80	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road Equipment	5.00	4.20	40.9	32.7	0.06	1.96	—	1.96	1.80	—	1.80	—	6,715	6,715	0.27	0.05	—	6,738
Dust From Material Movement	—	—	—	—	—	—	2.67	2.67	—	0.98	0.98	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.36	2.69	0.01	0.16	—	0.16	0.15	—	0.15	—	552	552	0.02	< 0.005	—	554
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.61	0.49	< 0.005	0.03	—	0.03	0.03	—	0.03	—	91.4	91.4	< 0.005	< 0.005	—	91.7
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.93	0.86	0.84	14.5	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,351	2,351	0.10	0.08	10.1	2,387
Vendor	0.08	0.04	1.76	0.55	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,508	1,508	0.03	0.22	4.20	1,579
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.81	0.98	11.0	0.00	0.00	0.13	0.13	0.00	0.00	0.00	—	2,160	2,160	0.10	0.08	0.26	2,186
Vendor	0.07	0.04	1.84	0.56	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,509	1,509	0.03	0.22	0.11	1,576
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.08	0.95	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	180	180	0.01	0.01	0.36	182
Vendor	0.01	< 0.005	0.15	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	124	124	< 0.005	0.02	0.15	130
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	29.8	29.8	< 0.005	< 0.005	0.06	30.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.5	20.5	< 0.005	< 0.005	0.02	21.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.86	3.23	28.6	25.2	0.05	1.69	—	1.69	1.56	—	1.56	—	4,609	4,609	0.19	0.04	—	4,625
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00



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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.47	3.05	0.01	0.21	—	0.21	0.19	—	0.19	—	559	559	0.02	< 0.005	—	561
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.63	0.56	< 0.005	0.04	—	0.04	0.03	—	0.03	—	92.6	92.6	< 0.005	< 0.005	—	92.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.73	4.29	5.21	58.3	0.00	0.00	0.69	0.69	0.00	0.00	0.00	—	11,446	11,446	0.55	0.42	1.38	11,587
Vendor	0.42	0.24	10.5	3.19	0.06	0.12	0.49	0.61	0.12	0.18	0.31	—	8,549	8,549	0.18	1.27	0.62	8,933
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.57	0.52	0.63	7.42	0.00	0.00	0.08	0.08	0.00	0.00	0.00	—	1,407	1,407	0.07	0.05	2.79	1,426
Vendor	0.05	0.03	1.27	0.38	0.01	0.01	0.06	0.07	0.01	0.02	0.04	—	1,037	1,037	0.02	0.15	1.25	1,085
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.12	1.35	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	233	233	0.01	0.01	0.46	236
Vendor	0.01	0.01	0.23	0.07	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	172	172	< 0.005	0.03	0.21	180
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.7. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63	3.04	26.9	24.9	0.05	1.53	—	1.53	1.41	—	1.41	—	4,608	4,608	0.19	0.04	—	4,624
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63	3.04	26.9	24.9	0.05	1.53	—	1.53	1.41	—	1.41	—	4,608	4,608	0.19	0.04	—	4,624
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.30	11.5	10.6	0.02	0.65	—	0.65	0.60	—	0.60	—	1,966	1,966	0.08	0.02	—	1,973
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.09	1.94	< 0.005	0.12	—	0.12	0.11	—	0.11	—	325	325	0.01	< 0.005	—	327
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.54	0.51	8.85	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,526	1,526	0.06	0.05	6.05	1,549
Vendor	0.05	0.03	1.20	0.37	0.01	0.02	0.06	0.08	0.02	0.02	0.04	—	1,056	1,056	0.02	0.16	2.97	1,106
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.57	0.51	0.60	6.69	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,402	1,402	0.07	0.05	0.16	1,420
Vendor	0.05	0.03	1.25	0.38	0.01	0.02	0.06	0.08	0.02	0.02	0.04	—	1,056	1,056	0.02	0.16	0.08	1,104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.26	3.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	606	606	0.03	0.02	1.12	614
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.05	0.55	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	100	100	< 0.005	< 0.005	0.18	102
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	74.6	74.6	< 0.005	0.01	0.09	78.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Paving (2024) - Unmitigated

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

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

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Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.43	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	1.25	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	216	216	0.01	0.01	0.86	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	11.0	11.0	< 0.005	< 0.005	0.02	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Architectural Coating (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.21	1.53	< 0.005	0.04	—	0.04	0.04	—	0.04	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	31.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Architectural Coatings	—	3.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.23	3.23	< 0.005	< 0.005	—	3.24	
Architectural Coatings	—	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.12	0.11	0.10	1.75	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	302	302	0.01	0.01	1.20	307	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	30.8	30.8	< 0.005	< 0.005	0.06	31.3	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.10	5.10	< 0.005	< 0.005	0.01	5.18	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

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

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

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

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

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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



Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	9/5/2023	9/18/2023	5.00	10.0	—
Grading	Grading	9/19/2023	10/30/2023	5.00	30.0	—
Building Construction	Building Construction	10/31/2023	8/5/2024	5.00	200	—
Paving	Paving	7/9/2024	8/5/2024	5.00	20.0	—
Architectural Coating	Architectural Coating	6/11/2024	8/5/2024	5.00	40.0	—

### 5.2. Off-Road Equipment

#### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	4.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Site Preparation	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Crawler Tractors	Diesel	Average	2.00	8.00	87.0	0.43
Building Construction	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	0.00	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	6.00	10.2	HHDT,MHDT

Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	106	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	34.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	21.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	389,590	129,863	15,629

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	35.0	0.00	—
Grading	0.00	0.00	120	0.00	—
Paving	0.00	0.00	0.00	0.00	5.98

### 5.6.2. Construction Earthmoving Control Strategies

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

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Manufacturing	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	1.55	100%
Other Asphalt Surfaces	4.43	100%

## 5.8. Construction Electricity Consumption and Emissions Factors

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

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.9	annual days of extreme heat
Extreme Precipitation	2.60	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	7.84	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

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

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

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

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

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

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

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

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	51.4
AQ-DPM	21.5
Drinking Water	67.4
Lead Risk Housing	21.2
Pesticides	70.2
Toxic Releases	24.2
Traffic	74.1
Effect Indicators	—

CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	50.1
Impaired Water Bodies	12.5
Solid Waste	22.1
Sensitive Population	—
Asthma	48.8
Cardio-vascular	78.2
Low Birth Weights	53.5
Socioeconomic Factor Indicators	—
Education	79.3
Housing	24.9
Linguistic	16.4
Poverty	46.8
Unemployment	73.4

## 7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	60.29770307
Employed	40.65186706
Education	—
Bachelor's or higher	37.28987553
High school enrollment	21.68612858
Preschool enrollment	56.08879764
Transportation	—



Auto Access	87.47593995
Active commuting	24.03438984
Social	—
2-parent households	65.68715514
Voting	37.14872321
Neighborhood	—
Alcohol availability	82.31746439
Park access	26.70345182
Retail density	10.84306429
Supermarket access	22.85384319
Tree canopy	2.014628513
Housing	—
Homeownership	88.6179905
Housing habitability	84.80687797
Low-inc homeowner severe housing cost burden	74.63107917
Low-inc renter severe housing cost burden	62.78711664
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	49.23649429
Arthritis	1.9
Asthma ER Admissions	51.4
High Blood Pressure	4.3
Cancer (excluding skin)	3.1
Asthma	46.1
Coronary Heart Disease	2.1
Chronic Obstructive Pulmonary Disease	9.6
Diagnosed Diabetes	20.7

Life Expectancy at Birth	41.6
Cognitively Disabled	70.6
Physically Disabled	50.9
Heart Attack ER Admissions	20.0
Mental Health Not Good	57.3
Chronic Kidney Disease	3.6
Obesity	36.5
Pedestrian Injuries	19.6
Physical Health Not Good	33.7
Stroke	7.6
Health Risk Behaviors	—
Binge Drinking	80.1
Current Smoker	59.6
No Leisure Time for Physical Activity	36.0
Climate Change Exposures	—
Wildfire Risk	7.4
SLR Inundation Area	0.0
Children	31.0
Elderly	48.0
English Speaking	75.4
Foreign-born	34.0
Outdoor Workers	12.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	83.3
Traffic Density	34.3
Traffic Access	23.0
Other Indices	—

Hardship	58.4
Other Decision Support	—
2016 Voting	52.4

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	50.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Total Project area is 13.89 acres
Construction: Construction Phases	Construction anticipated to be completed in 2024
Construction: Off-Road Equipment	Construction equipment based on equipment used for similar projects in the area
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113

**APPENDIX 2.2:**  
**EMFAC EMISSIONS SUMMARY**

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**AVERAGE EMISSION FACTOR  
RIVERSIDE COUNTY 2024**

Speed	LHD1	LHD2	MHD	HHD
0	0.364164	0.578609	0.062209	0.01271
5	0.048579	0.069107	0.036909	0.01206
25	0.022221	0.03303	0.009618	0.00621

Speed	Weighted Average Emissions
<b>0</b>	<b>0.08845</b>
<b>5</b>	<b>0.02395</b>
<b>25</b>	<b>0.00994</b>

Truck Emission Rates						
Source	Trucks Per Day	VMT <sup>a</sup> (miles/day)	Truck Emission Rate <sup>b</sup> (grams/mile)	Truck Emission Rate <sup>b</sup> (grams/idle-hour)	Daily Truck Emissions <sup>c</sup> (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling - Building A	35			0.0885	0.77	8.958E-06
On-Site Idling - Building B	35			0.0885	0.77	8.958E-06
On-Site Travel 1	140	46.85	0.0239		1.12	1.298E-05
On-Site Travel 2	140	12.26	0.0239		0.29	3.397E-06
Off-Site Travel - Barnett Road 30% Inbound/Outbound	42	3.29	0.0099		0.03	3.785E-07
Off-Site Travel - Barnett Road 70% Inbound/Outbound	98	7.85	0.0099		0.08	9.028E-07
Off-Site Travel - Barnett Road 100% Inbound/Outbound	140	10.73	0.0099		0.11	1.234E-06
Off-Site Travel - Ethanac Road 100% Inbound/Outbound	140	41.61	0.0099		0.41	4.786E-06

<sup>a</sup> Vehicle miles traveled are for modeled truck route only.

<sup>b</sup> Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

<sup>c</sup> This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatur	relative_hu	process	speed_tim	pollutant	emission_rate
2024	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.012665
2024	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.006524
2024	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.013354
2024	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.105382
2024	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.048204
2024	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.789975
2024	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	5	PM10	0.094294
2024	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	25	PM10	0.045068
2024	Annual	Riverside (	LHDT2	Dsl			IDLEX		PM10	0.789487
2024	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.040436
2024	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.010537
2024	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.068154



Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar	Vehicle C	Model Year	Speed	Fuel	Population
Riverside	2024	HHDT	Aggregate	Aggregate	Gasoline	7.58948
Riverside	2024	HHDT	Aggregate	Aggregate	Diesel	14792
Riverside	2024	HHDT	Aggregate	Aggregate	Natural Gas	740.071
Riverside	2024	LHDT1	Aggregate	Aggregate	Gasoline	17828.7
Riverside	2024	LHDT1	Aggregate	Aggregate	Diesel	15247.6
Riverside	2024	LHDT2	Aggregate	Aggregate	Gasoline	2494.68
Riverside	2024	LHDT2	Aggregate	Aggregate	Diesel	6844.93
Riverside	2024	MHDT	Aggregate	Aggregate	Gasoline	1238
Riverside	2024	MHDT	Aggregate	Aggregate	Diesel	12954.4
Riverside	2024	MHDT	Aggregate	Aggregate	Natural Gas	158.047

