
July 28, 2020

SUBJECT: CONSTRUCTION HEALTH RISK ASSESSMENT MEMORANDUM

Urban Crossroads, Inc. is pleased to submit this construction health risk assessment memorandum for the Goodman Logistics Center Fullerton ("Project").

PURPOSE

The purpose of this memorandum is to determine the applicability of the use of early life exposure adjustments to diesel particulate matter (DPM) emissions resulting from Project construction activity, and to assess short-term exposure cancer risk to future Project construction workers.

BACKGROUND

California Air Resources Board (CARB) has recently been commenting on projects subject to the California Environmental Quality Act (CEQA), requesting that projects that involve construction activity longer than two months should include a construction health risk assessment (HRA). CARB refers to guidance from the Office of Environmental Health Hazard Assessment (OEHHA) to support its claim that construction HRAs should be performed. Urban Crossroads, Inc. has reviewed the referenced OEHHA Guidance Manual¹ to determine applicability of the use of early life exposure adjustments to diesel particulate matter (DPM) emissions resulting from construction activity.

Specifically, the OEHHA Guidance states "Due to the uncertainty in assessing cancer risk from very short-term exposures, we do not recommend assessing cancer risk for projects lasting less than two months at the MEIR. **We recommend that exposure from projects longer than 2 months, but less than 6 months be assumed to last 6 months** (e.g., a 2-month project would be evaluated as if it lasted 6 months)." (2015 Guidance Manual p. 8-18 [emphasis added].)

Given the OEHHA's Guidance, the determination of whether a construction HRA is warranted is dependent on whether or not early life exposure adjustments apply to DPM emissions resulting from construction activity. This memorandum outlines the substantial evidence to support why early life exposure adjustments are *not* applicable to construction DPM and therefore a construction health risk assessment is not required due to the short-term duration of construction activity (long-term exposure e.g. 9 or 30 years of activity are typically used to generate a risk estimates).

For risk assessments conducted under the auspices of The Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588), OEHHA applies specific adjustment factors to all carcinogens regardless of purported mechanism of action. Notwithstanding, applicability of AB 2588 is

¹ http://oehha.ca.gov/air/hot_spots/hotspots2015.html

limited to commercial and industrial operations. There are two broad classes of facilities subject to the AB 2588 Program: 1) Core facilities and 2) facilities identified within discrete industry-wide source categories. Core facilities subject to AB 2588 compliance are sources whose criteria pollutant emissions (particulate matter, oxides of sulfur, oxides of nitrogen and volatile organic compounds) are 25 tons per year or more as well as those facilities whose criteria pollutant emissions are 10 tons per year or more but less than 25 tons per year. Industry-wide source facilities are classified as smaller operations with relatively similar emission profiles (e.g., auto body shops, gas stations and dry cleaners using perchloroethylene). The emissions generated from off-road mobile sources are not classified in AB 2588 as core operations nor subject to industry-wide source evaluation.

In comments presented to the South Coast Air Quality Management District (SCAQMD) Governing Board (Meeting Date: June 5, 2015, Agenda No. 28) relating to toxic air contaminant exposures under Rules 1401, 1401.1, 1402 and 212 revisions, use of the OEHHA Guidelines specifically related to the applicability and use of early-life exposure adjustments for projects subject to CEQA, it was reported that²:

“The Proposed Amended Rules are separate from the CEQA significance thresholds. The SCAQMD staff is currently evaluating how to implement the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will evaluate a variety of options on how to evaluate health risks under the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will conduct public workshops to gather input before bringing recommendations to the Governing Board. In the interim, staff will continue to use the previous guidelines for CEQA determinations.”

To date, the SCAQMD, as a commenting agency, has not conducted public workshops nor developed policy relating to the application of early-life exposure adjustments utilizing the OEHHA Guidance Manual for projects prepared by other public/lead agencies subject to CEQA.

As a result, it is recommended that health risk assessments rely upon U.S. EPA documentation when evaluating the use of early life exposure adjustment factors (*Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens*, EPA/630/R-003F) wherein adjustment factors are only considered when carcinogens act “through the mutagenic mode of action.” A mutagen is a physical or chemical agent that changes genetic material, such as DNA, increasing the frequency of mutations to produce carcinogenic effects. The use of adjustment factors is recommended to account for the susceptibility of producing adverse health effects during early life stages from exposure to these mutagenic compounds.

In 2006, U.S. EPA published a memorandum which provides guidance regarding the preparation of health risk assessments should carcinogenic compounds elicit a mutagenic mode of action (USEPA, 2006³). As presented in the technical memorandum, numerous compounds were identified as having a mutagenic mode of action. For diesel particulates, polycyclic aromatic

2 See Response to Comment #13, Page A-7 and A-8 of the June 5, 2015 board meeting Agenda No. 28. <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2015/2015-jun1-028>

3 United States Environmental Protection Agency, 2006. Memorandum – Implementation of the Cancer Guidelines and Accompanying Supplemental Guidance - Science Policy Council Cancer Guidelines Implementation Workgroup Communication II: Performing Risk Assessments that include Carcinogens Described in the Supplemental Guidance as having a Mutagenic Mode of Action.

hydrocarbons (PAHs) and their derivatives, which are known to exhibit a mutagenic mode of action, comprise < 1% of the exhaust particulate mass. To date, the U.S. Environmental Protection Agency reports that whole diesel engine exhaust has not been shown to elicit a mutagenic mode of action (USEPA, 2018⁴).

Additionally, the California Department of Toxic Substances Control (DTSC) which is charged with protecting individuals and the environment from the effects of toxic substances and responsible for assessing, investigating and evaluating sensitive receptor populations to ensure that properties are free of contamination or that health protective remediation levels are achieved has adopted the U.S. EPA's policy in the application of early-life exposure adjustments which is consistent with the methodology considered herein. As such, incorporation of early-life exposure adjustments for exposures to DPM emissions in the quantification of carcinogenic risk for construction of the proposed are not considered.

Given that there is no available guidance that has been adopted by SCAQMD for CEQA purposes and the fact that the Project does not emit any pollutants that elicit a primary mutagenic mode of action, the use of the OEHHA guidelines to determine potential construction health risks is not required. Notwithstanding, in the abundance of caution, a focused construction health risk assessment has been prepared for the Project to determine the potential construction health risks that could occur if the OEHHA guidelines were utilized.

SITE LOCATION

The 65.4-net-acre⁵ Project site is located at the northeast corner of the Orangethorpe Avenue and Acacia Avenue intersection (2001 East Orangethorpe Avenue) and is bounded by Acacia Avenue to the west, Kimberly Avenue and Burlington Northern Santa Fe (BNSF) railroad tracks to the north, State College Boulevard to the east, and East Orangethorpe Avenue to the south. The Project site is currently occupied by a Kimberly-Clark manufacturing facility, which includes 1,210,720 square feet (sf) of existing manufacturing and warehouse buildings. Kimberly-Clark's operations and associated use of the site will terminate by June 2020.

The adjacent off-site property at 2301 East Orangethorpe Avenue that may be acquired by the Project Applicant encompasses approximately 0.7 acres. Regional access to the Project site is provided from State Route (SR)-57 and SR-91 located east and south of the Project site, respectively. The proposed Project and neighboring land uses are consistent with the Industrial land use designation and the growth assumptions for the Southeast Industrial Focus Area anticipated in City of Fullerton General Plan. The Project site and off-site property location are shown on Exhibit 1-A.

⁴ United States Environmental Protection Agency, National Center for Environmental Assessment, 2018. Integrated Risk Information System (IRIS). Diesel Engine Exhaust.

⁵ The Project site encompasses approximately 74.04 gross acres, which includes an easement for City of Fullerton Water Department facilities, areas to be dedicated for access improvements along the site-adjacent roadways, and public roadway right-of-way.

PROJECT DESCRIPTION

The Project involves the demolition of all existing structures on the Project site, and the redevelopment of the Project with four buildings totaling 1,561,522 square feet (sf) as shown on Exhibit 1-B. This includes 1,456,522 sf of warehouse space – expected to be used for fulfillment center and cold storage uses – and approximately 105,000 sf of office space (ground floor and mezzanine). The Project Applicant may pursue the acquisition of an off-site property located north of East Orangethorpe Avenue that abuts the southern boundary of the Project site (2301 East Orangethorpe Avenue) as shown on Exhibit 1-C. In the event this property is acquired, the two existing buildings on that property would also be demolished and a maximum of approximately 1,609,384 sf of high cube warehouse space would be provided on the Project site. The larger Project (Optional Site Plan) is the basis for analysis in this report and assumes 804,692 sf of high cube fulfillment center use and 804,692 sf of high-cube cold storage warehouse use (inclusive of office space). The Project is anticipated to be constructed in one phase by the year 2022.

CONSTRUCTION EMISSIONS

The emissions calculations for the construction HRA component are based on an assumed mix of construction equipment and vendor truck trips as presented in the *Goodman Logistics Center Fullerton Air Quality Impact Analysis* ("AQIA") prepared by Urban Crossroads, Inc (1).

Construction activities associated with the Project have the potential to result in diesel exhaust from the following phases:

- Demolition: involves demolition of existing concrete, asphalt, and physical building structures associated with the existing use.
- Concrete Crushing/Asphalt Pulverizing: involves the crushing of concrete and pulverizing of asphalt that is intended to be re-used on-site as fill.
- Site Preparation: involves clearing vegetation (grubbing and tree/stump removal) and removing stones and other unwanted material or debris prior to grading.
- Grading: involves cut and fill of land to ensure that the proper base and slope is created for the foundation.
- Building Construction: involves the construction of the foundation, structures, and vertical construction of buildings.
- Paving: involves the laying of concrete or asphalt such as in parking lots, roads, driveways, or sidewalks.
- Architectural Coating: involves the application of coatings to both the interior and exterior of buildings or structures, the painting of parking lot or parking garage striping, associated signage and cubes, and the painting of the walls or other components such as stair railings inside parking structures.

CONSTRUCTION DURATION

For purposes of analysis, construction is expected to commence in Spring 2021 and will last through Spring 2022. The construction schedule utilized in the analysis, shown in Table 1, represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent⁶. The equipment associated with construction represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (2). The duration of construction activity was based on the information provided by the Project Applicant.

TABLE 1: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	04/02/2021	09/20/2021	122
Crushing/Pulverizing	06/29/2021	09/20/2021	60
Site Preparation	05/11/2021	10/04/2021	105
Grading	05/25/2021	05/04/2022	247
Building Construction	07/02/2021	04/28/2022	215
Paving	10/28/2021	06/30/2022	176
Architectural Coating	11/08/2021	05/19/2022	139

CONSTRUCTION EQUIPMENT

A summary of construction equipment assumptions by phase is provided at Table 2.

TABLE 2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Phase Name	Equipment ^A	Amount	Hours Per Day
Demolition	Excavators	8	8
	Forklift	1	8
	Rubber Tired Dozers	2	8
	Skid Steer	3	8
	Tractor/Loader/Backhoe	1	8
	Water Trucks	2	8
Crushing/Pulverizing	Generator Sets	2	8

⁶ As shown in the CalEEMod User’s Guide Version 2016.3.2, Section 4.3 “OFFROAD Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 2: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

Phase Name	Equipment ^A	Amount	Hours Per Day
Site Preparation	Rubber Tired Dozers	3	8
	Tractor/Loader/Backhoe	4	8
Grading	Blade	1	8
	Rubber Tired Dozers	1	8
	Scrapers	8	8
	Tractor/Loader/Backhoe	1	8
	Water Pull	1	8
Building Construction	Cranes	1	8
	Forklift	3	8
	Generator Sets	1	8
	Tractor/Loader/Backhoe	3	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: In order to account for fugitive dust emissions associated with Site Preparation and Grading activities, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

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 (3). SCAQMD recommends using the Environmental Protection Agency's (U.S. EPA's) AERMOD model. For purposes of this analysis, the Lakes AERMOD View (Version 9.9.0) 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 19191 (4).

For this construction HRA, on-site construction activity was modeled as an area source encompassing the construction area and the vendor truck routes were modeled as adjacent volume sources. Vendor truck were modeled using the U.S. EPA's haul route methodology for modeling of off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the U.S. EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters, and an initial lateral dimension of 7.44 meters, and an initial vertical dimension of 3.25 meters. The modeled emission sources for construction activity are illustrated on Exhibit 3.

The construction activity was modeled to represent typical weekday construction activity

(Monday through Friday, 8 hours per day, 7AM to 3PM).

SCAQMD required model parameters are presented in Table 3 (5). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Fullerton Airport (KFUL) monitoring station (SRA 16) was used to represent local weather conditions and prevailing winds (6). A wind rose exhibit of the KSNA monitoring station is provided at Exhibit 3.

TABLE 3: AERMOD MODEL PARAMETERS

Dispersion Coefficient	Urban
Population	3,010,232
Terrain	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 boundaries, each source location, and receptor locations in the project vicinity. The AERMOD dispersion model summary output files for the proposed facility are presented in Attachment "A". Modeled sensitive receptors were placed at residential and non-residential locations as illustrated on Exhibit 4.

EXHIBIT 3: WIND ROSE (SRA 24)

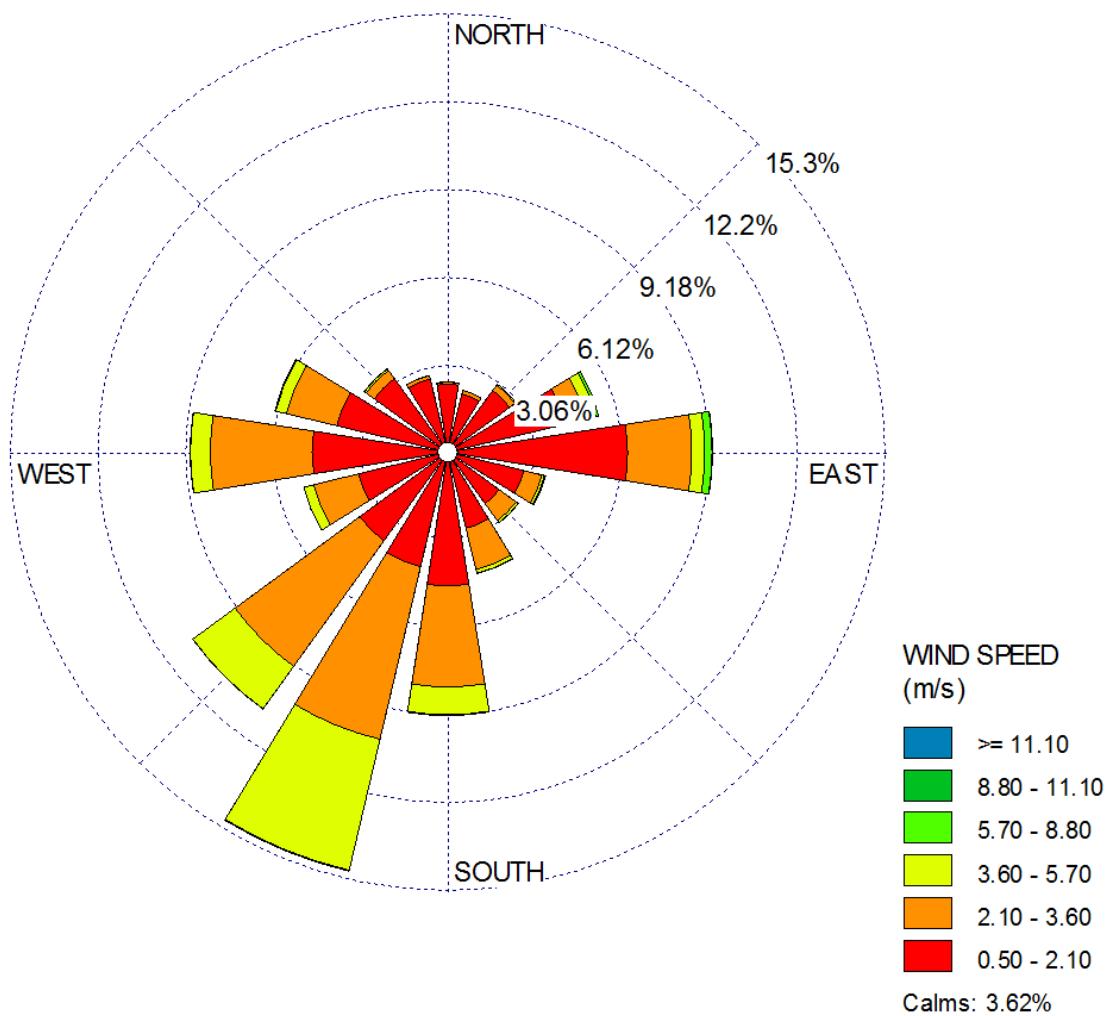


EXHIBIT 4: CONSTRUCTION ACTIVITY AND RECEPTOR LOCATIONS



Consistent with SCAQMD modeling guidance, all receptors were set to existing elevation so that only ground-level concentrations are analyzed (5). 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.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines as summarized in the *Goodman Logistics Center Fullerton Mobile Source Health Risk Assessment* ("HRA") prepared by Urban Crossroads, Inc (7). Attachment "B" includes the detailed risk calculation.

POTENTIAL CONSTRUCTION-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS

Individual Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is Location R6, which represents the existing sensitive residence at 1545 East Benmore Lane, in the City of Anaheim, approximately 1,282 feet south of the Project site. Since there is no private outdoor living area (back yard) facing the Project site at this location, R6 is placed at the building façade. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 1.80 in one million, which is less than the South Coast Air Quality Management District's (SCAQMD's) significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.003, 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 than the MEIR analyzed herein, and DPM 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.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location R9, which represents the State College Business Plaza at 1201 South State College Boulevard in the City of Fullerton, approximately 27 feet south of the Project site. R9 is placed at the building façade where a worker could remain for a typical workday. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.69 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 0.05, 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.

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Respectfully submitted,

URBAN CROSSROADS, INC.

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REFERENCES

1. **Urban Crossroads, Inc.** *Gooman Logistics Center Fullerton Air Quality Impact Analysis*. 2020.
2. **State of California.** *2019 CEQA California Environmental Quality Act*. 2019.
3. **South Coast Air Quality Management District.** Mobile Source Toxics Analysis. [Online] 2003. http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html.
4. **Environmental Protection Agency.** User's Guide for the AMS/EPA Regulatory Model (AERMOD). [Online] 2019. https://www3.epa.gov/ttn/scram/models/aermod/aermod_userguide.pdf.
5. **South Coast Air Quality Management District.** South Coast AQMD Modeling Guidance for AERMOD. [Online] [Cited: September 18, 2019.] <http://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance>.
6. —. Data for AERMOD. [Online] [Cited: June 10, 2019.] <https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod>.
7. **Urban Crossroads, Inc.** *Goodman Logistics Center Fullerton Mobile Source Health Risk Assessment*. 2020.