HHDT% GAS/NG 0.04811

HHDT% DSL 0.95189

LHDT1% GAS 0.53902

LHDT1% DSL 0.46098

LHDT2% GAS 0.26711

LHDT2% DSL 0.73289

MHDT% GAS 0.08723

MHDT% DSL 0.91277

**APPENDIX 2.3:**  
**AERMOD MODEL INPUT/OUTPUT**

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```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 12/2/2022
** File: C:\Lakes\AERMOD View\14775-03 HRA Modeling Files\14775 Ethanac and
Barnett\14775 Construction\14775 Construction.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 2189641 Riverside_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "14775 Construction.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Ethanac 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0009646713
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 482092.273, 3733680.890, 433.00, 3.49, 6.51
** 482570.497, 3733674.016, 434.00, 3.49, 6.51
** -----

```

LOCATION L0000487	VOLUME	482099.273	3733680.790	433.00
LOCATION L0000488	VOLUME	482113.271	3733680.589	433.00
LOCATION L0000489	VOLUME	482127.270	3733680.387	433.00
LOCATION L0000490	VOLUME	482141.268	3733680.186	433.00
LOCATION L0000491	VOLUME	482155.267	3733679.985	433.00
LOCATION L0000492	VOLUME	482169.265	3733679.784	433.00
LOCATION L0000493	VOLUME	482183.264	3733679.582	433.00
LOCATION L0000494	VOLUME	482197.262	3733679.381	433.00
LOCATION L0000495	VOLUME	482211.261	3733679.180	433.00
LOCATION L0000496	VOLUME	482225.259	3733678.979	433.00
LOCATION L0000497	VOLUME	482239.258	3733678.777	433.00
LOCATION L0000498	VOLUME	482253.257	3733678.576	433.00
LOCATION L0000499	VOLUME	482267.255	3733678.375	433.00
LOCATION L0000500	VOLUME	482281.254	3733678.174	433.00
LOCATION L0000501	VOLUME	482295.252	3733677.972	433.00
LOCATION L0000502	VOLUME	482309.251	3733677.771	433.00
LOCATION L0000503	VOLUME	482323.249	3733677.570	433.07
LOCATION L0000504	VOLUME	482337.248	3733677.369	433.36
LOCATION L0000505	VOLUME	482351.246	3733677.167	433.64
LOCATION L0000506	VOLUME	482365.245	3733676.966	433.82
LOCATION L0000507	VOLUME	482379.244	3733676.765	433.99
LOCATION L0000508	VOLUME	482393.242	3733676.564	434.00
LOCATION L0000509	VOLUME	482407.241	3733676.363	434.00
LOCATION L0000510	VOLUME	482421.239	3733676.161	434.00
LOCATION L0000511	VOLUME	482435.238	3733675.960	434.00
LOCATION L0000512	VOLUME	482449.236	3733675.759	434.00
LOCATION L0000513	VOLUME	482463.235	3733675.558	434.00
LOCATION L0000514	VOLUME	482477.233	3733675.356	434.00
LOCATION L0000515	VOLUME	482491.232	3733675.155	434.00
LOCATION L0000516	VOLUME	482505.231	3733674.954	434.00
LOCATION L0000517	VOLUME	482519.229	3733674.753	434.00
LOCATION L0000518	VOLUME	482533.228	3733674.551	434.00
LOCATION L0000519	VOLUME	482547.226	3733674.350	434.00
LOCATION L0000520	VOLUME	482561.225	3733674.149	434.00

\*\* End of LINE VOLUME Source ID = SLINE6

LOCATION VOL1	VOLUME	481940.900	3733621.669	433.000
LOCATION VOL2	VOLUME	481940.221	3733565.836	433.000
LOCATION VOL3	VOLUME	481939.881	3733510.679	433.000
LOCATION VOL4	VOLUME	481940.221	3733454.841	433.000
LOCATION VOL5	VOLUME	481940.221	3733399.004	433.000
LOCATION VOL6	VOLUME	481940.562	3733342.826	433.000
LOCATION VOL7	VOLUME	481939.540	3733286.988	433.000
LOCATION VOL8	VOLUME	481950.776	3733232.512	433.000
LOCATION VOL9	VOLUME	481967.800	3733207.317	433.000
LOCATION VOL10	VOLUME	481994.697	3733262.814	433.000
LOCATION VOL11	VOLUME	481994.357	3733318.311	433.000
LOCATION VOL12	VOLUME	482046.109	3733305.714	433.000
LOCATION VOL13	VOLUME	481993.676	3733374.149	433.000
LOCATION VOL14	VOLUME	481993.676	3733429.646	433.000
LOCATION VOL15	VOLUME	481994.016	3733484.803	433.000

LOCATION VOL16	VOLUME	481994.697	3733527.022	433.000
LOCATION VOL17	VOLUME	482043.385	3733526.682	433.000
LOCATION VOL18	VOLUME	482043.725	3733471.525	433.000
LOCATION VOL19	VOLUME	482046.109	3733361.211	433.000
LOCATION VOL20	VOLUME	482044.406	3733417.049	433.000

\*\*

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE7

\*\* DESCRSRC

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0009646713

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 482092.636, 3733667.305, 433.00, 3.49, 4.00

\*\* 482089.337, 3733275.697, 433.00, 3.49, 4.00

\*\*

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LOCATION L0000351	VOLUME	482092.600	3733663.011	433.00
LOCATION L0000352	VOLUME	482092.527	3733654.421	433.00
LOCATION L0000353	VOLUME	482092.455	3733645.831	433.00
LOCATION L0000354	VOLUME	482092.383	3733637.242	433.00
LOCATION L0000355	VOLUME	482092.310	3733628.652	433.00
LOCATION L0000356	VOLUME	482092.238	3733620.062	433.00
LOCATION L0000357	VOLUME	482092.166	3733611.472	433.00
LOCATION L0000358	VOLUME	482092.093	3733602.883	433.00
LOCATION L0000359	VOLUME	482092.021	3733594.293	433.00
LOCATION L0000360	VOLUME	482091.948	3733585.703	433.00
LOCATION L0000361	VOLUME	482091.876	3733577.114	433.00
LOCATION L0000362	VOLUME	482091.804	3733568.524	433.00
LOCATION L0000363	VOLUME	482091.731	3733559.934	433.00
LOCATION L0000364	VOLUME	482091.659	3733551.345	433.00
LOCATION L0000365	VOLUME	482091.587	3733542.755	433.00
LOCATION L0000366	VOLUME	482091.514	3733534.165	433.00
LOCATION L0000367	VOLUME	482091.442	3733525.576	433.00
LOCATION L0000368	VOLUME	482091.370	3733516.986	433.00
LOCATION L0000369	VOLUME	482091.297	3733508.396	433.00
LOCATION L0000370	VOLUME	482091.225	3733499.806	433.00
LOCATION L0000371	VOLUME	482091.153	3733491.217	433.00
LOCATION L0000372	VOLUME	482091.080	3733482.627	433.00
LOCATION L0000373	VOLUME	482091.008	3733474.037	433.00
LOCATION L0000374	VOLUME	482090.936	3733465.448	433.00
LOCATION L0000375	VOLUME	482090.863	3733456.858	433.00
LOCATION L0000376	VOLUME	482090.791	3733448.268	433.00
LOCATION L0000377	VOLUME	482090.718	3733439.679	433.00
LOCATION L0000378	VOLUME	482090.646	3733431.089	433.00
LOCATION L0000379	VOLUME	482090.574	3733422.499	433.00
LOCATION L0000380	VOLUME	482090.501	3733413.909	433.00
LOCATION L0000381	VOLUME	482090.429	3733405.320	433.00

LOCATION	L0000382	VOLUME	482090.357	3733396.730	433.00
LOCATION	L0000383	VOLUME	482090.284	3733388.140	433.00
LOCATION	L0000384	VOLUME	482090.212	3733379.551	433.00
LOCATION	L0000385	VOLUME	482090.140	3733370.961	433.00
LOCATION	L0000386	VOLUME	482090.067	3733362.371	433.00
LOCATION	L0000387	VOLUME	482089.995	3733353.782	433.00
LOCATION	L0000388	VOLUME	482089.923	3733345.192	433.00
LOCATION	L0000389	VOLUME	482089.850	3733336.602	433.00
LOCATION	L0000390	VOLUME	482089.778	3733328.013	433.00
LOCATION	L0000391	VOLUME	482089.705	3733319.423	433.00
LOCATION	L0000392	VOLUME	482089.633	3733310.833	433.00
LOCATION	L0000393	VOLUME	482089.561	3733302.243	433.00
LOCATION	L0000394	VOLUME	482089.488	3733293.654	433.00
LOCATION	L0000395	VOLUME	482089.416	3733285.064	433.00
LOCATION	L0000396	VOLUME	482089.344	3733276.474	433.00

\*\* End of LINE VOLUME Source ID = SLINE7

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE6

SRCPARAM	L0000487	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000488	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000489	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000490	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000491	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000492	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000493	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000494	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000495	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000496	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000497	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000498	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000499	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000500	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000501	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000502	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000503	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000504	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000505	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000506	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000507	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000508	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000509	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000510	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000511	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000512	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000513	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000514	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000515	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000516	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000517	0.0000283727	3.49	6.51	3.25
SRCPARAM	L0000518	0.0000283727	3.49	6.51	3.25

SRCPARAM L0000519	0.0000283727	3.49	6.51	3.25
SRCPARAM L0000520	0.0000283727	3.49	6.51	3.25

\*\* -----

SRCPARAM VOL1	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL2	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL3	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL4	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL5	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL6	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL7	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL8	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL9	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL10	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL11	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL12	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL13	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL14	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL15	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL16	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL17	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL18	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL19	0.0013633365	5.000	12.828	1.400
SRCPARAM VOL20	0.0013633365	5.000	12.828	1.400

\*\* LINE VOLUME Source ID = SLINE7

SRCPARAM L0000351	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000352	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000353	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000354	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000355	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000356	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000357	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000358	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000359	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000360	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000361	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000362	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000363	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000364	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000365	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000366	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000367	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000368	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000369	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000370	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000371	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000372	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000373	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000374	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000375	0.0000209711	3.49	4.00	3.25
SRCPARAM L0000376	0.0000209711	3.49	4.00	3.25



SRCPARAM	L0000377	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000378	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000379	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000380	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000381	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000382	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000383	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000384	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000385	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000386	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000387	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000388	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000389	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000390	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000391	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000392	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000393	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000394	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000395	0.0000209711	3.49	4.00	3.25
SRCPARAM	L0000396	0.0000209711	3.49	4.00	3.25

\*\*

-----  
 URBANSRC ALL

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

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

\*\* WeekDays:

EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000487	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000487	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000487	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000488	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000488	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000489	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000489	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000490	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000490	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000491	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000491	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000491	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000491	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000492	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000492	HRDOW	0.0	0.0	1.0	1.0	1.0	1.0
EMISFACT	L0000492	HRDOW	1.0	1.0	1.0	1.0	0.0	0.0
EMISFACT	L0000492	HRDOW	0.0	0.0	0.0	0.0	0.0	0.0



















EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL2	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL3	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL4	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL5	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL5	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL5	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0



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EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

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EMISFACT VOL18	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL18	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL18	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL18	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL18	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL19	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL19	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL20	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL20	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT L0000351	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000351	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000351	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000351	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000352	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000352	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000352	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000352	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000353	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000353	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000353	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000353	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000354	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0



























INCLUDED "14775 Construction.rou"

RE FINISHED

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\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE PERI\_V9\_ADJU\PERI\_v9.SFC

PROFFILE PERI\_V9\_ADJU\PERI\_v9.PFL

SURFDATA 3171 2010

UAIRDATA 3190 2010

SITEDATA 99999 2010

PROFBASE 442.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

\*\* Auto-Generated Plotfiles

PLOTFILE ANNUAL ALL "14775 CONSTRUCTION.AD\AN00GALL.PLT" 31

SUMMFILE "14775 Construction.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 1565 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 1565 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

\*\*\* MODEL SETUP OPTIONS SUMMARY

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---  
\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 100 Source(s),  
for Total of 1 Urban Area(s):
- Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Assumes No FLAGPOLE Receptor Heights.
- \* The User Specified a Pollutant Type of: DPM

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 100 Source(s); 1 Source Group(s); and 21  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 100 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

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

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

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

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

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

Hours

b for Both Calm

and Missing Hours

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

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

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 14775 Construction.err

\*\*File for Summary of Results: 14775 Construction.sum

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

INIT. URBAN EMISSION RATE BASE RELEASE INIT.  
NUMBER EMISSION RATE

SOURCE SZ SOURCE ID (METERS)	PART. SCALAR CATS.	(GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)
L0000487	0	0.28373E-04	482099.3	3733680.8	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000488	0	0.28373E-04	482113.3	3733680.6	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000489	0	0.28373E-04	482127.3	3733680.4	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000490	0	0.28373E-04	482141.3	3733680.2	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000491	0	0.28373E-04	482155.3	3733680.0	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000492	0	0.28373E-04	482169.3	3733679.8	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000493	0	0.28373E-04	482183.3	3733679.6	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000494	0	0.28373E-04	482197.3	3733679.4	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000495	0	0.28373E-04	482211.3	3733679.2	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000496	0	0.28373E-04	482225.3	3733679.0	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000497	0	0.28373E-04	482239.3	3733678.8	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000498	0	0.28373E-04	482253.3	3733678.6	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000499	0	0.28373E-04	482267.3	3733678.4	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000500	0	0.28373E-04	482281.3	3733678.2	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000501	0	0.28373E-04	482295.3	3733678.0	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000502	0	0.28373E-04	482309.3	3733677.8	433.0	3.49	6.51
3.25 YES	HRDOW						
L0000503	0	0.28373E-04	482323.2	3733677.6	433.1	3.49	6.51
3.25 YES	HRDOW						
L0000504	0	0.28373E-04	482337.2	3733677.4	433.4	3.49	6.51
3.25 YES	HRDOW						
L0000505	0	0.28373E-04	482351.2	3733677.2	433.6	3.49	6.51
3.25 YES	HRDOW						
L0000506	0	0.28373E-04	482365.2	3733677.0	433.8	3.49	6.51
3.25 YES	HRDOW						
L0000507	0	0.28373E-04	482379.2	3733676.8	434.0	3.49	6.51
3.25 YES	HRDOW						
L0000508	0	0.28373E-04	482393.2	3733676.6	434.0	3.49	6.51

3.25	YES	HRDOW							
L0000509		0	0.28373E-04	482407.2	3733676.4	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000510		0	0.28373E-04	482421.2	3733676.2	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000511		0	0.28373E-04	482435.2	3733676.0	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000512		0	0.28373E-04	482449.2	3733675.8	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000513		0	0.28373E-04	482463.2	3733675.6	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000514		0	0.28373E-04	482477.2	3733675.4	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000515		0	0.28373E-04	482491.2	3733675.2	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000516		0	0.28373E-04	482505.2	3733675.0	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000517		0	0.28373E-04	482519.2	3733674.8	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000518		0	0.28373E-04	482533.2	3733674.6	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000519		0	0.28373E-04	482547.2	3733674.3	434.0	3.49	6.51	
3.25	YES	HRDOW							
L0000520		0	0.28373E-04	482561.2	3733674.1	434.0	3.49	6.51	
3.25	YES	HRDOW							
VOL1		0	0.13633E-02	481940.9	3733621.7	433.0	5.00	12.83	
1.40	YES	HRDOW							
VOL2		0	0.13633E-02	481940.2	3733565.8	433.0	5.00	12.83	
1.40	YES	HRDOW							
VOL3		0	0.13633E-02	481939.9	3733510.7	433.0	5.00	12.83	
1.40	YES	HRDOW							
VOL4		0	0.13633E-02	481940.2	3733454.8	433.0	5.00	12.83	
1.40	YES	HRDOW							
VOL5		0	0.13633E-02	481940.2	3733399.0	433.0	5.00	12.83	
1.40	YES	HRDOW							
VOL6		0	0.13633E-02	481940.6	3733342.8	433.0	5.00	12.83	
1.40	YES	HRDOW							

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

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

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE	BASE	RELEASE	INIT.
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SOURCE SZ SOURCE ID (METERS)	PART. SCALAR CATS.	(GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)
VOL7	0	0.13633E-02	481939.5	3733287.0	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL8	0	0.13633E-02	481950.8	3733232.5	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL9	0	0.13633E-02	481967.8	3733207.3	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL10	0	0.13633E-02	481994.7	3733262.8	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL11	0	0.13633E-02	481994.4	3733318.3	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL12	0	0.13633E-02	482046.1	3733305.7	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL13	0	0.13633E-02	481993.7	3733374.1	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL14	0	0.13633E-02	481993.7	3733429.6	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL15	0	0.13633E-02	481994.0	3733484.8	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL16	0	0.13633E-02	481994.7	3733527.0	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL17	0	0.13633E-02	482043.4	3733526.7	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL18	0	0.13633E-02	482043.7	3733471.5	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL19	0	0.13633E-02	482046.1	3733361.2	433.0	5.00	12.83
1.40	YES	HRDOW					
VOL20	0	0.13633E-02	482044.4	3733417.0	433.0	5.00	12.83
1.40	YES	HRDOW					
L0000351	0	0.20971E-04	482092.6	3733663.0	433.0	3.49	4.00
3.25	YES	HRDOW					
L0000352	0	0.20971E-04	482092.5	3733654.4	433.0	3.49	4.00
3.25	YES	HRDOW					
L0000353	0	0.20971E-04	482092.5	3733645.8	433.0	3.49	4.00
3.25	YES	HRDOW					
L0000354	0	0.20971E-04	482092.4	3733637.2	433.0	3.49	4.00
3.25	YES	HRDOW					
L0000355	0	0.20971E-04	482092.3	3733628.7	433.0	3.49	4.00
3.25	YES	HRDOW					
L0000356	0	0.20971E-04	482092.2	3733620.1	433.0	3.49	4.00
3.25	YES	HRDOW					
L0000357	0	0.20971E-04	482092.2	3733611.5	433.0	3.49	4.00
3.25	YES	HRDOW					
L0000358	0	0.20971E-04	482092.1	3733602.9	433.0	3.49	4.00



3.25	YES	HRDOW							
L0000359		0	0.20971E-04	482092.0	3733594.3	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000360		0	0.20971E-04	482091.9	3733585.7	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000361		0	0.20971E-04	482091.9	3733577.1	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000362		0	0.20971E-04	482091.8	3733568.5	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000363		0	0.20971E-04	482091.7	3733559.9	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000364		0	0.20971E-04	482091.7	3733551.3	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000365		0	0.20971E-04	482091.6	3733542.8	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000366		0	0.20971E-04	482091.5	3733534.2	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000367		0	0.20971E-04	482091.4	3733525.6	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000368		0	0.20971E-04	482091.4	3733517.0	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000369		0	0.20971E-04	482091.3	3733508.4	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000370		0	0.20971E-04	482091.2	3733499.8	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000371		0	0.20971E-04	482091.2	3733491.2	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000372		0	0.20971E-04	482091.1	3733482.6	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000373		0	0.20971E-04	482091.0	3733474.0	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000374		0	0.20971E-04	482090.9	3733465.4	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000375		0	0.20971E-04	482090.9	3733456.9	433.0	3.49	4.00	
3.25	YES	HRDOW							
L0000376		0	0.20971E-04	482090.8	3733448.3	433.0	3.49	4.00	

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

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

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE	BASE	RELEASE	INIT.
-------	-------	----------------------	---------------	------	---------	-------

SOURCE SZ SOURCE ID (METERS)	PART. SCALAR CATS. BY	(GRAMS/SEC) VARY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)
---------------------------------------	--------------------------------	---------------------	---------------	---------------	-------------------	--------------------	----------------

L0000377	0	0.20971E-04	482090.7	3733439.7	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000378	0	0.20971E-04	482090.6	3733431.1	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000379	0	0.20971E-04	482090.6	3733422.5	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000380	0	0.20971E-04	482090.5	3733413.9	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000381	0	0.20971E-04	482090.4	3733405.3	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000382	0	0.20971E-04	482090.4	3733396.7	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000383	0	0.20971E-04	482090.3	3733388.1	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000384	0	0.20971E-04	482090.2	3733379.6	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000385	0	0.20971E-04	482090.1	3733371.0	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000386	0	0.20971E-04	482090.1	3733362.4	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000387	0	0.20971E-04	482090.0	3733353.8	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000388	0	0.20971E-04	482089.9	3733345.2	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000389	0	0.20971E-04	482089.8	3733336.6	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000390	0	0.20971E-04	482089.8	3733328.0	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000391	0	0.20971E-04	482089.7	3733319.4	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000392	0	0.20971E-04	482089.6	3733310.8	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000393	0	0.20971E-04	482089.6	3733302.2	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000394	0	0.20971E-04	482089.5	3733293.7	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000395	0	0.20971E-04	482089.4	3733285.1	433.0	3.49	4.00
3.25 YES	HRDOW						
L0000396	0	0.20971E-04	482089.3	3733276.5	433.0	3.49	4.00
3.25 YES	HRDOW						

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs					
-----	-----					
ALL	L0000487	, L0000488	, L0000489	, L0000490	, L0000491	,
L0000492	, L0000493	, L0000494	,			
L0000500	L0000495	, L0000496	, L0000497	, L0000498	, L0000499	,
	, L0000501	, L0000502	,			
L0000508	L0000503	, L0000504	, L0000505	, L0000506	, L0000507	,
	, L0000509	, L0000510	,			
L0000516	L0000511	, L0000512	, L0000513	, L0000514	, L0000515	,
	, L0000517	, L0000518	,			
VOL4	L0000519	, L0000520	, VOL1	, VOL2	, VOL3	,
	, VOL5	, VOL6	,			
VOL12	VOL7	, VOL8	, VOL9	, VOL10	, VOL11	,
	, VOL13	, VOL14	,			
VOL20	VOL15	, VOL16	, VOL17	, VOL18	, VOL19	,
	, L0000351	, L0000352	,			
L0000358	L0000353	, L0000354	, L0000355	, L0000356	, L0000357	,
	, L0000359	, L0000360	,			
L0000366	L0000361	, L0000362	, L0000363	, L0000364	, L0000365	,
	, L0000367	, L0000368	,			
L0000374	L0000369	, L0000370	, L0000371	, L0000372	, L0000373	,
	, L0000375	, L0000376	,			
L0000382	L0000377	, L0000378	, L0000379	, L0000380	, L0000381	,
	, L0000383	, L0000384	,			
L0000390	L0000385	, L0000386	, L0000387	, L0000388	, L0000389	,
	, L0000391	, L0000392	,			
	L0000393	, L0000394	, L0000395	, L0000396	,	

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

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

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0000491 L0000494	2189641. , L0000492 ,	L0000487 , L0000493	, L0000488 ,	, L0000489 ,	, L0000490 ,		
L0000500	L0000495 , L0000501	, L0000496 , L0000502	, L0000497 ,	, L0000498 ,	, L0000499 ,		
L0000508	L0000503 , L0000509	, L0000504 , L0000510	, L0000505 ,	, L0000506 ,	, L0000507 ,		
L0000516	L0000511 , L0000517	, L0000512 , L0000518	, L0000513 ,	, L0000514 ,	, L0000515 ,		
VOL4	L0000519 , VOL5	, L0000520 , VOL6	, VOL1 ,	, VOL2 ,	, VOL3 ,		
VOL12	VOL7 , VOL13	, VOL8 , VOL14	, VOL9 ,	, VOL10 ,	, VOL11 ,		
VOL20	VOL15 , L0000351	, VOL16 , L0000352	, VOL17 ,	, VOL18 ,	, VOL19 ,		
L0000358	L0000353 , L0000359	, L0000354 , L0000360	, L0000355 ,	, L0000356 ,	, L0000357 ,		
L0000366	L0000361 , L0000367	, L0000362 , L0000368	, L0000363 ,	, L0000364 ,	, L0000365 ,		
L0000374	L0000369 , L0000375	, L0000370 , L0000376	, L0000371 ,	, L0000372 ,	, L0000373 ,		
L0000382	L0000377 , L0000383	, L0000378 , L0000384	, L0000379 ,	, L0000380 ,	, L0000381 ,		

L0000385 , L0000386 , L0000387 , L0000388 , L0000389 ,  
L0000390 , L0000391 , L0000392 ,

L0000393 , L0000394 , L0000395 , L0000396 ,  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000487 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

OF WEEK (HRDOW) \*

SOURCE ID = L0000488 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

SOURCE ID = L0000489 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

\*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = L000490 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00  
 \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = L0000491 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 -----  
 -----  
 DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01  
 14 .1000E+01 15 .1000E+01 16 .1000E+01  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SATURDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00  
 DAY OF WEEK = SUNDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
 14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00  
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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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



SOURCE ID = L0000492 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = L0000493 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

DAY OF WEEK = SATURDAY

```

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

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DAY OF WEEK = SUNDAY

```

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

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Ethanac and Barnett\14775 ***      12/02/22
*** AERMET - VERSION 16216 ***      ***
***                                     ***      14:42:44

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

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

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SOURCE ID = L000494 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR

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DAY OF WEEK = WEEKDAY

```

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

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DAY OF WEEK = SATURDAY

```

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

```

DAY OF WEEK = SUNDAY

```

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

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 Ethanac and Barnett\14775 \*\*\*            12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

SOURCE ID = L0000495        ; SOURCE TYPE = VOLUME        :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 Ethanac and Barnett\14775 \*\*\*            12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

SOURCE ID = L0000496        ; SOURCE TYPE = VOLUME        :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775
Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

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SOURCE ID = L000497 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

```

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DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

```

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

DAY OF WEEK = SUNDAY

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

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

SOURCE ID = L0000498 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
Ethanac and Barnett\14775 \*\*\* 12/02/22

\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:42:44

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

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

SOURCE ID = L000499 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:42:44

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

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

SOURCE ID = L000500 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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    \*\*\*      14:42:44

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

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

SOURCE ID = L000501      ; SOURCE TYPE = VOLUME      :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L000502 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000503 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

SOURCE ID = L0000504 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000505            ; SOURCE TYPE = VOLUME            :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000506      ; SOURCE TYPE = VOLUME      :

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

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000507 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

SOURCE ID = L0000508 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000509 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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

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

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

SOURCE ID = L0000510 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000511 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
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 \*\*\* 14:42:44

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

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

SOURCE ID = L0000512 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000513 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----  
-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00



14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00  
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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = L0000514 ; SOURCE TYPE = VOLUME :

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000515 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000516 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000517      ; SOURCE TYPE = VOLUME      :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

-----  
 -----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

22 .0000E+00 23 .0000E+00 24 .0000E+00  
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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000518 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 \*\*\* 14:42:44

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

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

SOURCE ID = L0000519 ; SOURCE TYPE = VOLUME :

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

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000520      ; SOURCE TYPE = VOLUME      :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

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

-----  
-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

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

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

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

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

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

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

```

```

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

```

```

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

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Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

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

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

```

```

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

```



14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
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\*\*\* 14:42:44

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

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

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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\*\*\* 14:42:44

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

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

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

SOURCE ID = VOL8                    ; SOURCE TYPE = VOLUME    :

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

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

```

22 .0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
14 .0000E+00  15 .0000E+00  16 .0000E+00
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00
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Ethanac and Barnett\14775 ***   12/02/22
*** AERMET - VERSION 16216 ***   ***
***                               14:42:44

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

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

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SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
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                                DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01
14 .1000E+01  15 .1000E+01  16 .1000E+01
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
22 .0000E+00  23 .0000E+00  24 .0000E+00

```

```

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

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```

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

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Ethanac and Barnett\14775 ***   12/02/22
*** AERMET - VERSION 16216 ***   ***
***                               14:42:44

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

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

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----  
 -----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 Ethanac and Barnett\14775 \*\*\*      12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*      14:42:44

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

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

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 -----

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 -----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

```

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

```

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

```

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

```

```

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Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----  
 DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01



14 .1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

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

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 -----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

OF WEEK (HRDOW) \*

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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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
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775
Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

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SOURCE ID = L0000351 ; SOURCE TYPE = VOLUME :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                     DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
                                     DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14775
Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

SOURCE ID = L0000352 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = L0000353 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000354      ; SOURCE TYPE = VOLUME      :

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

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 Ethanac and Barnett\14775 \*\*\*            12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

SOURCE ID = L0000355            ; SOURCE TYPE = VOLUME        :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

SOURCE ID = L0000356            ; SOURCE TYPE = VOLUME        :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR



HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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```

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

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

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

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SOURCE ID = L000357 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

```