ATTACHMENT A: AERMOD INPUT/OUTPUTS

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**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 7/1/2020
** File: C:\Lakes\AERMOD View\13157 Cons HRA\13157 Cons HRA.ADI
**
*****
**
**
*****  

** AERMOD Control Pathway
*****  

**
**
CO STARTING
TITLEONE C:\Lakes\AERMOD View\13157 Cons HRA\13157 Cons HRA.isc
MODELOPT DFAULT CONC
AVERTIME ANNUAL
URBANOPT 3010232
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "13157 Cons HRA.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 = SLINE18
** DESCRSRC Off-site travel 30% east on Orangethorpe to SR-57
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 0.0034272998
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 6
** 415883.046, 3746951.019, 48.91, 3.49, 10.23
** 417768.711, 3746952.524, 56.00, 3.49, 10.23
** 418283.740, 3746949.228, 57.95, 3.49, 10.23
** 418342.973, 3746970.689, 58.81, 3.49, 10.23

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** 418564.454, 3747040.224, 60.62, 3.49, 10.23

** 418821.989, 3747118.343, 61.41, 3.49, 10.23

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LOCATION L0000002	VOLUME	415916.046	3746951.045	49.00
LOCATION L0000003	VOLUME	415938.046	3746951.063	49.00
LOCATION L0000004	VOLUME	415960.046	3746951.081	49.00
LOCATION L0000005	VOLUME	415982.046	3746951.098	49.02
LOCATION L0000006	VOLUME	416004.046	3746951.116	49.14
LOCATION L0000007	VOLUME	416026.046	3746951.133	49.27
LOCATION L0000008	VOLUME	416048.046	3746951.151	49.39
LOCATION L0000009	VOLUME	416070.046	3746951.168	49.54
LOCATION L0000010	VOLUME	416092.046	3746951.186	49.70
LOCATION L0000011	VOLUME	416114.046	3746951.203	49.87
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LOCATION L0000016	VOLUME	416224.046	3746951.291	50.08
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LOCATION L0000069	VOLUME	417390.045	3746952.222	55.18
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LOCATION L0000096	VOLUME	417984.041	3746951.146	57.00
LOCATION L0000097	VOLUME	418006.040	3746951.005	57.00

LOCATION L0000098	VOLUME	418028.040	3746950.864	57.00
LOCATION L0000099	VOLUME	418050.040	3746950.723	57.00
LOCATION L0000100	VOLUME	418072.039	3746950.583	57.00
LOCATION L0000101	VOLUME	418094.039	3746950.442	57.00
LOCATION L0000102	VOLUME	418116.038	3746950.301	57.00
LOCATION L0000103	VOLUME	418138.038	3746950.160	57.01
LOCATION L0000104	VOLUME	418160.037	3746950.019	57.19
LOCATION L0000105	VOLUME	418182.037	3746949.879	57.36
LOCATION L0000106	VOLUME	418204.036	3746949.738	57.54
LOCATION L0000107	VOLUME	418226.036	3746949.597	57.68
LOCATION L0000108	VOLUME	418248.035	3746949.456	57.79
LOCATION L0000109	VOLUME	418270.035	3746949.315	57.90
LOCATION L0000110	VOLUME	418291.539	3746952.053	58.01
LOCATION L0000111	VOLUME	418312.223	3746959.548	58.27
LOCATION L0000112	VOLUME	418332.907	3746967.042	58.54
LOCATION L0000113	VOLUME	418353.748	3746974.072	58.81
LOCATION L0000114	VOLUME	418374.738	3746980.662	59.00
LOCATION L0000115	VOLUME	418395.728	3746987.251	59.00
LOCATION L0000116	VOLUME	418416.718	3746993.841	59.00
LOCATION L0000117	VOLUME	418437.708	3747000.431	59.00
LOCATION L0000118	VOLUME	418458.697	3747007.021	59.34
LOCATION L0000119	VOLUME	418479.687	3747013.611	59.88
LOCATION L0000120	VOLUME	418500.677	3747020.201	60.42
LOCATION L0000121	VOLUME	418521.667	3747026.791	60.97
LOCATION L0000122	VOLUME	418542.657	3747033.380	61.00
LOCATION L0000123	VOLUME	418563.647	3747039.970	61.00
LOCATION L0000124	VOLUME	418584.697	3747046.364	61.00
LOCATION L0000125	VOLUME	418605.750	3747052.750	61.00
LOCATION L0000126	VOLUME	418626.803	3747059.136	61.00
LOCATION L0000127	VOLUME	418647.855	3747065.522	61.00
LOCATION L0000128	VOLUME	418668.908	3747071.908	61.00
LOCATION L0000129	VOLUME	418689.961	3747078.294	61.06
LOCATION L0000130	VOLUME	418711.014	3747084.680	61.13
LOCATION L0000131	VOLUME	418732.066	3747091.066	61.20
LOCATION L0000132	VOLUME	418753.119	3747097.452	61.27
LOCATION L0000133	VOLUME	418774.172	3747103.838	61.34
LOCATION L0000134	VOLUME	418795.225	3747110.224	61.41
LOCATION L0000135	VOLUME	418816.277	3747116.610	61.48

** End of LINE VOLUME Source ID = SLINE18

LOCATION PAREA1	AREAPOLY	416945.835	3746974.556	53.000
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** DESCRSRC On-Site Construction Activity

** Source Parameters **

** LINE VOLUME Source ID = SLINE18

SRCPARAM L0000001	0.0000253874	3.49	10.23	3.25
SRCPARAM L0000002	0.0000253874	3.49	10.23	3.25
SRCPARAM L0000003	0.0000253874	3.49	10.23	3.25
SRCPARAM L0000004	0.0000253874	3.49	10.23	3.25
SRCPARAM L0000005	0.0000253874	3.49	10.23	3.25
SRCPARAM L0000006	0.0000253874	3.49	10.23	3.25
SRCPARAM L0000007	0.0000253874	3.49	10.23	3.25

SRCPARAM	L0000108	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000109	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000110	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000111	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000112	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000113	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000114	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000115	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000116	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000117	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000118	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000119	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000120	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000121	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000122	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000123	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000124	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000125	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000126	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000127	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000128	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000129	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000130	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000131	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000132	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000133	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000134	0.0000253874	3.49	10.23	3.25
SRCPARAM	L0000135	0.0000253874	3.49	10.23	3.25

** -----

SRCPARAM	PAREA1	2.4646E-07	5.000	6	
AREAVERT	PAREA1	416945.835	3746974.556	416940.907	3747334.249
AREAVERT	PAREA1	417704.639	3747332.607	417711.209	3747096.096
AREAVERT	PAREA1	417588.026	3747096.096	417588.026	3746974.556
URBANSRC	ALL				

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"

** Variable Emission Scenario: "Construction"

EMISFACT	L0000001	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EMISFACT	L0000001	HROFDY	0.0	1.0	1.0	1.0	1.0	1.0	
EMISFACT	L0000001	HROFDY	1.0	1.0	1.0	0.0	0.0	0.0	
EMISFACT	L0000001	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	L0000002	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	L0000002	HROFDY	0.0	1.0	1.0	1.0	1.0	1.0	
EMISFACT	L0000002	HROFDY	1.0	1.0	1.0	0.0	0.0	0.0	
EMISFACT	L0000002	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	L0000003	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	L0000003	HROFDY	0.0	1.0	1.0	1.0	1.0	1.0	
EMISFACT	L0000003	HROFDY	1.0	1.0	1.0	0.0	0.0	0.0	
EMISFACT	L0000003	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0	
EMISFACT	L0000004	HROFDY	0.0	0.0	0.0	0.0	0.0	0.0	


```

EMISFACT L0000129      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000129      HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0000129      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000130      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000130      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000130      HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0000130      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000131      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000131      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000131      HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0000131      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000132      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000132      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000132      HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0000132      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000133      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000133      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000133      HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0000133      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000134      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000134      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000134      HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0000134      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000135      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000135      HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000135      HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT L0000135      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HROFDY 0.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA1        HROFDY 1.0 1.0 1.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1        HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**

RE STARTING
    INCLUDED "13157 Cons HRA.rou"
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**

ME STARTING
    SURFFILE FullertonAirportADJU\KFUL_V9_ADJU\KFUL_v9.SFC

```

PROFILE FullertonAirportADJU\KFUL_V9_ADJU\KFUL_v9.PFL
SURFDATA 3166 2012
UAIRDATA 3190 2012
PROFBASE 29.0 METERS
ME FINISHED
**

** AERMOD Output Pathway

**
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE ANNUAL ALL "13157 CONS HRA.AD\AN00GALL.PLT" 31
SUMMFILE "13157 Cons HRA.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 905 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 905 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

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

*** MODEL SETUP OPTIONS SUMMARY

**Model Is Setup For Calculation of Average CONCntration Values.

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 136 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3010232.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET
CCVR_Sub - Meteorological data includes CCVR substitutions
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes: 136 Source(s); 1 Source Group(s); and 9 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 135 VOLUME source(s)
and: 1 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RЛИNEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

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

**The AERMET Input Meteorological Data Version Date: 16216

****Output Options Selected:**

Model Outputs Tables of 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
and Missing Hours b for Both Calm

and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 29.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0 Emission Units : GRAMS/SEC

Emission Units = GRAMS/SEC S-10000E167

EMISSION RATE UNIT FACTOR = 0.10000E+0/
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: 13157 Cons HRA.err

**File for Summary of Results: 13157 Cons HRA.sum

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ U*

*** VOLUME SOURCE DATA ***

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

L0000001		0	0.25387E-04	415894.0	3746951.0	49.0	3.49	10.23
3.25	YES	HROFDY						
L0000002		0	0.25387E-04	415916.0	3746951.0	49.0	3.49	10.23
3.25	YES	HROFDY						
L0000003		0	0.25387E-04	415938.0	3746951.1	49.0	3.49	10.23
3.25	YES	HROFDY						
L0000004		0	0.25387E-04	415960.0	3746951.1	49.0	3.49	10.23
3.25	YES	HROFDY						
L0000005		0	0.25387E-04	415982.0	3746951.1	49.0	3.49	10.23
3.25	YES	HROFDY						
L0000006		0	0.25387E-04	416004.0	3746951.1	49.1	3.49	10.23
3.25	YES	HROFDY						
L0000007		0	0.25387E-04	416026.0	3746951.1	49.3	3.49	10.23
3.25	YES	HROFDY						
L0000008		0	0.25387E-04	416048.0	3746951.2	49.4	3.49	10.23
3.25	YES	HROFDY						
L0000009		0	0.25387E-04	416070.0	3746951.2	49.5	3.49	10.23
3.25	YES	HROFDY						
L0000010		0	0.25387E-04	416092.0	3746951.2	49.7	3.49	10.23
3.25	YES	HROFDY						
L0000011		0	0.25387E-04	416114.0	3746951.2	49.9	3.49	10.23
3.25	YES	HROFDY						
L0000012		0	0.25387E-04	416136.0	3746951.2	50.0	3.49	10.23
3.25	YES	HROFDY						
L0000013		0	0.25387E-04	416158.0	3746951.2	50.0	3.49	10.23
3.25	YES	HROFDY						
L0000014		0	0.25387E-04	416180.0	3746951.3	50.0	3.49	10.23
3.25	YES	HROFDY						
L0000015		0	0.25387E-04	416202.0	3746951.3	50.0	3.49	10.23
3.25	YES	HROFDY						
L0000016		0	0.25387E-04	416224.0	3746951.3	50.1	3.49	10.23
3.25	YES	HROFDY						
L0000017		0	0.25387E-04	416246.0	3746951.3	50.2	3.49	10.23
3.25	YES	HROFDY						
L0000018		0	0.25387E-04	416268.0	3746951.3	50.3	3.49	10.23
3.25	YES	HROFDY						
L0000019		0	0.25387E-04	416290.0	3746951.3	50.5	3.49	10.23
3.25	YES	HROFDY						
L0000020		0	0.25387E-04	416312.0	3746951.4	50.6	3.49	10.23
3.25	YES	HROFDY						
L0000021		0	0.25387E-04	416334.0	3746951.4	50.8	3.49	10.23
3.25	YES	HROFDY						
L0000022		0	0.25387E-04	416356.0	3746951.4	50.9	3.49	10.23
3.25	YES	HROFDY						
L0000023		0	0.25387E-04	416378.0	3746951.4	51.1	3.49	10.23
3.25	YES	HROFDY						
L0000024		0	0.25387E-04	416400.0	3746951.4	51.2	3.49	10.23
3.25	YES	HROFDY						

L0000025		0	0.25387E-04	416422.0	3746951.4	51.4	3.49	10.23
3.25	YES	HROFDY						
L0000026		0	0.25387E-04	416444.0	3746951.5	51.5	3.49	10.23
3.25	YES	HROFDY						
L0000027		0	0.25387E-04	416466.0	3746951.5	51.5	3.49	10.23
3.25	YES	HROFDY						
L0000028		0	0.25387E-04	416488.0	3746951.5	51.5	3.49	10.23
3.25	YES	HROFDY						
L0000029		0	0.25387E-04	416510.0	3746951.5	51.5	3.49	10.23
3.25	YES	HROFDY						
L0000030		0	0.25387E-04	416532.0	3746951.5	51.6	3.49	10.23
3.25	YES	HROFDY						
L0000031		0	0.25387E-04	416554.0	3746951.6	51.7	3.49	10.23
3.25	YES	HROFDY						
L0000032		0	0.25387E-04	416576.0	3746951.6	51.9	3.49	10.23
3.25	YES	HROFDY						
L0000033		0	0.25387E-04	416598.0	3746951.6	52.0	3.49	10.23
3.25	YES	HROFDY						
L0000034		0	0.25387E-04	416620.0	3746951.6	52.2	3.49	10.23
3.25	YES	HROFDY						
L0000035		0	0.25387E-04	416642.0	3746951.6	52.3	3.49	10.23
3.25	YES	HROFDY						
L0000036		0	0.25387E-04	416664.0	3746951.6	52.4	3.49	10.23
3.25	YES	HROFDY						
L0000037		0	0.25387E-04	416686.0	3746951.7	52.6	3.49	10.23
3.25	YES	HROFDY						
L0000038		0	0.25387E-04	416708.0	3746951.7	52.7	3.49	10.23
3.25	YES	HROFDY						
L0000039		0	0.25387E-04	416730.0	3746951.7	52.9	3.49	10.23
3.25	YES	HROFDY						
L0000040		0	0.25387E-04	416752.0	3746951.7	53.0	3.49	10.23
3.25	YES	HROFDY						
▲ *** AERMOD - VERSION 19191 ***				*** C:\Lakes\AERMOD View\13157 Cons HRA\13157				
Cons HRA.isc			***		07/01/20			
*** AERMET - VERSION 16216 ***			***					
			***	12:11:29				

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 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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

L0000041		0	0.25387E-04	416774.0	3746951.7	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000042		0	0.25387E-04	416796.0	3746951.7	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000043		0	0.25387E-04	416818.0	3746951.8	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000044		0	0.25387E-04	416840.0	3746951.8	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000045		0	0.25387E-04	416862.0	3746951.8	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000046		0	0.25387E-04	416884.0	3746951.8	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000047		0	0.25387E-04	416906.0	3746951.8	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000048		0	0.25387E-04	416928.0	3746951.9	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000049		0	0.25387E-04	416950.0	3746951.9	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000050		0	0.25387E-04	416972.0	3746951.9	53.0	3.49	10.23
3.25	YES	HROFDY						
L0000051		0	0.25387E-04	416994.0	3746951.9	53.1	3.49	10.23
3.25	YES	HROFDY						
L0000052		0	0.25387E-04	417016.0	3746951.9	53.2	3.49	10.23
3.25	YES	HROFDY						
L0000053		0	0.25387E-04	417038.0	3746951.9	53.4	3.49	10.23
3.25	YES	HROFDY						
L0000054		0	0.25387E-04	417060.0	3746952.0	53.5	3.49	10.23
3.25	YES	HROFDY						
L0000055		0	0.25387E-04	417082.0	3746952.0	53.7	3.49	10.23
3.25	YES	HROFDY						
L0000056		0	0.25387E-04	417104.0	3746952.0	53.8	3.49	10.23
3.25	YES	HROFDY						
L0000057		0	0.25387E-04	417126.0	3746952.0	53.9	3.49	10.23
3.25	YES	HROFDY						
L0000058		0	0.25387E-04	417148.0	3746952.0	54.1	3.49	10.23
3.25	YES	HROFDY						
L0000059		0	0.25387E-04	417170.0	3746952.0	54.2	3.49	10.23
3.25	YES	HROFDY						
L0000060		0	0.25387E-04	417192.0	3746952.1	54.4	3.49	10.23
3.25	YES	HROFDY						
L0000061		0	0.25387E-04	417214.0	3746952.1	54.5	3.49	10.23
3.25	YES	HROFDY						
L0000062		0	0.25387E-04	417236.0	3746952.1	54.5	3.49	10.23
3.25	YES	HROFDY						
L0000063		0	0.25387E-04	417258.0	3746952.1	54.6	3.49	10.23
3.25	YES	HROFDY						
L0000064		0	0.25387E-04	417280.0	3746952.1	54.6	3.49	10.23
3.25	YES	HROFDY						

L0000065		0	0.25387E-04	417302.0	3746952.2	54.6	3.49	10.23
3.25	YES	HROFDY						
L0000066		0	0.25387E-04	417324.0	3746952.2	54.8	3.49	10.23
3.25	YES	HROFDY						
L0000067		0	0.25387E-04	417346.0	3746952.2	54.9	3.49	10.23
3.25	YES	HROFDY						
L0000068		0	0.25387E-04	417368.0	3746952.2	55.0	3.49	10.23
3.25	YES	HROFDY						
L0000069		0	0.25387E-04	417390.0	3746952.2	55.2	3.49	10.23
3.25	YES	HROFDY						
L0000070		0	0.25387E-04	417412.0	3746952.2	55.3	3.49	10.23
3.25	YES	HROFDY						
L0000071		0	0.25387E-04	417434.0	3746952.3	55.5	3.49	10.23
3.25	YES	HROFDY						
L0000072		0	0.25387E-04	417456.0	3746952.3	55.6	3.49	10.23
3.25	YES	HROFDY						
L0000073		0	0.25387E-04	417478.0	3746952.3	55.8	3.49	10.23
3.25	YES	HROFDY						
L0000074		0	0.25387E-04	417500.0	3746952.3	55.9	3.49	10.23
3.25	YES	HROFDY						
L0000075		0	0.25387E-04	417522.0	3746952.3	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000076		0	0.25387E-04	417544.0	3746952.3	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000077		0	0.25387E-04	417566.0	3746952.4	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000078		0	0.25387E-04	417588.0	3746952.4	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000079		0	0.25387E-04	417610.0	3746952.4	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000080		0	0.25387E-04	417632.0	3746952.4	56.0	3.49	10.23
3.25	YES	HROFDY						
▲ *** AERMOD - VERSION 19191 ***				*** C:\Lakes\AERMOD View\13157 Cons HRA\13157				
Cons HRA.isc			***	07/01/20				
*** AERMET - VERSION 16216 ***			***					
		***	12:11:29					

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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