```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00

```

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000358 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000359 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

SOURCE ID = L000360 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000361      ; SOURCE TYPE = VOLUME      :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000362 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

SOURCE ID = L0000363 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*
\*\*\* 14:42:44

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

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

SOURCE ID = L0000364 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000365            ; SOURCE TYPE = VOLUME        :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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    \*\*\*                  14:42:44

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

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

SOURCE ID = L0000366      ; SOURCE TYPE = VOLUME      :

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

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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    \*\*\*                  14:42:44



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

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

SOURCE ID = L0000367 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

SOURCE ID = L0000368 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----  
DAY OF WEEK = WEEKDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000369 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L000370 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
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 \*\*\* 14:42:44

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

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

SOURCE ID = L0000371 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

SOURCE ID = L0000372 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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\*\*\* 14:42:44

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

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

SOURCE ID = L000373 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00 15 .0000E+00 16 .0000E+00  
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
 22 .0000E+00 23 .0000E+00 24 .0000E+00  
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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = L0000374 ; SOURCE TYPE = VOLUME :

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
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 \*\*\* 14:42:44

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

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

SOURCE ID = L0000375 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000376 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

SOURCE ID = L000377      ; SOURCE TYPE = VOLUME      :  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR  
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR

-----  
 -----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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



22 .0000E+00 23 .0000E+00 24 .0000E+00  
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\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000378 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 -----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000379 ; SOURCE TYPE = VOLUME :

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

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000380      ; SOURCE TYPE = VOLUME      :

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

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000381 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L0000382 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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\*\*\* 14:42:44

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

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

SOURCE ID = L0000383 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

```

```

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

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

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*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

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SOURCE ID = L0000384 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

```

```

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

```

```

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

```

14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

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

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

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

SOURCE ID = L000385 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*

\*\*\* 14:42:44

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

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

SOURCE ID = L0000386 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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\*\*\* AERMET - VERSION 16216 \*\*\*  
\*\*\* 14:42:44

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

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

SOURCE ID = L0000387 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

SOURCE ID = L0000388    ; SOURCE TYPE = VOLUME    :

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

-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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



22 .0000E+00 23 .0000E+00 24 .0000E+00  
DAY OF WEEK = SUNDAY  
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
6 .0000E+00 7 .0000E+00 8 .0000E+00  
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00  
14 .0000E+00 15 .0000E+00 16 .0000E+00  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00  
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Ethanac and Barnett\14775 \*\*\* 12/02/22  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000389 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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

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

SOURCE ID = L0000390 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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\*\*\* 14:42:44

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

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

SOURCE ID = L0000391 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

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

SOURCE ID = L0000392 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

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SOURCE ID = L0000393 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

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

SOURCE ID = L0000394 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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

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

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

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 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:42:44

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

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

SOURCE ID = L0000395 ; SOURCE TYPE = VOLUME :  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

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 DAY OF WEEK = WEEKDAY  
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00  
 6 .0000E+00 7 .0000E+00 8 .0000E+00  
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01

14 .1000E+01 15 .1000E+01 16 .1000E+01  
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00  
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

SOURCE ID = L0000396 ; SOURCE TYPE = VOLUME :  
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR  
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----

DAY OF WEEK = WEEKDAY

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

DAY OF WEEK = SATURDAY

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

DAY OF WEEK = SUNDAY

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

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

▲ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
Ethanac and Barnett\14775 \*\*\* 12/02/22  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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

( 481674.7, 3733528.2, 432.6, 432.6, 0.0); ( 481678.5,  
3733485.2, 433.0, 433.0, 0.0);  
( 482332.4, 3733529.2, 434.0, 434.0, 0.0); ( 482109.7,  
3733729.3, 433.0, 433.0, 0.0);  
( 482224.9, 3733718.8, 433.0, 433.0, 0.0); ( 481358.9,  
3733604.3, 432.0, 432.0, 0.0);  
( 481263.4, 3733447.0, 432.0, 432.0, 0.0); ( 481263.1,  
3733556.7, 431.8, 431.8, 0.0);  
( 481632.2, 3732857.9, 433.0, 433.0, 0.0); ( 482685.2,  
3732853.1, 435.0, 435.0, 0.0);  
( 482130.0, 3732676.5, 435.0, 435.0, 0.0); ( 482403.3,  
3732672.4, 435.8, 435.8, 0.0);  
( 481674.8, 3732799.4, 433.0, 433.0, 0.0); ( 482838.5,  
3733632.3, 435.0, 435.0, 0.0);  
( 483293.6, 3733685.7, 436.0, 436.0, 0.0); ( 483197.2,  
3731112.9, 441.2, 651.0, 0.0);  
( 483154.3, 3731089.9, 441.0, 651.0, 0.0); ( 484158.5,  
3733886.5, 441.5, 441.5, 0.0);  
( 484127.2, 3733944.4, 441.2, 441.2, 0.0); ( 480863.5,  
3734010.1, 430.0, 430.0, 0.0);  
( 481969.2, 3732847.3, 434.0, 434.0, 0.0);

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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

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





First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	
1.00	1.30	335.			9.1	282.5	5.5							
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	
1.00	0.90	142.			9.1	280.9	5.5							
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	
1.00	0.90	324.			9.1	280.4	5.5							
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	
1.00	0.40	294.			9.1	278.8	5.5							
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	
1.00	0.90	205.			9.1	278.1	5.5							
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	
1.00	0.40	3.			9.1	277.0	5.5							
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	
1.00	1.30	99.			9.1	277.0	5.5							
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	
0.54	0.90	319.			9.1	278.8	5.5							
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	
0.33	0.90	239.			9.1	284.2	5.5							
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	
0.26	0.40	188.			9.1	289.2	5.5							
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	
0.23	2.70	310.			9.1	290.9	5.5							
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	
0.22	2.20	357.			9.1	293.1	5.5							
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	
0.22	2.20	356.			9.1	293.8	5.5							
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	
0.23	2.20	50.			9.1	294.2	5.5							
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	
0.27	1.80	53.			9.1	293.8	5.5							
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	
0.36	1.80	11.			9.1	292.5	5.5							
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	
0.64	0.90	351.			9.1	290.4	5.5							
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	
1.00	0.90	186.			9.1	287.5	5.5							
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	
1.00	0.90	275.			9.1	285.9	5.5							
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	
1.00	0.40	181.			9.1	285.4	5.5							
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	
1.00	1.30	318.			9.1	284.9	5.5							
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	
1.00	0.90	196.			9.1	283.1	5.5							

```

10 01 01 1 23 -3.8 0.088 -9.000 -9.000 -999. 62. 15.1 0.19 0.61
1.00 0.90 330. 9.1 281.4 5.5
10 01 01 1 24 -7.9 0.125 -9.000 -9.000 -999. 106. 21.2 0.19 0.61
1.00 1.30 332. 9.1 280.9 5.5

```

First hour of profile data

```

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

```

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

```

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Ethanac and Barnett\14775 *** 12/02/22
*** AERMET - VERSION 16216 *** ***
*** 14:42:44

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

```

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000487 , L0000488
, L0000489 , L0000490 , L0000491 ,
, L0000492 , L0000493 , L0000494 , L0000495 , L0000496
, L0000497 , L0000498 , L0000499 ,
, L0000500 , L0000501 , L0000502 , L0000503 , L0000504
, L0000505 , L0000506 , L0000507 ,
, L0000508 , L0000509 , L0000510 , L0000511 , L0000512
, L0000513 , L0000514 , . . . ,

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
481674.68	3733528.18	0.00945	481678.55
3733485.20	0.01034		
482332.42	3733529.19	0.00982	482109.67
3733729.33	0.02028		
482224.88	3733718.77	0.01732	481358.93
3733604.26	0.00228		
481263.43	3733447.05	0.00194	481263.12
3733556.71	0.00184		
481632.16	3732857.88	0.00371	482685.25

3732853.15	0.00255			
482129.97	3732676.48	0.00464		482403.26
3732672.44	0.00423			
481674.81	3732799.36	0.00344		482838.46
3733632.31	0.00145			
483293.65	3733685.67	0.00073		483197.16
3731112.95	0.00061			
483154.33	3731089.88	0.00061		484158.53
3733886.47	0.00038			
484127.24	3733944.44	0.00038		480863.49
3734010.10	0.00081			
481969.25	3732847.29	0.00696		

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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
    \*\*\*      14:42:44

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

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER    5 YEARS \*\*\*

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

\*\*

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

ALL	1ST HIGHEST VALUE IS	0.02028 AT (	482109.67, 3733729.33,
433.00,	433.00, 0.00) DC		
	2ND HIGHEST VALUE IS	0.01732 AT (	482224.88, 3733718.77,
433.00,	433.00, 0.00) DC		
	3RD HIGHEST VALUE IS	0.01034 AT (	481678.55, 3733485.20,
433.00,	433.00, 0.00) DC		
	4TH HIGHEST VALUE IS	0.00982 AT (	482332.42, 3733529.19,
434.00,	434.00, 0.00) DC		
	5TH HIGHEST VALUE IS	0.00945 AT (	481674.68, 3733528.18,
432.59,	432.59, 0.00) DC		
	6TH HIGHEST VALUE IS	0.00696 AT (	481969.25, 3732847.29,
434.00,	434.00, 0.00) DC		
	7TH HIGHEST VALUE IS	0.00464 AT (	482129.97, 3732676.48,
435.00,	435.00, 0.00) DC		
	8TH HIGHEST VALUE IS	0.00423 AT (	482403.26, 3732672.44,

435.80, 435.80, 0.00) DC  
9TH HIGHEST VALUE IS 0.00371 AT ( 481632.16, 3732857.88,  
433.00, 433.00, 0.00) DC  
10TH HIGHEST VALUE IS 0.00344 AT ( 481674.81, 3732799.36,  
433.00, 433.00, 0.00) DC

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

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\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 14:42:44

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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 4 Warning Message(s)  
A Total of 2028 Informational Message(s)  
  
A Total of 43824 Hours Were Processed  
  
A Total of 978 Calm Hours Identified  
  
A Total of 1050 Missing Hours Identified ( 2.40 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1565 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 1565 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:  
14010101  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:  
2 year gap