L0000081		0	0.25387E-04	417654.0	3746952.4	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000082		0	0.25387E-04	417676.0	3746952.4	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000083		0	0.25387E-04	417698.0	3746952.5	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000084		0	0.25387E-04	417720.0	3746952.5	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000085		0	0.25387E-04	417742.0	3746952.5	56.0	3.49	10.23
3.25	YES	HROFDY						
L0000086		0	0.25387E-04	417764.0	3746952.5	56.1	3.49	10.23
3.25	YES	HROFDY						
L0000087		0	0.25387E-04	417786.0	3746952.4	56.3	3.49	10.23
3.25	YES	HROFDY						
L0000088		0	0.25387E-04	417808.0	3746952.3	56.4	3.49	10.23
3.25	YES	HROFDY						
L0000089		0	0.25387E-04	417830.0	3746952.1	56.6	3.49	10.23
3.25	YES	HROFDY						
L0000090		0	0.25387E-04	417852.0	3746952.0	56.7	3.49	10.23
3.25	YES	HROFDY						
L0000091		0	0.25387E-04	417874.0	3746951.8	56.8	3.49	10.23
3.25	YES	HROFDY						
L0000092		0	0.25387E-04	417896.0	3746951.7	56.9	3.49	10.23
3.25	YES	HROFDY						
L0000093		0	0.25387E-04	417918.0	3746951.6	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000094		0	0.25387E-04	417940.0	3746951.4	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000095		0	0.25387E-04	417962.0	3746951.3	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000096		0	0.25387E-04	417984.0	3746951.1	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000097		0	0.25387E-04	418006.0	3746951.0	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000098		0	0.25387E-04	418028.0	3746950.9	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000099		0	0.25387E-04	418050.0	3746950.7	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000100		0	0.25387E-04	418072.0	3746950.6	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000101		0	0.25387E-04	418094.0	3746950.4	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000102		0	0.25387E-04	418116.0	3746950.3	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000103		0	0.25387E-04	418138.0	3746950.2	57.0	3.49	10.23
3.25	YES	HROFDY						
L0000104		0	0.25387E-04	418160.0	3746950.0	57.2	3.49	10.23
3.25	YES	HROFDY						

L0000105		0	0.25387E-04	418182.0	3746949.9	57.4	3.49	10.23
3.25	YES	HROFDY						
L0000106		0	0.25387E-04	418204.0	3746949.7	57.5	3.49	10.23
3.25	YES	HROFDY						
L0000107		0	0.25387E-04	418226.0	3746949.6	57.7	3.49	10.23
3.25	YES	HROFDY						
L0000108		0	0.25387E-04	418248.0	3746949.5	57.8	3.49	10.23
3.25	YES	HROFDY						
L0000109		0	0.25387E-04	418270.0	3746949.3	57.9	3.49	10.23
3.25	YES	HROFDY						
L0000110		0	0.25387E-04	418291.5	3746952.1	58.0	3.49	10.23
3.25	YES	HROFDY						
L0000111		0	0.25387E-04	418312.2	3746959.5	58.3	3.49	10.23
3.25	YES	HROFDY						
L0000112		0	0.25387E-04	418332.9	3746967.0	58.5	3.49	10.23
3.25	YES	HROFDY						
L0000113		0	0.25387E-04	418353.7	3746974.1	58.8	3.49	10.23
3.25	YES	HROFDY						
L0000114		0	0.25387E-04	418374.7	3746980.7	59.0	3.49	10.23
3.25	YES	HROFDY						
L0000115		0	0.25387E-04	418395.7	3746987.3	59.0	3.49	10.23
3.25	YES	HROFDY						
L0000116		0	0.25387E-04	418416.7	3746993.8	59.0	3.49	10.23
3.25	YES	HROFDY						
L0000117		0	0.25387E-04	418437.7	3747000.4	59.0	3.49	10.23
3.25	YES	HROFDY						
L0000118		0	0.25387E-04	418458.7	3747007.0	59.3	3.49	10.23
3.25	YES	HROFDY						
L0000119		0	0.25387E-04	418479.7	3747013.6	59.9	3.49	10.23
3.25	YES	HROFDY						
L0000120		0	0.25387E-04	418500.7	3747020.2	60.4	3.49	10.23
3.25	YES	HROFDY						
↑ *** AERMOD - VERSION	19191	***	***	C:\Lakes\AERMOD	View\13157	Cons	HRA\13157	
Cons HRA.isc		***	07/01/20					
*** AERMET - VERSION	16216	***	***					
	***	12:11:29						

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

*** VOLUME SOURCE DATA ***

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

L0000121		0	0.25387E-04	418521.7	3747026.8	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000122		0	0.25387E-04	418542.7	3747033.4	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000123		0	0.25387E-04	418563.6	3747040.0	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000124		0	0.25387E-04	418584.7	3747046.4	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000125		0	0.25387E-04	418605.8	3747052.8	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000126		0	0.25387E-04	418626.8	3747059.1	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000127		0	0.25387E-04	418647.9	3747065.5	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000128		0	0.25387E-04	418668.9	3747071.9	61.0	3.49	10.23
3.25	YES	HROFDY						
L0000129		0	0.25387E-04	418690.0	3747078.3	61.1	3.49	10.23
3.25	YES	HROFDY						
L0000130		0	0.25387E-04	418711.0	3747084.7	61.1	3.49	10.23
3.25	YES	HROFDY						
L0000131		0	0.25387E-04	418732.1	3747091.1	61.2	3.49	10.23
3.25	YES	HROFDY						
L0000132		0	0.25387E-04	418753.1	3747097.5	61.3	3.49	10.23
3.25	YES	HROFDY						
L0000133		0	0.25387E-04	418774.2	3747103.8	61.3	3.49	10.23
3.25	YES	HROFDY						
L0000134		0	0.25387E-04	418795.2	3747110.2	61.4	3.49	10.23
3.25	YES	HROFDY						
L0000135		0	0.25387E-04	418816.3	3747116.6	61.5	3.49	10.23
3.25	YES	HROFDY						
↑ *** AERMOD	- VERSION	19191	***	***	C:\Lakes\AERMOD View\13157 Cons HRA\13157			
Cons	HRA.isc		***	07/01/20				
*** AERMET	- VERSION	16216	***	***				
		***		12:11:29				

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

*** AREA POLY SOURCE DATA ***

	NUMBER	EMISSION RATE	LOCATION OF AREA	BASE	RELEASE	NUMBER
INIT.	URBAN	EMISSION RATE				
SOURCE	PART.	(GRAMS/SEC	X	Y	ELEV.	HEIGHT
SZ	SOURCE	SCALAR VARY				OF VERTS.
ID	CATS.	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	BY					

PAREA1 0 0.24646E-06 416945.8 3746974.6 53.0 5.00 6
 0.00 YES HROFDY
 ↗ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
 Cons HRA.isc *** 07/01/20
 *** AERMET - VERSION 16216 *** ***
 *** 12:11:29

 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* PAGE 7

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID	SOURCE IDs
ALL	
L0000006	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , , L0000079 , L0000080

L0000086	L0000081 , L0000087	, L0000082 , L0000088	, L0000083 ,	, L0000084	, L0000085	,
L0000094	L0000089 , L0000095	, L0000090 , L0000096	, L0000091 ,	, L0000092	, L0000093	,
L0000102	L0000097 , L0000103	, L0000098 , L0000104	, L0000099 ,	, L0000100	, L0000101	,
L0000110	L0000105 , L0000111	, L0000106 , L0000112	, L0000107 ,	, L0000108	, L0000109	,
L0000118	L0000113 , L0000119	, L0000114 , L0000120	, L0000115 ,	, L0000116	, L0000117	,
L0000126	L0000121 , L0000127	, L0000122 , L0000128	, L0000123 ,	, L0000124	, L0000125	,
L0000134	L0000129 , L0000135	, L0000130 , PAREA1	, L0000131 ,	, L0000132	, L0000133	,
▲ *** AERMOD - VERSION	19191 ***	*** C:\Lakes\AERMOD View\13157 Cons HRA\13157				
Cons HRA.isc		***	07/01/20			
*** AERMET - VERSION	16216 ***	***				
	***	12:11:29				

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000005	3010232. , L0000006	L0000001 , L0000007 , L0000002 , L0000003 , L0000004 ,
L0000008	,	
L0000014	L0000009 , L0000015	, L0000010 , L0000016 , L0000011 , L0000012 , L0000013 ,
L0000022	L0000017 , L0000023	, L0000018 , L0000024 , L0000019 , L0000020 , L0000021 ,
L0000030	L0000025 , L0000031	, L0000026 , L0000032 , L0000027 , L0000028 , L0000029 ,
	L0000033	, L0000034 , L0000035 , L0000036 , L0000037 ,

L0000038 , L0000039 , L0000040 ,
 L0000046 L0000041 , L0000042 , L0000043 , L0000044 , L0000045 ,
 L0000054 L0000049 , L0000050 , L0000051 , L0000052 , L0000053 ,
 L0000062 L0000057 , L0000058 , L0000059 , L0000060 , L0000061 ,
 L0000070 L0000065 , L0000066 , L0000067 , L0000068 , L0000069 ,
 L0000078 L0000073 , L0000074 , L0000075 , L0000076 , L0000077 ,
 L0000086 L0000081 , L0000082 , L0000083 , L0000084 , L0000085 ,
 L0000094 L0000089 , L0000090 , L0000091 , L0000092 , L0000093 ,
 L0000102 L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,
 L0000110 L0000105 , L0000106 , L0000107 , L0000108 , L0000109 ,
 L0000118 L0000113 , L0000114 , L0000115 , L0000116 , L0000117 ,
 L0000126 L0000121 , L0000122 , L0000123 , L0000124 , L0000125 ,
 L0000134 L0000129 , L0000130 , L0000131 , L0000132 , L0000133 ,
 , L0000135 , PAREA1 ,
 ↑ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
 Cons HRA.isc *** 07/01/20
 *** AERMET - VERSION 16216 *** ***
 *** 12:11:29

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

SOURCE ID = L0000001 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000002 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000003 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000004 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000005 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

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SOURCE ID = L0000006      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

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SOURCE ID = L0000007      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

SOURCE ID = L0000008 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00

	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01				
	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00				
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00				

```

SOURCE ID = L0000009 ; SOURCE TYPE = VOLUME :
      1 .00000E+00    2 .00000E+00    3 .00000E+00    4 .00000E+00
      5 .00000E+00    6 .00000E+00
      7 .00000E+00    8 .10000E+01    9 .10000E+01   10 .10000E+01
  11 .10000E+01   12 .10000E+01
      13 .10000E+01   14 .10000E+01   15 .10000E+01   16 .00000E+00
  17 .00000E+00   18 .00000E+00
      19 .00000E+00   20 .00000E+00   21 .00000E+00   22 .00000E+00
  23 .00000E+00   24 .00000E+00

```

```

SOURCE ID = L0000010      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
    11 .10000E+01         12 .10000E+01
    13 .10000E+01         14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00         18 .00000E+00
    19 .00000E+00         20 .00000E+00          21 .00000E+00      22 .00000E+00
    23 .00000E+00         24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000011 ; SOURCE TYPE = VOLUME :
      1 .00000E+00   2 .00000E+00   3 .00000E+00   4 .00000E+00
      5 .00000E+00   6 .00000E+00
      7 .00000E+00   8 .10000E+01   9 .10000E+01  10 .10000E+01

```

11	.10000E+01	12	.10000E+01				
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17	.00000E+00	18	.00000E+00				
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000012 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00				
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01				
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17	.00000E+00	18	.00000E+00				
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000013 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00				
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01				
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17	.00000E+00	18	.00000E+00				
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000014 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00				
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01				
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17	.00000E+00	18	.00000E+00				
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000015 ; SOURCE TYPE = VOLUME :

1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00				
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01				
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17	.00000E+00	18	.00000E+00				
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000016      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000017      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
    11 .10000E+01         12 .10000E+01
    13 .10000E+01         14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00         18 .00000E+00
    19 .00000E+00         20 .00000E+00          21 .00000E+00      22 .00000E+00
    23 .00000E+00         24 .00000E+00

```

```

SOURCE ID = L0000018 ; SOURCE TYPE = VOLUME :
      1 .00000E+00    2 .00000E+00    3 .00000E+00    4 .00000E+00
      5 .00000E+00    6 .00000E+00
      7 .00000E+00    8 .10000E+01    9 .10000E+01   10 .10000E+01
  11 .10000E+01   12 .10000E+01
      13 .10000E+01   14 .10000E+01   15 .10000E+01   16 .00000E+00
  17 .00000E+00   18 .00000E+00
      19 .00000E+00   20 .00000E+00   21 .00000E+00   22 .00000E+00
  23 .00000E+00   24 .00000E+00

```

```

SOURCE ID = L0000019      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000020      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000021      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

SOURCE ID = L0000022 ; SOURCE TYPE = VOLUME ;

	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00				
5		.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00								
SOURCE ID = L0000023 ; SOURCE TYPE = VOLUME :												
	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00				
5		.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00								
SOURCE ID = L0000024 ; SOURCE TYPE = VOLUME :												
	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00				
5		.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00								
SOURCE ID = L0000025 ; SOURCE TYPE = VOLUME :												
	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00				
5		.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00								

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
	- - - - -		- - - - -		- - - - -		- - - - -	
SOURCE ID = L0000026		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	
11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	
17	.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	
23	.00000E+00	24	.00000E+00					
SOURCE ID = L0000027		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	
11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	
17	.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	
23	.00000E+00	24	.00000E+00					
SOURCE ID = L0000028		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	
11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	
17	.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	
23	.00000E+00	24	.00000E+00					
SOURCE ID = L0000029		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00	7	.00000E+00	8	.10000E+01	
11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	
17	.00000E+00	18	.00000E+00	19	.00000E+00	20	.00000E+00	
23	.00000E+00	24	.00000E+00					

23 .00000E+00 24 .00000E+00

SOURCE ID = L0000030 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

*** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

SOURCE ID = L0000031 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000032 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0000033 ; SOURCE TYPE = VOLUME :
      1 .00000E+00    2 .00000E+00    3 .00000E+00    4 .00000E+00
      5 .00000E+00    6 .00000E+00
      7 .00000E+00    8 .10000E+01    9 .10000E+01   10 .10000E+01
  11 .10000E+01   12 .10000E+01
      13 .10000E+01   14 .10000E+01   15 .10000E+01   16 .00000E+00
  17 .00000E+00   18 .00000E+00
      19 .00000E+00   20 .00000E+00   21 .00000E+00   22 .00000E+00
  23 .00000E+00   24 .00000E+00

```

```

SOURCE ID = L0000034      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
    23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000035      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

SOURCE ID = L0000036 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000037 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000038 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000039 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000040 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01

	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00				
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
	23	.00000E+00	24	.00000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

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SOURCE ID = L0000041      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000042 ; SOURCE TYPE = VOLUME :
      1 .00000E+00    2 .00000E+00    3 .00000E+00    4 .00000E+00
      5 .00000E+00    6 .00000E+00
      7 .00000E+00    8 .10000E+01    9 .10000E+01   10 .10000E+01
  11 .10000E+01   12 .10000E+01
      13 .10000E+01   14 .10000E+01   15 .10000E+01   16 .00000E+00
  17 .00000E+00   18 .00000E+00
      19 .00000E+00   20 .00000E+00   21 .00000E+00   22 .00000E+00
  23 .00000E+00   24 .00000E+00

```

```

SOURCE ID = L0000043      ; SOURCE TYPE = VOLUME   :
      1 .00000E+00      2 .00000E+00      3 .00000E+00      4 .00000E+00
      5 .00000E+00      6 .00000E+00
      7 .00000E+00      8 .10000E+01      9 .10000E+01      10 .10000E+01
    11 .10000E+01     12 .10000E+01
      13 .10000E+01     14 .10000E+01     15 .10000E+01     16 .00000E+00

```

17	.00000E+00	18	.00000E+00					
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00					

```

SOURCE ID = L0000044      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000045      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000046      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
    11 .10000E+01         12 .10000E+01
    13 .10000E+01         14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00         18 .00000E+00

```

19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00				

```

SOURCE ID = L0000047 ; SOURCE TYPE = VOLUME :
      1 .00000E+00    2 .00000E+00    3 .00000E+00    4 .00000E+00
      5 .00000E+00    6 .00000E+00
      7 .00000E+00    8 .10000E+01    9 .10000E+01   10 .10000E+01
  11 .10000E+01   12 .10000E+01
      13 .10000E+01   14 .10000E+01   15 .10000E+01   16 .00000E+00
  17 .00000E+00   18 .00000E+00
      19 .00000E+00   20 .00000E+00   21 .00000E+00   22 .00000E+00
  23 .00000E+00   24 .00000E+00

```

```

SOURCE ID = L0000048      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000049      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000050      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
   11 .10000E+01          12 .10000E+01
   13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
   17 .00000E+00          18 .00000E+00
   19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
   23 .00000E+00          24 .00000E+00

```

*** 12:11:29

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

- - - - -

- - - - -

SOURCE ID = L0000051 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						
7 .00000E+00	8 .10000E+01	9 .10000E+01	10 .10000E+01				
11 .10000E+01	12 .10000E+01						
13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .00000E+00				
17 .00000E+00	18 .00000E+00						
19 .00000E+00	20 .00000E+00	21 .00000E+00	22 .00000E+00				
23 .00000E+00	24 .00000E+00						

SOURCE ID = L0000052 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						
7 .00000E+00	8 .10000E+01	9 .10000E+01	10 .10000E+01				
11 .10000E+01	12 .10000E+01						
13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .00000E+00				
17 .00000E+00	18 .00000E+00						
19 .00000E+00	20 .00000E+00	21 .00000E+00	22 .00000E+00				
23 .00000E+00	24 .00000E+00						

SOURCE ID = L0000053 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						
7 .00000E+00	8 .10000E+01	9 .10000E+01	10 .10000E+01				
11 .10000E+01	12 .10000E+01						
13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .00000E+00				
17 .00000E+00	18 .00000E+00						
19 .00000E+00	20 .00000E+00	21 .00000E+00	22 .00000E+00				
23 .00000E+00	24 .00000E+00						

SOURCE ID = L0000054 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						

	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01				
	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00				
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00				

```

SOURCE ID = L0000055      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000056      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000057      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00        4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01        10 .10000E+01

```

```
11   .10000E+01    12   .10000E+01
     13   .10000E+01    14   .10000E+01    15   .10000E+01    16   .00000E+00
17   .00000E+00    18   .00000E+00    20   .00000E+00    21   .00000E+00    22   .00000E+00
23   .00000E+00    24   .00000E+00
```

```
SOURCE ID = L0000058      ; SOURCE TYPE = VOLUME   :
 1   .00000E+00          2   .00000E+00          3   .00000E+00    4   .00000E+00
 5   .00000E+00          6   .00000E+00          7   .00000E+00    8   .10000E+01    9   .10000E+01    10  .10000E+01
11   .10000E+01          12  .10000E+01          13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17   .00000E+00          18  .00000E+00          19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23   .00000E+00          24  .00000E+00
```

```
SOURCE ID = L0000059      ; SOURCE TYPE = VOLUME   :
 1   .00000E+00          2   .00000E+00          3   .00000E+00    4   .00000E+00
 5   .00000E+00          6   .00000E+00          7   .00000E+00    8   .10000E+01    9   .10000E+01    10  .10000E+01
11   .10000E+01          12  .10000E+01          13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17   .00000E+00          18  .00000E+00          19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23   .00000E+00          24  .00000E+00
```

```
SOURCE ID = L0000060      ; SOURCE TYPE = VOLUME   :
 1   .00000E+00          2   .00000E+00          3   .00000E+00    4   .00000E+00
 5   .00000E+00          6   .00000E+00          7   .00000E+00    8   .10000E+01    9   .10000E+01    10  .10000E+01
11   .10000E+01          12  .10000E+01          13  .10000E+01    14  .10000E+01    15  .10000E+01    16  .00000E+00
17   .00000E+00          18  .00000E+00          19  .00000E+00    20  .00000E+00    21  .00000E+00    22  .00000E+00
23   .00000E+00          24  .00000E+00
```