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

\*\*\*\*\*

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 12/2/2022
** File: C:\Lakes\AERMOD View\14775-03 HRA Modeling Files\14775 Ethanac and
Barnett\14775 Ops\14775 Ops.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14775 Ethanac and Barnett\14775
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 2189641 Riverside_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "14775 Ops.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Bldg A Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.958E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 481953.029, 3733438.592, 433.00, 3.49, 4.00
** 482031.383, 3733438.592, 433.00, 3.49, 4.00
** -----

```

LOCATION L0000220	VOLUME	481957.324	3733438.592	433.00
LOCATION L0000221	VOLUME	481965.914	3733438.592	433.00
LOCATION L0000222	VOLUME	481974.504	3733438.592	433.00
LOCATION L0000223	VOLUME	481983.094	3733438.592	433.00
LOCATION L0000224	VOLUME	481991.684	3733438.592	433.00
LOCATION L0000225	VOLUME	482000.274	3733438.592	433.00
LOCATION L0000226	VOLUME	482008.864	3733438.592	433.00
LOCATION L0000227	VOLUME	482017.454	3733438.592	433.00
LOCATION L0000228	VOLUME	482026.044	3733438.592	433.00

\*\* End of LINE VOLUME Source ID = SLINE1

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC Bldg B Idle

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 8.958E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 481953.029, 3733311.434, 433.00, 3.49, 4.00

\*\* 482031.002, 3733311.434, 433.00, 3.49, 4.00

\*\* -----

LOCATION L0000229	VOLUME	481957.324	3733311.434	433.00
LOCATION L0000230	VOLUME	481965.914	3733311.434	433.00
LOCATION L0000231	VOLUME	481974.504	3733311.434	433.00
LOCATION L0000232	VOLUME	481983.094	3733311.434	433.00
LOCATION L0000233	VOLUME	481991.684	3733311.434	433.00
LOCATION L0000234	VOLUME	482000.274	3733311.434	433.00
LOCATION L0000235	VOLUME	482008.864	3733311.434	433.00
LOCATION L0000236	VOLUME	482017.454	3733311.434	433.00
LOCATION L0000237	VOLUME	482026.044	3733311.434	433.00

\*\* End of LINE VOLUME Source ID = SLINE2

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Onsite 1

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00001298

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 9

\*\* 482073.515, 3733291.798, 433.00, 3.49, 4.00

\*\* 481935.109, 3733291.226, 433.00, 3.49, 4.00

\*\* 481928.055, 3733293.132, 433.00, 3.49, 4.00

\*\* 481925.004, 3733298.470, 433.00, 3.49, 4.00

\*\* 481926.148, 3733441.070, 433.00, 3.49, 4.00

\*\* 481925.576, 3733533.532, 433.00, 3.49, 4.00  
\*\* 481929.771, 3733542.492, 433.00, 3.49, 4.00  
\*\* 481937.587, 3733545.733, 433.00, 3.49, 4.00  
\*\* 482070.846, 3733545.924, 433.00, 3.49, 4.00

\*\*

-----

LOCATION	L0000238	VOLUME	482069.220	3733291.780	433.00
LOCATION	L0000239	VOLUME	482060.630	3733291.744	433.00
LOCATION	L0000240	VOLUME	482052.040	3733291.709	433.00
LOCATION	L0000241	VOLUME	482043.450	3733291.673	433.00
LOCATION	L0000242	VOLUME	482034.860	3733291.638	433.00
LOCATION	L0000243	VOLUME	482026.270	3733291.602	433.00
LOCATION	L0000244	VOLUME	482017.680	3733291.567	433.00
LOCATION	L0000245	VOLUME	482009.090	3733291.531	433.00
LOCATION	L0000246	VOLUME	482000.500	3733291.496	433.00
LOCATION	L0000247	VOLUME	481991.911	3733291.460	433.00
LOCATION	L0000248	VOLUME	481983.321	3733291.425	433.00
LOCATION	L0000249	VOLUME	481974.731	3733291.389	433.00
LOCATION	L0000250	VOLUME	481966.141	3733291.354	433.00
LOCATION	L0000251	VOLUME	481957.551	3733291.318	433.00
LOCATION	L0000252	VOLUME	481948.961	3733291.283	433.00
LOCATION	L0000253	VOLUME	481940.371	3733291.247	433.00
LOCATION	L0000254	VOLUME	481931.896	3733292.094	433.00
LOCATION	L0000255	VOLUME	481925.767	3733297.135	433.00
LOCATION	L0000256	VOLUME	481925.061	3733305.522	433.00
LOCATION	L0000257	VOLUME	481925.130	3733314.112	433.00
LOCATION	L0000258	VOLUME	481925.199	3733322.702	433.00
LOCATION	L0000259	VOLUME	481925.268	3733331.292	433.00
LOCATION	L0000260	VOLUME	481925.337	3733339.881	433.00
LOCATION	L0000261	VOLUME	481925.406	3733348.471	433.00
LOCATION	L0000262	VOLUME	481925.474	3733357.061	433.00
LOCATION	L0000263	VOLUME	481925.543	3733365.651	433.00
LOCATION	L0000264	VOLUME	481925.612	3733374.240	433.00
LOCATION	L0000265	VOLUME	481925.681	3733382.830	433.00
LOCATION	L0000266	VOLUME	481925.750	3733391.420	433.00
LOCATION	L0000267	VOLUME	481925.819	3733400.009	433.00
LOCATION	L0000268	VOLUME	481925.888	3733408.599	433.00
LOCATION	L0000269	VOLUME	481925.957	3733417.189	433.00
LOCATION	L0000270	VOLUME	481926.026	3733425.779	433.00
LOCATION	L0000271	VOLUME	481926.095	3733434.368	433.00
LOCATION	L0000272	VOLUME	481926.137	3733442.958	433.00
LOCATION	L0000273	VOLUME	481926.084	3733451.548	433.00
LOCATION	L0000274	VOLUME	481926.030	3733460.138	433.00
LOCATION	L0000275	VOLUME	481925.977	3733468.728	433.00
LOCATION	L0000276	VOLUME	481925.924	3733477.317	433.00
LOCATION	L0000277	VOLUME	481925.871	3733485.907	433.00
LOCATION	L0000278	VOLUME	481925.818	3733494.497	433.00
LOCATION	L0000279	VOLUME	481925.765	3733503.087	433.00
LOCATION	L0000280	VOLUME	481925.712	3733511.677	433.00
LOCATION	L0000281	VOLUME	481925.658	3733520.267	433.00
LOCATION	L0000282	VOLUME	481925.605	3733528.856	433.00



LOCATION	VOLUME				
L0000283	481927.236	3733537.077	433.00		
L0000284	481932.183	3733543.492	433.00		
L0000285	481940.326	3733545.737	433.00		
L0000286	481948.916	3733545.749	433.00		
L0000287	481957.506	3733545.762	433.00		
L0000288	481966.096	3733545.774	433.00		
L0000289	481974.686	3733545.786	433.00		
L0000290	481983.276	3733545.798	433.00		
L0000291	481991.866	3733545.811	433.00		
L0000292	482000.456	3733545.823	433.00		
L0000293	482009.046	3733545.835	433.00		
L0000294	482017.636	3733545.848	433.00		
L0000295	482026.226	3733545.860	433.00		
L0000296	482034.816	3733545.872	433.00		
L0000297	482043.406	3733545.884	433.00		
L0000298	482051.996	3733545.897	433.00		
L0000299	482060.586	3733545.909	433.00		
L0000300	482069.176	3733545.921	433.00		

\*\* End of LINE VOLUME Source ID = SLINE3

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE4

\*\* DESCRSRC Onsite 2

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.397E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 482071.990, 3733417.240, 433.00, 3.49, 4.00

\*\* 481931.105, 3733417.812, 433.00, 3.49, 4.00

\*\*

LOCATION	VOLUME				
L0000301	482067.695	3733417.258	433.00		
L0000302	482059.105	3733417.292	433.00		
L0000303	482050.515	3733417.327	433.00		
L0000304	482041.925	3733417.362	433.00		
L0000305	482033.335	3733417.397	433.00		
L0000306	482024.745	3733417.432	433.00		
L0000307	482016.155	3733417.467	433.00		
L0000308	482007.565	3733417.502	433.00		
L0000309	481998.975	3733417.537	433.00		
L0000310	481990.385	3733417.571	433.00		
L0000311	481981.795	3733417.606	433.00		
L0000312	481973.206	3733417.641	433.00		
L0000313	481964.616	3733417.676	433.00		
L0000314	481956.026	3733417.711	433.00		
L0000315	481947.436	3733417.746	433.00		
L0000316	481938.846	3733417.781	433.00		

\*\* End of LINE VOLUME Source ID = SLINE4

```

** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Ethanac 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 4.786E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 482092.273, 3733680.890, 433.00, 3.49, 6.51
** 482570.497, 3733674.016, 434.00, 3.49, 6.51
** -----
LOCATION L0000317    VOLUME  482099.273 3733680.790 433.00
LOCATION L0000318    VOLUME  482113.271 3733680.589 433.00
LOCATION L0000319    VOLUME  482127.270 3733680.387 433.00
LOCATION L0000320    VOLUME  482141.268 3733680.186 433.00
LOCATION L0000321    VOLUME  482155.267 3733679.985 433.00
LOCATION L0000322    VOLUME  482169.265 3733679.784 433.00
LOCATION L0000323    VOLUME  482183.264 3733679.582 433.00
LOCATION L0000324    VOLUME  482197.262 3733679.381 433.00
LOCATION L0000325    VOLUME  482211.261 3733679.180 433.00
LOCATION L0000326    VOLUME  482225.259 3733678.979 433.00
LOCATION L0000327    VOLUME  482239.258 3733678.777 433.00
LOCATION L0000328    VOLUME  482253.257 3733678.576 433.00
LOCATION L0000329    VOLUME  482267.255 3733678.375 433.00
LOCATION L0000330    VOLUME  482281.254 3733678.174 433.00
LOCATION L0000331    VOLUME  482295.252 3733677.972 433.00
LOCATION L0000332    VOLUME  482309.251 3733677.771 433.00
LOCATION L0000333    VOLUME  482323.249 3733677.570 433.07
LOCATION L0000334    VOLUME  482337.248 3733677.369 433.36
LOCATION L0000335    VOLUME  482351.246 3733677.167 433.64
LOCATION L0000336    VOLUME  482365.245 3733676.966 433.82
LOCATION L0000337    VOLUME  482379.244 3733676.765 433.99
LOCATION L0000338    VOLUME  482393.242 3733676.564 434.00
LOCATION L0000339    VOLUME  482407.241 3733676.363 434.00
LOCATION L0000340    VOLUME  482421.239 3733676.161 434.00
LOCATION L0000341    VOLUME  482435.238 3733675.960 434.00
LOCATION L0000342    VOLUME  482449.236 3733675.759 434.00
LOCATION L0000343    VOLUME  482463.235 3733675.558 434.00
LOCATION L0000344    VOLUME  482477.233 3733675.356 434.00
LOCATION L0000345    VOLUME  482491.232 3733675.155 434.00
LOCATION L0000346    VOLUME  482505.231 3733674.954 434.00
LOCATION L0000347    VOLUME  482519.229 3733674.753 434.00
LOCATION L0000348    VOLUME  482533.228 3733674.551 434.00
LOCATION L0000349    VOLUME  482547.226 3733674.350 434.00
LOCATION L0000350    VOLUME  482561.225 3733674.149 434.00
** End of LINE VOLUME Source ID = SLINE6
** -----

```

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE7

\*\* DESCRSRC Barnett 100%

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.234E-06

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 482091.154, 3733547.029, 433.00, 3.49, 4.00

\*\* 482091.154, 3733670.352, 433.00, 3.49, 4.00

\*\*

```
-----  
LOCATION L0000351    VOLUME  482091.154 3733551.324 433.00  
LOCATION L0000352    VOLUME  482091.154 3733559.914 433.00  
LOCATION L0000353    VOLUME  482091.154 3733568.504 433.00  
LOCATION L0000354    VOLUME  482091.154 3733577.094 433.00  
LOCATION L0000355    VOLUME  482091.154 3733585.684 433.00  
LOCATION L0000356    VOLUME  482091.154 3733594.274 433.00  
LOCATION L0000357    VOLUME  482091.154 3733602.864 433.00  
LOCATION L0000358    VOLUME  482091.154 3733611.454 433.00  
LOCATION L0000359    VOLUME  482091.154 3733620.044 433.00  
LOCATION L0000360    VOLUME  482091.154 3733628.634 433.00  
LOCATION L0000361    VOLUME  482091.154 3733637.224 433.00  
LOCATION L0000362    VOLUME  482091.154 3733645.814 433.00  
LOCATION L0000363    VOLUME  482091.154 3733654.404 433.00  
LOCATION L0000364    VOLUME  482091.154 3733662.994 433.00
```

\*\* End of LINE VOLUME Source ID = SLINE7

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE8

\*\* DESCRSRC Barnett 70%

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 9.028E-07

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 482090.724, 3733545.310, 433.00, 3.49, 4.00

\*\* 482090.724, 3733416.401, 433.00, 3.49, 4.00

\*\*