```
▲ *** AERMOD - VERSION 19191 ***   *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc           ***   07/01/20
*** AERMET - VERSION 16216 ***   ***
***   ***   12:11:29
```

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
	- - - - -		- - - - -		- - - - -		- - - - -	
SOURCE ID = L0000061		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00					
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11	.10000E+01	12	.10000E+01					
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17	.00000E+00	18	.00000E+00					
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23	.00000E+00	24	.00000E+00					
SOURCE ID = L0000062		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00					
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11	.10000E+01	12	.10000E+01					
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17	.00000E+00	18	.00000E+00					
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23	.00000E+00	24	.00000E+00					
SOURCE ID = L0000063		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00					
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11	.10000E+01	12	.10000E+01					
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17	.00000E+00	18	.00000E+00					
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23	.00000E+00	24	.00000E+00					
SOURCE ID = L0000064		; SOURCE TYPE = VOLUME		:				
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00	
5	.00000E+00	6	.00000E+00					
7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11	.10000E+01	12	.10000E+01					
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17	.00000E+00	18	.00000E+00					
19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23	.00000E+00	24	.00000E+00					

```

SOURCE ID = L0000065      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
    23 .00000E+00          24 .00000E+00

```

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000066      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000067      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
    11 .10000E+01         12 .10000E+01
    13 .10000E+01         14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00         18 .00000E+00
    19 .00000E+00         20 .00000E+00          21 .00000E+00      22 .00000E+00
    23 .00000E+00         24 .00000E+00

```

SOURCE_ID = L0000068 : SOURCE_TYPE = VOLUME :

	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5		.00000E+00	6	.00000E+00				
	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01				
	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00				
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00				

```

SOURCE ID = L0000069      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000070      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

SOURCE ID = L0000071 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00

```

SOURCE ID = L0000072      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
  13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
  19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000073      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000074      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000075      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
  13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00         20 .00000E+00          21 .00000E+00      22 .00000E+00

```

23 .00000E+00 24 .00000E+00

▲ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

SOURCE ID = L0000076 ; SOURCE TYPE = VOLUME :				
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00				
5 .00000E+00 6 .00000E+00				
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01				
11 .10000E+01 12 .10000E+01				
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00				
17 .00000E+00 18 .00000E+00				
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00				
23 .00000E+00 24 .00000E+00				

SOURCE ID = L0000077 ; SOURCE TYPE = VOLUME :				
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00				
5 .00000E+00 6 .00000E+00				
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01				
11 .10000E+01 12 .10000E+01				
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00				
17 .00000E+00 18 .00000E+00				
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00				
23 .00000E+00 24 .00000E+00				

SOURCE ID = L0000078 ; SOURCE TYPE = VOLUME :				
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00				
5 .00000E+00 6 .00000E+00				
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01				
11 .10000E+01 12 .10000E+01				
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00				
17 .00000E+00 18 .00000E+00				
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00				
23 .00000E+00 24 .00000E+00				

SOURCE ID = L0000079 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000080 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

▲ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
 Cons HRA.isc *** 07/01/20
 *** AERMET - VERSION 16216 *** ***
 *** 12:11:29

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 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
 OF THE DAY *

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

SOURCE ID = L0000081 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000082 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000083 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000084 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000085 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
- - - - -		- - - - -		- - - - -		- - - - -	
SOURCE ID = L0000086 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						
7 .00000E+00	8 .10000E+01	9 .10000E+01	10 .10000E+01				
11 .10000E+01	12 .10000E+01						
13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .00000E+00				
17 .00000E+00	18 .00000E+00						
19 .00000E+00	20 .00000E+00	21 .00000E+00	22 .00000E+00				
23 .00000E+00	24 .00000E+00						
SOURCE ID = L0000087 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						
7 .00000E+00	8 .10000E+01	9 .10000E+01	10 .10000E+01				
11 .10000E+01	12 .10000E+01						
13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .00000E+00				
17 .00000E+00	18 .00000E+00						
19 .00000E+00	20 .00000E+00	21 .00000E+00	22 .00000E+00				
23 .00000E+00	24 .00000E+00						
SOURCE ID = L0000088 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						
7 .00000E+00	8 .10000E+01	9 .10000E+01	10 .10000E+01				
11 .10000E+01	12 .10000E+01						
13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .00000E+00				
17 .00000E+00	18 .00000E+00						
19 .00000E+00	20 .00000E+00	21 .00000E+00	22 .00000E+00				
23 .00000E+00	24 .00000E+00						
SOURCE ID = L0000089 ; SOURCE TYPE = VOLUME :							
1 .00000E+00	2 .00000E+00	3 .00000E+00	4 .00000E+00				
5 .00000E+00	6 .00000E+00						
7 .00000E+00	8 .10000E+01	9 .10000E+01	10 .10000E+01				
11 .10000E+01	12 .10000E+01						
13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .00000E+00				

17	.00000E+00	18	.00000E+00					
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00					

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SOURCE ID = L0000090      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000091      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000092      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
    11 .10000E+01         12 .10000E+01
    13 .10000E+01         14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00         18 .00000E+00

```

19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

```

SOURCE ID = L0000093      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000094      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000095      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

SOURCE ID = L0000096 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000097 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000098 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000099 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000100 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00

	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01				
	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00				
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000101      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
    17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
    23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000102      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000103      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00        4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01        10 .10000E+01

```

11	.10000E+01	12	.10000E+01				
	13 .10000E+01	14 .10000E+01		15 .10000E+01	16 .00000E+00		
17	.00000E+00	18 .00000E+00					
	19 .00000E+00	20 .00000E+00		21 .00000E+00	22 .00000E+00		
23	.00000E+00	24 .00000E+00					

```

SOURCE ID = L0000104      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000105      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

```

SOURCE ID = L0000106      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00        4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01        10 .10000E+01
    11 .10000E+01         12 .10000E+01

```

	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00				
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00				

SOURCE ID = L0000107 ; SOURCE TYPE = VOLUME :								
1 .00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00		
5 .00000E+00	6	.00000E+00						
	7 .00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11 .10000E+01	12	.10000E+01						
	13 .10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17 .00000E+00	18	.00000E+00						
	19 .00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23 .00000E+00	24	.00000E+00						

SOURCE ID = L0000108 ; SOURCE TYPE = VOLUME :								
1 .00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00		
5 .00000E+00	6	.00000E+00						
	7 .00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11 .10000E+01	12	.10000E+01						
	13 .10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17 .00000E+00	18	.00000E+00						
	19 .00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23 .00000E+00	24	.00000E+00						

SOURCE ID = L0000109 ; SOURCE TYPE = VOLUME :								
1 .00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00		
5 .00000E+00	6	.00000E+00						
	7 .00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11 .10000E+01	12	.10000E+01						
	13 .10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17 .00000E+00	18	.00000E+00						
	19 .00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23 .00000E+00	24	.00000E+00						

SOURCE ID = L0000110 ; SOURCE TYPE = VOLUME :								
1 .00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00		
5 .00000E+00	6	.00000E+00						
	7 .00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01	
11 .10000E+01	12	.10000E+01						
	13 .10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00	
17 .00000E+00	18	.00000E+00						
	19 .00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00	
23 .00000E+00	24	.00000E+00						

Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
 *** 12:11:29

PAGE 31
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

SOURCE ID = L0000111 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000112 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000113 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000114 ; SOURCE TYPE = VOLUME :

	1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5		.00000E+00	6	.00000E+00				
	7	.00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11		.10000E+01	12	.10000E+01				
	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17		.00000E+00	18	.00000E+00				
	19	.00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23		.00000E+00	24	.00000E+00				

```

SOURCE ID = L0000115      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

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SOURCE ID = L0000116      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

SOURCE ID = L0000117 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00

```

SOURCE ID = L0000118      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
11   .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
17   .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
23   .00000E+00          24 .00000E+00

```

SOURCE	ID = L0000119	;	SOURCE TYPE = VOLUME	:			
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00				
	7 .00000E+00	8	.10000E+01	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01				
	13 .10000E+01	14	.10000E+01	15	.10000E+01	16	.00000E+00
17	.00000E+00	18	.00000E+00				
	19 .00000E+00	20	.00000E+00	21	.00000E+00	22	.00000E+00
23	.00000E+00	24	.00000E+00				

```

SOURCE ID = L0000120 ; SOURCE TYPE = VOLUME :
      1 .00000E+00    2 .00000E+00    3 .00000E+00    4 .00000E+00
      5 .00000E+00    6 .00000E+00
      7 .00000E+00    8 .10000E+01    9 .10000E+01   10 .10000E+01
  11 .10000E+01   12 .10000E+01
      13 .10000E+01   14 .10000E+01   15 .10000E+01   16 .00000E+00
  17 .00000E+00   18 .00000E+00
      19 .00000E+00   20 .00000E+00   21 .00000E+00   22 .00000E+00
  23 .00000E+00   24 .00000E+00

```

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* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR

OF THE DAY *

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

SOURCE ID = L0000121 ; SOURCE TYPE = VOLUME :							
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01	15	.10000E+01	16	.00000E+00
13	.10000E+01	14	.10000E+01	18	.00000E+00	22	.00000E+00
17	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000122 ; SOURCE TYPE = VOLUME :							
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01	15	.10000E+01	16	.00000E+00
13	.10000E+01	14	.10000E+01	18	.00000E+00	22	.00000E+00
17	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000123 ; SOURCE TYPE = VOLUME :							
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01	15	.10000E+01	16	.00000E+00
13	.10000E+01	14	.10000E+01	18	.00000E+00	22	.00000E+00
17	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000124 ; SOURCE TYPE = VOLUME :							
1	.00000E+00	2	.00000E+00	3	.00000E+00	4	.00000E+00
5	.00000E+00	6	.00000E+00	9	.10000E+01	10	.10000E+01
11	.10000E+01	12	.10000E+01	15	.10000E+01	16	.00000E+00
13	.10000E+01	14	.10000E+01	18	.00000E+00	22	.00000E+00
17	.00000E+00	19	.00000E+00	20	.00000E+00	21	.00000E+00
23	.00000E+00	24	.00000E+00				