```
-----  
LOCATION L0000365    VOLUME  482090.724 3733541.015 433.00  
LOCATION L0000366    VOLUME  482090.724 3733532.425 433.00  
LOCATION L0000367    VOLUME  482090.724 3733523.835 433.00  
LOCATION L0000368    VOLUME  482090.724 3733515.245 433.00  
LOCATION L0000369    VOLUME  482090.724 3733506.655 433.00  
LOCATION L0000370    VOLUME  482090.724 3733498.065 433.00  
LOCATION L0000371    VOLUME  482090.724 3733489.475 433.00  
LOCATION L0000372    VOLUME  482090.724 3733480.885 433.00
```

LOCATION L0000373	VOLUME	482090.724	3733472.295	433.00
LOCATION L0000374	VOLUME	482090.724	3733463.705	433.00
LOCATION L0000375	VOLUME	482090.724	3733455.115	433.00
LOCATION L0000376	VOLUME	482090.724	3733446.525	433.00
LOCATION L0000377	VOLUME	482090.724	3733437.935	433.00
LOCATION L0000378	VOLUME	482090.724	3733429.345	433.00
LOCATION L0000379	VOLUME	482090.724	3733420.755	433.00

\*\* End of LINE VOLUME Source ID = SLINE8

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE9

\*\* DESCRSRC Barnett 30%

\*\* PREFIX

\*\* Length of Side = 8.59

\*\* Configuration = Adjacent

\*\* Emission Rate = 3.785E-07

\*\* Vertical Dimension = 6.99

\*\* SZINIT = 3.25

\*\* Nodes = 2

\*\* 482090.292, 3733416.128, 433.00, 3.49, 4.00

\*\* 482089.237, 3733289.988, 433.00, 3.49, 4.00

\*\* -----

LOCATION L0000380	VOLUME	482090.256	3733411.833	433.00
LOCATION L0000381	VOLUME	482090.185	3733403.243	433.00
LOCATION L0000382	VOLUME	482090.113	3733394.654	433.00
LOCATION L0000383	VOLUME	482090.041	3733386.064	433.00
LOCATION L0000384	VOLUME	482089.969	3733377.474	433.00
LOCATION L0000385	VOLUME	482089.897	3733368.885	433.00
LOCATION L0000386	VOLUME	482089.825	3733360.295	433.00
LOCATION L0000387	VOLUME	482089.753	3733351.705	433.00
LOCATION L0000388	VOLUME	482089.681	3733343.116	433.00
LOCATION L0000389	VOLUME	482089.610	3733334.526	433.00
LOCATION L0000390	VOLUME	482089.538	3733325.936	433.00
LOCATION L0000391	VOLUME	482089.466	3733317.346	433.00
LOCATION L0000392	VOLUME	482089.394	3733308.757	433.00
LOCATION L0000393	VOLUME	482089.322	3733300.167	433.00
LOCATION L0000394	VOLUME	482089.250	3733291.577	433.00

\*\* End of LINE VOLUME Source ID = SLINE9

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = SLINE1

SRCPARAM L0000220	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000221	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000222	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000223	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000224	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000225	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000226	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000227	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000228	0.0000009953	3.49	4.00	3.25

\*\* -----

\*\* LINE VOLUME Source ID = SLINE2

SRCPARAM L0000229	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000230	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000231	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000232	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000233	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000234	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000235	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000236	0.0000009953	3.49	4.00	3.25
SRCPARAM L0000237	0.0000009953	3.49	4.00	3.25

\*\* -----

\*\* LINE VOLUME Source ID = SLINE3

SRCPARAM L0000238	0.000000206	3.49	4.00	3.25
SRCPARAM L0000239	0.000000206	3.49	4.00	3.25
SRCPARAM L0000240	0.000000206	3.49	4.00	3.25
SRCPARAM L0000241	0.000000206	3.49	4.00	3.25
SRCPARAM L0000242	0.000000206	3.49	4.00	3.25
SRCPARAM L0000243	0.000000206	3.49	4.00	3.25
SRCPARAM L0000244	0.000000206	3.49	4.00	3.25
SRCPARAM L0000245	0.000000206	3.49	4.00	3.25
SRCPARAM L0000246	0.000000206	3.49	4.00	3.25
SRCPARAM L0000247	0.000000206	3.49	4.00	3.25
SRCPARAM L0000248	0.000000206	3.49	4.00	3.25
SRCPARAM L0000249	0.000000206	3.49	4.00	3.25
SRCPARAM L0000250	0.000000206	3.49	4.00	3.25
SRCPARAM L0000251	0.000000206	3.49	4.00	3.25
SRCPARAM L0000252	0.000000206	3.49	4.00	3.25
SRCPARAM L0000253	0.000000206	3.49	4.00	3.25
SRCPARAM L0000254	0.000000206	3.49	4.00	3.25
SRCPARAM L0000255	0.000000206	3.49	4.00	3.25
SRCPARAM L0000256	0.000000206	3.49	4.00	3.25
SRCPARAM L0000257	0.000000206	3.49	4.00	3.25
SRCPARAM L0000258	0.000000206	3.49	4.00	3.25
SRCPARAM L0000259	0.000000206	3.49	4.00	3.25
SRCPARAM L0000260	0.000000206	3.49	4.00	3.25
SRCPARAM L0000261	0.000000206	3.49	4.00	3.25
SRCPARAM L0000262	0.000000206	3.49	4.00	3.25
SRCPARAM L0000263	0.000000206	3.49	4.00	3.25
SRCPARAM L0000264	0.000000206	3.49	4.00	3.25
SRCPARAM L0000265	0.000000206	3.49	4.00	3.25
SRCPARAM L0000266	0.000000206	3.49	4.00	3.25
SRCPARAM L0000267	0.000000206	3.49	4.00	3.25
SRCPARAM L0000268	0.000000206	3.49	4.00	3.25
SRCPARAM L0000269	0.000000206	3.49	4.00	3.25
SRCPARAM L0000270	0.000000206	3.49	4.00	3.25
SRCPARAM L0000271	0.000000206	3.49	4.00	3.25
SRCPARAM L0000272	0.000000206	3.49	4.00	3.25
SRCPARAM L0000273	0.000000206	3.49	4.00	3.25
SRCPARAM L0000274	0.000000206	3.49	4.00	3.25
SRCPARAM L0000275	0.000000206	3.49	4.00	3.25

SRCPARAM	L0000276	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000277	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000278	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000279	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000280	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000281	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000282	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000283	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000284	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000285	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000286	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000287	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000288	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000289	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000290	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000291	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000292	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000293	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000294	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000295	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000296	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000297	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000298	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000299	0.000000206	3.49	4.00	3.25
SRCPARAM	L0000300	0.000000206	3.49	4.00	3.25

\*\*

\*\* LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000301	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000302	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000303	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000304	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000305	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000306	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000307	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000308	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000309	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000310	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000311	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000312	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000313	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000314	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000315	0.0000002123	3.49	4.00	3.25
SRCPARAM	L0000316	0.0000002123	3.49	4.00	3.25

\*\*

\*\* LINE VOLUME Source ID = SLINE6

SRCPARAM	L0000317	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000318	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000319	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000320	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000321	0.0000001408	3.49	6.51	3.25

SRCPARAM	L0000322	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000323	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000324	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000325	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000326	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000327	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000328	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000329	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000330	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000331	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000332	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000333	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000334	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000335	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000336	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000337	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000338	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000339	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000340	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000341	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000342	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000343	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000344	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000345	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000346	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000347	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000348	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000349	0.0000001408	3.49	6.51	3.25
SRCPARAM	L0000350	0.0000001408	3.49	6.51	3.25

\*\*

\*\* LINE VOLUME Source ID = SLINE7

SRCPARAM	L0000351	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000352	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000353	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000354	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000355	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000356	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000357	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000358	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000359	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000360	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000361	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000362	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000363	0.00000008814	3.49	4.00	3.25
SRCPARAM	L0000364	0.00000008814	3.49	4.00	3.25

\*\*

\*\* LINE VOLUME Source ID = SLINE8

SRCPARAM	L0000365	0.00000006019	3.49	4.00	3.25
SRCPARAM	L0000366	0.00000006019	3.49	4.00	3.25
SRCPARAM	L0000367	0.00000006019	3.49	4.00	3.25

SRCPARAM L0000368	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000369	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000370	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000371	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000372	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000373	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000374	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000375	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000376	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000377	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000378	0.00000006019	3.49	4.00	3.25
SRCPARAM L0000379	0.00000006019	3.49	4.00	3.25

\*\*

\*\* LINE VOLUME Source ID = SLINE9

SRCPARAM L0000380	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000381	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000382	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000383	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000384	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000385	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000386	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000387	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000388	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000389	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000390	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000391	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000392	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000393	0.00000002523	3.49	4.00	3.25
SRCPARAM L0000394	0.00000002523	3.49	4.00	3.25

\*\*

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED "14775 Ops.rou"

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE PERI\_V9\_ADJU\PERI\_v9.SFC



PROFFILE PERI\_V9\_ADJU\PERI\_v9.PFL  
SURFDATA 3171 2010  
UAIRDATA 3190 2010  
SITEDATA 99999 2010  
PROFBASE 442.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

\*\* Auto-Generated Plotfiles

PLOTFILE ANNUAL ALL "14775 Ops.AD\AN00GALL.PLT" 31

SUMMFILE "14775 Ops.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     555            MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
            0.50  
ME W187     555            MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET

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

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

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

\*\* Model Options Selected:

- \* Model Uses Regulatory DEFAULT Options
- \* Model Is Setup For Calculation of Average CONCentration Values.
- \* NO GAS DEPOSITION Data Provided.
- \* NO PARTICLE DEPOSITION Data Provided.
- \* Model Uses NO DRY DEPLETION. DDPLETE = F
- \* Model Uses NO WET DEPLETION. WETDPLT = F
- \* Stack-tip Downwash.
- \* Model Accounts for ELEVated Terrain Effects.
- \* Use Calms Processing Routine.
- \* Use Missing Data Processing Routine.
- \* No Exponential Decay.
- \* Model Uses URBAN Dispersion Algorithm for the SBL for 175 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
- \* Urban Roughness Length of 1.0 Meter Used.
- \* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET
- \* CCVR\_Sub - Meteorological data includes CCVR substitutions
- \* TEMP\_Sub - Meteorological data includes TEMP substitutions
- \* Model Assumes No FLAGPOLE Receptor Heights.
- \* The User Specified a Pollutant Type of: DPM

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 175 Source(s); 1 Source Group(s); and 21 Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 175 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

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

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor  
Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

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

Hours

b for Both Calm

and Missing Hours

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

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

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 14775 Ops.err

\*\*File for Summary of Results: 14775 Ops.sum

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

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

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

L0000220		0	0.99530E-06	481957.3	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000221		0	0.99530E-06	481965.9	3733438.6	433.0	3.49	4.00

3.25	YES							
L0000222		0	0.99530E-06	481974.5	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000223		0	0.99530E-06	481983.1	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000224		0	0.99530E-06	481991.7	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000225		0	0.99530E-06	482000.3	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000226		0	0.99530E-06	482008.9	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000227		0	0.99530E-06	482017.5	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000228		0	0.99530E-06	482026.0	3733438.6	433.0	3.49	4.00
3.25	YES							
L0000229		0	0.99530E-06	481957.3	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000230		0	0.99530E-06	481965.9	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000231		0	0.99530E-06	481974.5	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000232		0	0.99530E-06	481983.1	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000233		0	0.99530E-06	481991.7	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000234		0	0.99530E-06	482000.3	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000235		0	0.99530E-06	482008.9	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000236		0	0.99530E-06	482017.5	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000237		0	0.99530E-06	482026.0	3733311.4	433.0	3.49	4.00
3.25	YES							
L0000238		0	0.20600E-06	482069.2	3733291.8	433.0	3.49	4.00
3.25	YES							
L0000239		0	0.20600E-06	482060.6	3733291.7	433.0	3.49	4.00
3.25	YES							
L0000240		0	0.20600E-06	482052.0	3733291.7	433.0	3.49	4.00
3.25	YES							
L0000241		0	0.20600E-06	482043.5	3733291.7	433.0	3.49	4.00
3.25	YES							
L0000242		0	0.20600E-06	482034.9	3733291.6	433.0	3.49	4.00
3.25	YES							
L0000243		0	0.20600E-06	482026.3	3733291.6	433.0	3.49	4.00
3.25	YES							
L0000244		0	0.20600E-06	482017.7	3733291.6	433.0	3.49	4.00
3.25	YES							
L0000245		0	0.20600E-06	482009.1	3733291.5	433.0	3.49	4.00
3.25	YES							
L0000246		0	0.20600E-06	482000.5	3733291.5	433.0	3.49	4.00

3.25	YES							
L0000247		0	0.20600E-06	481991.9	3733291.5	433.0	3.49	4.00
3.25	YES							
L0000248		0	0.20600E-06	481983.3	3733291.4	433.0	3.49	4.00
3.25	YES							
L0000249		0	0.20600E-06	481974.7	3733291.4	433.0	3.49	4.00
3.25	YES							
L0000250		0	0.20600E-06	481966.1	3733291.4	433.0	3.49	4.00
3.25	YES							
L0000251		0	0.20600E-06	481957.6	3733291.3	433.0	3.49	4.00
3.25	YES							
L0000252		0	0.20600E-06	481949.0	3733291.3	433.0	3.49	4.00
3.25	YES							
L0000253		0	0.20600E-06	481940.4	3733291.2	433.0	3.49	4.00
3.25	YES							
L0000254		0	0.20600E-06	481931.9	3733292.1	433.0	3.49	4.00
3.25	YES							
L0000255		0	0.20600E-06	481925.8	3733297.1	433.0	3.49	4.00
3.25	YES							
L0000256		0	0.20600E-06	481925.1	3733305.5	433.0	3.49	4.00
3.25	YES							
L0000257		0	0.20600E-06	481925.1	3733314.1	433.0	3.49	4.00
3.25	YES							
L0000258		0	0.20600E-06	481925.2	3733322.7	433.0	3.49	4.00
3.25	YES							
L0000259		0	0.20600E-06	481925.3	3733331.3	433.0	3.49	4.00

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

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

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

L0000260		0	0.20600E-06	481925.3	3733339.9	433.0	3.49	4.00
3.25	YES							
L0000261		0	0.20600E-06	481925.4	3733348.5	433.0	3.49	4.00

3.25	YES							
L0000262		0	0.20600E-06	481925.5	3733357.1	433.0	3.49	4.00
3.25	YES							
L0000263		0	0.20600E-06	481925.5	3733365.7	433.0	3.49	4.00
3.25	YES							
L0000264		0	0.20600E-06	481925.6	3733374.2	433.0	3.49	4.00
3.25	YES							
L0000265		0	0.20600E-06	481925.7	3733382.8	433.0	3.49	4.00
3.25	YES							
L0000266		0	0.20600E-06	481925.8	3733391.4	433.0	3.49	4.00
3.25	YES							
L0000267		0	0.20600E-06	481925.8	3733400.0	433.0	3.49	4.00
3.25	YES							
L0000268		0	0.20600E-06	481925.9	3733408.6	433.0	3.49	4.00
3.25	YES							
L0000269		0	0.20600E-06	481926.0	3733417.2	433.0	3.49	4.00
3.25	YES							
L0000270		0	0.20600E-06	481926.0	3733425.8	433.0	3.49	4.00
3.25	YES							
L0000271		0	0.20600E-06	481926.1	3733434.4	433.0	3.49	4.00
3.25	YES							
L0000272		0	0.20600E-06	481926.1	3733443.0	433.0	3.49	4.00
3.25	YES							
L0000273		0	0.20600E-06	481926.1	3733451.5	433.0	3.49	4.00
3.25	YES							
L0000274		0	0.20600E-06	481926.0	3733460.1	433.0	3.49	4.00
3.25	YES							
L0000275		0	0.20600E-06	481926.0	3733468.7	433.0	3.49	4.00
3.25	YES							
L0000276		0	0.20600E-06	481925.9	3733477.3	433.0	3.49	4.00
3.25	YES							
L0000277		0	0.20600E-06	481925.9	3733485.9	433.0	3.49	4.00
3.25	YES							
L0000278		0	0.20600E-06	481925.8	3733494.5	433.0	3.49	4.00
3.25	YES							
L0000279		0	0.20600E-06	481925.8	3733503.1	433.0	3.49	4.00
3.25	YES							
L0000280		0	0.20600E-06	481925.7	3733511.7	433.0	3.49	4.00
3.25	YES							
L0000281		0	0.20600E-06	481925.7	3733520.3	433.0	3.49	4.00
3.25	YES							
L0000282		0	0.20600E-06	481925.6	3733528.9	433.0	3.49	4.00
3.25	YES							
L0000283		0	0.20600E-06	481927.2	3733537.1	433.0	3.49	4.00
3.25	YES							
L0000284		0	0.20600E-06	481932.2	3733543.5	433.0	3.49	4.00
3.25	YES							
L0000285		0	0.20600E-06	481940.3	3733545.7	433.0	3.49	4.00
3.25	YES							
L0000286		0	0.20600E-06	481948.9	3733545.7	433.0	3.49	4.00

3.25	YES	L0000287	0	0.20600E-06	481957.5	3733545.8	433.0	3.49	4.00
3.25	YES	L0000288	0	0.20600E-06	481966.1	3733545.8	433.0	3.49	4.00
3.25	YES	L0000289	0	0.20600E-06	481974.7	3733545.8	433.0	3.49	4.00
3.25	YES	L0000290	0	0.20600E-06	481983.3	3733545.8	433.0	3.49	4.00
3.25	YES	L0000291	0	0.20600E-06	481991.9	3733545.8	433.0	3.49	4.00
3.25	YES	L0000292	0	0.20600E-06	482000.5	3733545.8	433.0	3.49	4.00
3.25	YES	L0000293	0	0.20600E-06	482009.0	3733545.8	433.0	3.49	4.00
3.25	YES	L0000294	0	0.20600E-06	482017.6	3733545.8	433.0	3.49	4.00
3.25	YES	L0000295	0	0.20600E-06	482026.2	3733545.9	433.0	3.49	4.00
3.25	YES	L0000296	0	0.20600E-06	482034.8	3733545.9	433.0	3.49	4.00
3.25	YES	L0000297	0	0.20600E-06	482043.4	3733545.9	433.0	3.49	4.00
3.25	YES	L0000298	0	0.20600E-06	482052.0	3733545.9	433.0	3.49	4.00
3.25	YES	L0000299	0	0.20600E-06	482060.6	3733545.9	433.0	3.49	4.00

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

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

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

3.25	YES	L0000300	0	0.20600E-06	482069.2	3733545.9	433.0	3.49	4.00
		L0000301	0	0.21230E-06	482067.7	3733417.3	433.0	3.49	4.00

3.25	YES							
L0000302		0	0.21230E-06	482059.1	3733417.3	433.0	3.49	4.00
3.25	YES							
L0000303		0	0.21230E-06	482050.5	3733417.3	433.0	3.49	4.00
3.25	YES							
L0000304		0	0.21230E-06	482041.9	3733417.4	433.0	3.49	4.00
3.25	YES							
L0000305		0	0.21230E-06	482033.3	3733417.4	433.0	3.49	4.00
3.25	YES							
L0000306		0	0.21230E-06	482024.7	3733417.4	433.0	3.49	4.00
3.25	YES							
L0000307		0	0.21230E-06	482016.2	3733417.5	433.0	3.49	4.00
3.25	YES							
L0000308		0	0.21230E-06	482007.6	3733417.5	433.0	3.49	4.00
3.25	YES							
L0000309		0	0.21230E-06	481999.0	3733417.5	433.0	3.49	4.00
3.25	YES							
L0000310		0	0.21230E-06	481990.4	3733417.6	433.0	3.49	4.00
3.25	YES							
L0000311		0	0.21230E-06	481981.8	3733417.6	433.0	3.49	4.00
3.25	YES							
L0000312		0	0.21230E-06	481973.2	3733417.6	433.0	3.49	4.00
3.25	YES							
L0000313		0	0.21230E-06	481964.6	3733417.7	433.0	3.49	4.00
3.25	YES							
L0000314		0	0.21230E-06	481956.0	3733417.7	433.0	3.49	4.00
3.25	YES							
L0000315		0	0.21230E-06	481947.4	3733417.7	433.0	3.49	4.00
3.25	YES							
L0000316		0	0.21230E-06	481938.8	3733417.8	433.0	3.49	4.00
3.25	YES							
L0000317		0	0.14080E-06	482099.3	3733680.8	433.0	3.49	6.51
3.25	YES							
L0000318		0	0.14080E-06	482113.3	3733680.6	433.0	3.49	6.51
3.25	YES							
L0000319		0	0.14080E-06	482127.3	3733680.4	433.0	3.49	6.51
3.25	YES							
L0000320		0	0.14080E-06	482141.3	3733680.2	433.0	3.49	6.51
3.25	YES							
L0000321		0	0.14080E-06	482155.3	3733680.0	433.0	3.49	6.51
3.25	YES							
L0000322		0	0.14080E-06	482169.3	3733679.8	433.0	3.49	6.51
3.25	YES							
L0000323		0	0.14080E-06	482183.3	3733679.6	433.0	3.49	6.51
3.25	YES							
L0000324		0	0.14080E-06	482197.3	3733679.4	433.0	3.49	6.51
3.25	YES							
L0000325		0	0.14080E-06	482211.3	3733679.2	433.0	3.49	6.51
3.25	YES							
L0000326		0	0.14080E-06	482225.3	3733679.0	433.0	3.49	6.51



3.25	YES							
L0000327		0	0.14080E-06	482239.3	3733678.8	433.0	3.49	6.51
3.25	YES							
L0000328		0	0.14080E-06	482253.3	3733678.6	433.0	3.49	6.51
3.25	YES							
L0000329		0	0.14080E-06	482267.3	3733678.4	433.0	3.49	6.51
3.25	YES							
L0000330		0	0.14080E-06	482281.3	3733678.2	433.0	3.49	6.51
3.25	YES							
L0000331		0	0.14080E-06	482295.3	3733678.0	433.0	3.49	6.51
3.25	YES							
L0000332		0	0.14080E-06	482309.3	3733677.8	433.0	3.49	6.51
3.25	YES							
L0000333		0	0.14080E-06	482323.2	3733677.6	433.1	3.49	6.51
3.25	YES							
L0000334		0	0.14080E-06	482337.2	3733677.4	433.4	3.49	6.51
3.25	YES							
L0000335		0	0.14080E-06	482351.2	3733677.2	433.6	3.49	6.51
3.25	YES							
L0000336		0	0.14080E-06	482365.2	3733677.0	433.8	3.49	6.51
3.25	YES							
L0000337		0	0.14080E-06	482379.2	3733676.8	434.0	3.49	6.51
3.25	YES							
L0000338		0	0.14080E-06	482393.2	3733676.6	434.0	3.49	6.51
3.25	YES							
L0000339		0	0.14080E-06	482407.2	3733676.4	434.0	3.49	6.51

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

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

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

L0000340		0	0.14080E-06	482421.2	3733676.2	434.0	3.49	6.51
3.25	YES							
L0000341		0	0.14080E-06	482435.2	3733676.0	434.0	3.49	6.51

3.25	YES							
L0000342		0	0.14080E-06	482449.2	3733675.8	434.0	3.49	6.51
3.25	YES							
L0000343		0	0.14080E-06	482463.2	3733675.6	434.0	3.49	6.51
3.25	YES							
L0000344		0	0.14080E-06	482477.2	3733675.4	434.0	3.49	6.51
3.25	YES							
L0000345		0	0.14080E-06	482491.2	3733675.2	434.0	3.49	6.51
3.25	YES							
L0000346		0	0.14080E-06	482505.2	3733675.0	434.0	3.49	6.51
3.25	YES							
L0000347		0	0.14080E-06	482519.2	3733674.8	434.0	3.49	6.51
3.25	YES							
L0000348		0	0.14080E-06	482533.2	3733674.6	434.0	3.49	6.51
3.25	YES							
L0000349		0	0.14080E-06	482547.2	3733674.3	434.0	3.49	6.51
3.25	YES							
L0000350		0	0.14080E-06	482561.2	3733674.1	434.0	3.49	6.51
3.25	YES							
L0000351		0	0.88140E-07	482091.2	3733551.3	433.0	3.49	4.00
3.25	YES							
L0000352		0	0.88140E-07	482091.2	3733559.9	433.0	3.49	4.00
3.25	YES							
L0000353		0	0.88140E-07	482091.2	3733568.5	433.0	3.49	4.00
3.25	YES							
L0000354		0	0.88140E-07	482091.2	3733577.1	433.0	3.49	4.00
3.25	YES							
L0000355		0	0.88140E-07	482091.2	3733585.7	433.0	3.49	4.00
3.25	YES							
L0000356		0	0.88140E-07	482091.2	3733594.3	433.0	3.49	4.00
3.25	YES							
L0000357		0	0.88140E-07	482091.2	3733602.9	433.0	3.49	4.00
3.25	YES							
L0000358		0	0.88140E-07	482091.2	3733611.5	433.0	3.49	4.00
3.25	YES							
L0000359		0	0.88140E-07	482091.2	3733620.0	433.0	3.49	4.00
3.25	YES							
L0000360		0	0.88140E-07	482091.2	3733628.6	433.0	3.49	4.00
3.25	YES							
L0000361		0	0.88140E-07	482091.2	3733637.2	433.0	3.49	4.00
3.25	YES							
L0000362		0	0.88140E-07	482091.2	3733645.8	433.0	3.49	4.00
3.25	YES							
L0000363		0	0.88140E-07	482091.2	3733654.4	433.0	3.49	4.00
3.25	YES							
L0000364		0	0.88140E-07	482091.2	3733663.0	433.0	3.49	4.00
3.25	YES							
L0000365		0	0.60190E-07	482090.7	3733541.0	433.0	3.49	4.00
3.25	YES							
L0000366		0	0.60190E-07	482090.7	3733532.4	433.0	3.49	4.00

3.25	YES	L0000367	0	0.60190E-07	482090.7	3733523.8	433.0	3.49	4.00
3.25	YES	L0000368	0	0.60190E-07	482090.7	3733515.2	433.0	3.49	4.00
3.25	YES	L0000369	0	0.60190E-07	482090.7	3733506.7	433.0	3.49	4.00
3.25	YES	L0000370	0	0.60190E-07	482090.7	3733498.1	433.0	3.49	4.00
3.25	YES	L0000371	0	0.60190E-07	482090.7	3733489.5	433.0	3.49	4.00
3.25	YES	L0000372	0	0.60190E-07	482090.7	3733480.9	433.0	3.49	4.00
3.25	YES	L0000373	0	0.60190E-07	482090.7	3733472.3	433.0	3.49	4.00
3.25	YES	L0000374	0	0.60190E-07	482090.7	3733463.7	433.0	3.49	4.00
3.25	YES	L0000375	0	0.60190E-07	482090.7	3733455.1	433.0	3.49	4.00
3.25	YES	L0000376	0	0.60190E-07	482090.7	3733446.5	433.0	3.49	4.00
3.25	YES	L0000377	0	0.60190E-07	482090.7	3733437.9	433.0	3.49	4.00
3.25	YES	L0000378	0	0.60190E-07	482090.7	3733429.3	433.0	3.49	4.00
3.25	YES	L0000379	0	0.60190E-07	482090.7	3733420.8	433.0	3.49	4.00

▲ \*\*\* AERMOD - VERSION 22112 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

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

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

3.25	YES	L0000380	0	0.25230E-07	482090.3	3733411.8	433.0	3.49	4.00
		L0000381	0	0.25230E-07	482090.2	3733403.2	433.0	3.49	4.00

3.25	YES							
L0000382		0	0.25230E-07	482090.1	3733394.7	433.0	3.49	4.00
3.25	YES							
L0000383		0	0.25230E-07	482090.0	3733386.1	433.0	3.49	4.00
3.25	YES							
L0000384		0	0.25230E-07	482090.0	3733377.5	433.0	3.49	4.00
3.25	YES							
L0000385		0	0.25230E-07	482089.9	3733368.9	433.0	3.49	4.00
3.25	YES							
L0000386		0	0.25230E-07	482089.8	3733360.3	433.0	3.49	4.00
3.25	YES							
L0000387		0	0.25230E-07	482089.8	3733351.7	433.0	3.49	4.00
3.25	YES							
L0000388		0	0.25230E-07	482089.7	3733343.1	433.0	3.49	4.00
3.25	YES							
L0000389		0	0.25230E-07	482089.6	3733334.5	433.0	3.49	4.00
3.25	YES							
L0000390		0	0.25230E-07	482089.5	3733325.9	433.0	3.49	4.00
3.25	YES							
L0000391		0	0.25230E-07	482089.5	3733317.3	433.0	3.49	4.00
3.25	YES							
L0000392		0	0.25230E-07	482089.4	3733308.8	433.0	3.49	4.00
3.25	YES							
L0000393		0	0.25230E-07	482089.3	3733300.2	433.0	3.49	4.00
3.25	YES							
L0000394		0	0.25230E-07	482089.2	3733291.6	433.0	3.49	4.00

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
-----	-----
ALL	L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
L0000225	, L0000226 , L0000227 ,
L0000233	, L0000228 , L0000229 , L0000230 , L0000231 , L0000232 ,
	, L0000234 , L0000235 ,
	L0000236 , L0000237 , L0000238 , L0000239 , L0000240 ,

L0000241 , L0000242 , L0000243 ,  
L0000249 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 ,  
L0000257 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 ,  
L0000265 , L0000258 , L0000259 , L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,  
L0000273 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,  
L0000281 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 ,  
L0000289 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 , L0000288 ,  
L0000297 , L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 ,  
L0000305 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304 ,  
L0000313 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312 ,  
L0000321 , L0000314 , L0000315 , L0000316 , L0000317 , L0000318 , L0000319 , L0000320 ,  
L0000329 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 , L0000327 , L0000328 ,  
L0000337 , L0000330 , L0000331 , L0000332 , L0000333 , L0000334 , L0000335 , L0000336 ,  
L0000345 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 ,  
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L0000370 , L0000371 ,

L0000372 , L0000373 , L0000374 , L0000375 , L0000376 ,  
 L0000377 , L0000378 , L0000379 ,  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

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L0000380 , L0000381 , L0000382 , L0000383 , L0000384 ,  
 L0000385 , L0000386 , L0000387 ,

L0000388 , L0000389 , L0000390 , L0000391 , L0000392 ,  
 L0000393 , L0000394 ,

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

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

\*\*\*

URBAN ID

URBAN POP

SOURCE IDs

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2189641. L0000220 , L0000221 , L0000222 , L0000223 ,  
 L0000224 , L0000225 , L0000226 ,  
 L0000227 ,

L0000228 , L0000229 , L0000230 , L0000231 , L0000232 ,  
 L0000233 , L0000234 , L0000235 ,

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 L0000361 , L0000362 , L0000363 ,  
 L0000364 , L0000365 , L0000366 , L0000367 , L0000368 ,  
 L0000369 , L0000370 , L0000371 ,  
 L0000372 , L0000373 , L0000374 , L0000375 , L0000376 ,  
 L0000377 , L0000378 , L0000379 ,

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

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

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000385	L0000380 , L0000381 , L0000382 , L0000383 , L0000384 , L0000385 , L0000386 , L0000387 ,	
L0000393	L0000388 , L0000389 , L0000390 , L0000391 , L0000392 , L0000393 , L0000394 ,	

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

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

( 481674.7, 3733528.2, 432.6, 432.6, 0.0);	( 481678.5, 3733485.2, 433.0, 433.0, 0.0);
( 482332.4, 3733529.2, 434.0, 434.0, 0.0);	( 482109.7, 3733729.3, 433.0, 433.0, 0.0);
( 482224.9, 3733718.8, 433.0, 433.0, 0.0);	( 481358.9, 3733604.3, 432.0, 432.0, 0.0);
( 481263.4, 3733447.0, 432.0, 432.0, 0.0);	( 481263.1, 3733556.7, 431.8, 431.8, 0.0);
( 481632.2, 3732857.9, 433.0, 433.0, 0.0);	( 482685.2, 3732853.1, 435.0, 435.0, 0.0);
( 482130.0, 3732676.5, 435.0, 435.0, 0.0);	( 482403.3, 3732672.4, 435.8, 435.8, 0.0);
( 481674.8, 3732799.4, 433.0, 433.0, 0.0);	( 482838.5, 3733632.3, 435.0, 435.0, 0.0);
( 483293.6, 3733685.7, 436.0, 436.0, 0.0);	( 483197.2, 3731112.9, 441.2, 651.0, 0.0);
( 483154.3, 3731089.9, 441.0, 651.0, 0.0);	( 484158.5, 3733886.5, 441.5, 441.5, 0.0);





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

DATA \*\*\*

Surface file: PERI\_V9\_ADJU\PERI\_v9.SFC

Met Version: 16216

Profile file: PERI\_V9\_ADJU\PERI\_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171  
Name: UNKNOWN

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2010

Year: 2010

First 24 hours of scalar data

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

10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61
0.27	1.80	53.			9.1	293.8	5.5						
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61
0.36	1.80	11.			9.1	292.5	5.5						
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61
0.64	0.90	351.			9.1	290.4	5.5						
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61
1.00	0.90	186.			9.1	287.5	5.5						
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61
1.00	0.90	275.			9.1	285.9	5.5						
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61
1.00	0.40	181.			9.1	285.4	5.5						
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61
1.00	1.30	318.			9.1	284.9	5.5						
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61
1.00	0.90	196.			9.1	283.1	5.5						
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61
1.00	0.90	330.			9.1	281.4	5.5						
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61
1.00	1.30	332.			9.1	280.9	5.5						

First hour of profile data

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

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

^ \*\*\* AERMOD - VERSION 22112 \*\*\*      \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
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 \*\*\* AERMET - VERSION 16216 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN    ADJ\_U\*

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*

INCLUDING SOURCE(S):      L0000220      ,      L0000221  
 , L0000222      , L0000223      , L0000224      ,  
    L0000225      , L0000226      , L0000227      , L0000228      , L0000229  
 , L0000230      , L0000231      , L0000232      ,  
    L0000233      , L0000234      , L0000235      , L0000236      , L0000237  
 , L0000238      , L0000239      , L0000240      ,  
    L0000241      , L0000242      , L0000243      , L0000244      , L0000245  
 , L0000246      , L0000247      ,      .      .      .      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*



ALL 1ST HIGHEST VALUE IS 0.00079 AT ( 482224.88, 3733718.77,  
 433.00, 433.00, 0.00) DC  
 2ND HIGHEST VALUE IS 0.00072 AT ( 482109.67, 3733729.33,  
 433.00, 433.00, 0.00) DC  
 3RD HIGHEST VALUE IS 0.00044 AT ( 482332.42, 3733529.19,  
 434.00, 434.00, 0.00) DC  
 4TH HIGHEST VALUE IS 0.00038 AT ( 481678.55, 3733485.20,  
 433.00, 433.00, 0.00) DC  
 5TH HIGHEST VALUE IS 0.00035 AT ( 481674.68, 3733528.18,  
 432.59, 432.59, 0.00) DC  
 6TH HIGHEST VALUE IS 0.00018 AT ( 481969.25, 3732847.29,  
 434.00, 434.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.00012 AT ( 481632.16, 3732857.88,  
 433.00, 433.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.00012 AT ( 482129.97, 3732676.48,  
 435.00, 435.00, 0.00) DC  
 9TH HIGHEST VALUE IS 0.00012 AT ( 481674.81, 3732799.36,  
 433.00, 433.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.00011 AT ( 481358.93, 3733604.26,  
 432.00, 432.00, 0.00) DC

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

^ \*\*\* AERMOD - VERSION 22112 \*\*\* \*\*\* C:\Users\Michael Tirohn\Desktop\HRAs\14775  
 Ethanac and Barnett\14775 \*\*\* 12/02/22  
 \*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
 \*\*\* 14:49:17

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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 4 Warning Message(s)  
 A Total of 2028 Informational Message(s)  
 A Total of 43824 Hours Were Processed  
 A Total of 978 Calm Hours Identified  
 A Total of 1050 Missing Hours Identified ( 2.40 Percent)

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

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

ME W186 555 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed threshold used  
0.50  
ME W187 555 MEOPEN: ADJ\_U\* Option for Stable Low Winds used in AERMET  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:  
14010101  
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at:  
2 year gap

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

**APPENDIX 2.4:**  
**RISK CALCULATIONS**

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Table 1  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
0-2 Age Bin Exposure Scenario - Construction Activity

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
	0.00696	6.96E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.0E-06	5.8E-07	5.0E+00	1.4E-03	1.4E-03							
TOTAL								5.8E-07		1.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.58

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS       Central/Peripheral Nervous System  
 CV/BL          Cardiovascular/Blood System  
 IMMUN         Immune System  
 KIDN            Kidney  
 GI/LV          Gastrointestinal System/Liver  
 REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
 EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	240
exposure duration (years)	0.92
inhalation rate (L/kg-day)	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

**Table 3**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazards**  
**2-16 Age Bin Exposure Scenario**

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
		0.00018	1.80E-07		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.9E-08	4.2E-08	5.0E+00	1.4E-03	3.6E-05					
<b>TOTAL</b>								4.2E-08			3.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.04

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
CNS/PNS        Central/Peripheral Nervous System  
CV/BL           Cardiovascular/Blood System  
IMMUN          Immune System  
KIDN            Kidney  
GI/LV            Gastrointestinal System/Liver  
REPRO          Reproductive System (e.g. teratogenic and developmental effects)  
EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	13.23
inhalation rate (L/kg-day)	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years)	3

**Table 4**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazards**  
**16-30 Age Bin Exposure Scenario**

Source ( a )	Mass GLC		Weight Fraction ( d )	Contaminant ( e )	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) ( b )	(mg/m <sup>3</sup> ) ( c )			URF (ug/m <sup>3</sup> ) <sup>-1</sup> ( f )	CPF (mg/kg/day) <sup>-1</sup> ( g )	DOSE (mg/kg-day) ( h )	RISK ( i )	REL (ug/m <sup>3</sup> ) ( j )	RfD (mg/kg/day) ( k )	RESP ( l )	CNS/PNS ( m )	CV/BL ( n )	IMMUN ( o )	KIDN ( p )	GI/LV ( q )	REPRO ( r )	EYES ( s )	
		0.00018			1.80E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.5E-08	6.9E-09	5.0E+00	1.4E-03	3.6E-05					
<b>TOTAL</b>								6.9E-09			3.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.01

\*\* Key to Toxicological Endpoints

RESP      Respiratory System  
CNS/PNS    Central/Peripheral Nervous System  
CV/BL      Cardiovascular/Blood System  
IMMUN      Immune System  
KIDN        Kidney  
GI/LV        Gastrointestinal System/Liver  
REPRO      Reproductive System (e.g. teratogenic and developmental effects)  
EYES        Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day)	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

**Total Risk for All Age Bins (per million)            0.63**

Table 1  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
-0.25 to 0 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00018	1.80E-07		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.2E-08	2.0E-09	5.0E+00	1.4E-03	3.6E-05						
TOTAL					2.0E-09				3.6E-05 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00										

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS      Central/Peripheral Nervous System  
 CV/BL        Cardiovascular/Blood System  
 IMMUN        Immune System  
 KIDN         Kidney  
 GI/LV         Gastrointestinal System/Liver  
 REPRO        Reproductive System (e.g. teratogenic and developmental effects)  
 EYES         Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day)	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester)	10

Table 2  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
0-2 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00018	1.80E-07		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.9E-07	4.8E-08	5.0E+00	1.4E-03	3.6E-05						
TOTAL					4.8E-08				3.6E-05 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00										

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS       Central/Peripheral Nervous System  
 CV/BL          Cardiovascular/Blood System  
 IMMUN         Immune System  
 KIDN            Kidney  
 GI/LV           Gastrointestinal System/Liver  
 REPRO          Reproductive System (e.g. teratogenic and developmental effects)  
 EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day)	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3  
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards  
2-16 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) (b)	(mg/m <sup>3</sup> ) (c)			URF (ug/m <sup>3</sup> ) <sup>-1</sup> (f)	CPF (mg/kg/day) <sup>-1</sup> (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m <sup>3</sup> ) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00018	1.80E-07		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.9E-08	4.5E-08	5.0E+00	1.4E-03	3.6E-05						
TOTAL					4.5E-08						3.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

\*\* Key to Toxicological Endpoints

RESP            Respiratory System  
 CNS/PNS       Central/Peripheral Nervous System  
 CV/BL          Cardiovascular/Blood System  
 IMMUN         Immune System  
 KIDN            Kidney  
 GI/LV          Gastrointestinal System/Liver  
 REPRO         Reproductive System (e.g. teratogenic and developmental effects)  
 EYES            Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day)	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years)	3

**Table 4**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Hazards**  
**16-30 Age Bin Exposure Scenario**

Source ( a )	Mass GLC		Weight Fraction ( d )	Contaminant ( e )	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m <sup>3</sup> ) ( b )	(mg/m <sup>3</sup> ) ( c )			URF (ug/m <sup>3</sup> ) <sup>-1</sup> ( f )	CPF (mg/kg/day) <sup>-1</sup> ( g )	DOSE (mg/kg-day) ( h )	RISK ( i )	REL (ug/m <sup>3</sup> ) ( j )	RfD (mg/kg/day) ( k )	RESP ( l )	CNS/PNS ( m )	CV/BL ( n )	IMMUN ( o )	KIDN ( p )	GI/LV ( q )	REPRO ( r )	EYES ( s )	
		0.00018	1.80E-07		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.5E-08	6.9E-09	5.0E+00	1.4E-03	3.6E-05						
<b>TOTAL</b>								6.9E-09			3.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.01

\*\* Key to Toxicological Endpoints

RESP      Respiratory System  
CNS/PNS    Central/Peripheral Nervous System  
CV/BL      Cardiovascular/Blood System  
IMMUN      Immune System  
KIDN        Kidney  
GI/LV        Gastrointestinal System/Liver  
REPRO      Reproductive System (e.g. teratogenic and developmental effects)  
EYES        Eye irritation and/or other effects

Note:            Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day)	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

**Total Risk for All Age Bins (per million)            0.10**

**Table 5**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Risks**  
**25-Year Worker Exposure Scenario**

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
		(ug/m <sup>3</sup> )	(mg/m <sup>3</sup> )			URF	CPF	DOSE	RISK	REL	R/D	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES	
		(b)	(c)			(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	
1	Diesel Particulates	7.90E-04	7.90E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.2E-07	4.7E-08	5.0E+00	1.4E-03	1.6E-04								
TOTAL									4.7E-08			1.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.05											

\*\* Key to Toxicological Endpoints

Note: Exposure factors used to calculate contaminant intake

RESP	Respiratory System	exposure frequency (days/year)	250
CNS/PNS	Central/Peripheral Nervous System	exposure duration (years)	25
CV/BL	Cardiovascular/Blood System	inhalation rate (L/kg-day)	230
IMMUN	Immune System	inhalation absorption factor	1
KIDN	Kidney	averaging time (years)	70
GI/LV	Gastrointestinal System/Liver		
REPRO	Reproductive System (e.g. teratogenic and developmental effects)		
EYES	Eye irritation and/or other effects		



**Table 6**  
**Quantification of Carcinogenic Risks and Noncarcinogenic Risks**  
**9-Year School Child Exposure Scenario**

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**														
		(ug/m <sup>3</sup> )	(mg/m <sup>3</sup> )			URF	CPF	DOSE	RISK	REL	RID	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES					
		(b)	(c)			(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)					
1	Diesel Particulates	2.00E-05	2.00E-08	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.6E-09	2.3E-09	5.0E+00	1.4E-03	4.0E-06												
TOTAL									2.3E-09			4.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		
									0.00															

\*\* Key to Toxicological Endpoints

Note: Exposure factors used to calculate contaminant intake

RESP	Respiratory System	exposure frequency (days/year)	180
CNS/PNS	Central/Peripheral Nervous System	exposure duration (years)	9
CV/BL	Cardiovascular/Blood System	inhalation rate (L/kg-day)	572
IMMUN	Immune System	inhalation absorption factor	1
KIDN	Kidney	averaging time (years)	70
GI/LV	Gastrointestinal System/Liver	age sensitivity factor (ages 4-13)	3
REPRO	Reproductive System (e.g. teratogenic and developmental effects)		
EYES	Eye irritation and/or other effects		