SOURCE ID = L0000125 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

↑ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
 Cons HRA.isc *** 07/01/20
 *** AERMET - VERSION 16216 *** ***
 *** 12:11:29

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
 OF THE DAY *

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

SOURCE ID = L0000126 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

SOURCE ID = L0000127 ; SOURCE TYPE = VOLUME :
 1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
 5 .00000E+00 6 .00000E+00
 7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
 11 .10000E+01 12 .10000E+01
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
 17 .00000E+00 18 .00000E+00
 19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
 23 .00000E+00 24 .00000E+00

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SOURCE ID = L0000128      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000129      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

```

SOURCE ID = L0000130      ; SOURCE TYPE = VOLUME   :
    1 .00000E+00          2 .00000E+00          3 .00000E+00      4 .00000E+00
    5 .00000E+00          6 .00000E+00
    7 .00000E+00          8 .10000E+01          9 .10000E+01      10 .10000E+01
  11 .10000E+01          12 .10000E+01
    13 .10000E+01          14 .10000E+01          15 .10000E+01      16 .00000E+00
  17 .00000E+00          18 .00000E+00
    19 .00000E+00          20 .00000E+00          21 .00000E+00      22 .00000E+00
  23 .00000E+00          24 .00000E+00

```

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*** MODEL OPTs: REGDEFAULT CONC ELEV URBAN ADJ UI*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

SOURCE ID = L0000131 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000132 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000133 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000134 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

SOURCE ID = L0000135 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00

17 .00000E+00 18 .00000E+00
19 .00000E+00 20 .00000E+00 21 .00000E+00 22 .00000E+00
23 .00000E+00 24 .00000E+00

▲ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR
OF THE DAY *

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

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :
1 .00000E+00 2 .00000E+00 3 .00000E+00 4 .00000E+00
5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01 10 .10000E+01
11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .00000E+00
17 .00000E+00 18 .00000E+00 21 .00000E+00 22 .00000E+00
19 .00000E+00 20 .00000E+00
23 .00000E+00 24 .00000E+00

▲ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(416599.4, 3747177.7, 53.0, 53.0, 0.0); (416625.4,
3746916.5, 52.0, 52.0, 0.0); (417682.8, 3747428.4, 58.8, 58.8, 0.0); (417200.4,
3746576.5, 53.0, 53.0, 0.0); (418045.2, 3747006.9, 57.0, 57.0, 0.0); (417601.3,
3747089.0, 57.0, 57.0, 0.0); (416891.5, 3747936.3, 57.1, 57.1, 0.0); (417222.4,

3747968.4, 59.0, 59.0, 0.0);
 (417756.6, 3747903.5, 61.0, 61.0, 0.0);

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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

1.54, 3.09, 5.14, 8.23,
10.80,
↑ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: FullertonAirportADJU\KFUL_V9_ADJU\KFUL_v9.SFC
Met Version: 16216

Profile file: FullertonAirportADJU\KFUL_V9_ADJU\KFUL_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3166
Name: UNKNOWN

Upper air station no.: 3190
Name: UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD		HT	REF	TA							

12	01	01	1	01	-4.8	0.098	-9.000	-9.000	-999.	74.	18.0	0.26	2.61	
1.00	0.96	0.96	322.	322.	10.1	283.8	2.0							
12	01	01	1	02	-1.9	0.072	-9.000	-9.000	-999.	47.	18.0	0.26	2.61	
1.00	0.52	0.52	13.	13.	10.1	283.1	2.0							
12	01	01	1	03	-3.1	0.083	-9.000	-9.000	-999.	57.	16.3	0.26	2.61	
1.00	0.75	0.75	73.	73.	10.1	282.0	2.0							
12	01	01	1	04	-4.3	0.094	-9.000	-9.000	-999.	69.	17.3	0.26	2.61	
1.00	0.91	0.91	98.	98.	10.1	281.4	2.0							
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.26	2.61	
1.00	0.00	0.00	0.	0.	10.1	280.9	2.0							
12	01	01	1	06	-2.1	0.074	-9.000	-9.000	-999.	48.	17.6	0.26	2.61	
1.00	0.55	0.55	80.	80.	10.1	280.4	2.0							
12	01	01	1	07	-2.8	0.080	-9.000	-9.000	-999.	54.	16.3	0.26	2.61	
1.00	0.69	0.69	201.	201.	10.1	280.4	2.0							
12	01	01	1	08	-1.5	0.066	-9.000	-9.000	-999.	41.	17.0	0.26	2.61	
0.54	0.52	0.52	72.	72.	10.1	280.9	2.0							
12	01	01	1	09	37.4	-9.000	-9.000	-9.000	38.	-999.	-99999.0	0.26	2.61	
0.31	0.00	0.00	0.	0.	10.1	285.9	2.0							
12	01	01	1	10	109.1	0.151	0.713	0.008	121.	141.	-2.9	0.26	2.61	
0.24	0.79	0.79	268.	268.	10.1	289.9	2.0							
12	01	01	1	11	160.5	0.148	1.143	0.005	338.	136.	-1.8	0.26	2.61	
0.21	0.70	0.70	273.	273.	10.1	294.2	2.0							
12	01	01	1	12	186.9	0.156	1.483	0.005	634.	148.	-1.8	0.26	2.61	
0.20	0.74	0.74	230.	230.	10.1	297.5	2.0							
12	01	01	1	13	187.4	0.210	1.777	0.005	1088.	231.	-4.5	0.26	2.61	
0.20	1.20	1.20	227.	227.	10.1	300.4	2.0							
12	01	01	1	14	160.3	0.235	1.833	0.005	1395.	274.	-7.4	0.26	2.61	
0.21	1.47	1.47	233.	233.	10.1	300.9	2.0							
12	01	01	1	15	109.1	0.197	1.662	0.005	1527.	210.	-6.3	0.26	2.61	

0.25	1.20	233.	10.1	302.0	2.0						
12	01	01	1	16	33.3	0.243	1.125	0.005	1548.	288.	-39.2
0.33			1.91	229.	10.1	298.1	2.0				0.26
12	01	01	1	17	-9.1	0.141	-9.000	-9.000	-999.	132.	28.3
0.60			1.37	212.	10.1	294.2	2.0				0.26
12	01	01	1	18	-4.3	0.094	-9.000	-9.000	-999.	69.	17.5
1.00			0.91	190.	10.1	292.0	2.0				0.26
12	01	01	1	19	-2.8	0.079	-9.000	-9.000	-999.	54.	16.3
1.00			0.70	302.	10.1	289.2	2.0				0.26
12	01	01	1	20	-4.0	0.091	-9.000	-9.000	-999.	65.	17.0
1.00			0.87	338.	10.1	288.1	2.0				0.26
12	01	01	1	21	-6.3	0.113	-9.000	-9.000	-999.	91.	20.5
1.00			1.11	304.	10.1	287.0	2.0				0.26
12	01	01	1	22	-3.1	0.082	-9.000	-9.000	-999.	57.	16.3
1.00			0.75	76.	10.1	285.4	2.0				0.26
12	01	01	1	23	-2.4	0.076	-9.000	-9.000	-999.	50.	16.7
1.00			0.62	306.	10.1	284.9	2.0				0.26
12	01	01	1	24	-3.6	0.087	-9.000	-9.000	-999.	62.	16.6
1.00			0.82	318.	10.1	283.8	2.0				0.26

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
 12 01 01 01 10.1 1 322. 0.96 283.8 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)
*** AERMOD - VERSION 19191 *** *** C:\Lak
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000001 , L0000002
 , L0000003 , L0000004 , L0000005 ,
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010
 , L0000011 , L0000012 , L0000013 ,
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 ,
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
		CONC		
	- - - - -			
	416599.41	3747177.74	0.01937	416625.39
3746916.54	0.02141			
	417682.83	3747428.40	0.08306	417200.42
3746576.48	0.00676			
	418045.16	3747006.92	0.01663	417601.27
3747088.97	0.23518			
	416891.53	3747936.27	0.00476	417222.38
3747968.41	0.00844			
	417756.65	3747903.46	0.01434	

↑ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
 Cons HRA.isc ***
 07/01/20
 *** AERMET - VERSION 16216 *** ***
 *** 12:11:29

PAGE 41
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
 AVERAGED OVER 5 YEARS ***

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

NETWORK

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

57.00,	1ST HIGHEST VALUE IS 57.00, 0.00) DC	0.23518 AT (417601.27, 3747088.97,
58.75,	2ND HIGHEST VALUE IS 58.75, 0.00) DC	0.08306 AT (417682.83, 3747428.40,
52.04,	3RD HIGHEST VALUE IS 52.04, 0.00) DC	0.02141 AT (416625.39, 3746916.54,
53.00,	4TH HIGHEST VALUE IS 53.00, 0.00) DC	0.01937 AT (416599.41, 3747177.74,
57.00,	5TH HIGHEST VALUE IS 57.00, 0.00) DC	0.01663 AT (418045.16, 3747006.92,
61.00,	6TH HIGHEST VALUE IS 61.00, 0.00) DC	0.01434 AT (417756.65, 3747903.46,
	7TH HIGHEST VALUE IS	0.00844 AT (417222.38, 3747968.41,

59.01, 59.01, 0.00) DC
8TH HIGHEST VALUE IS 0.00676 AT (417200.42, 3746576.48,
53.00, 53.00, 0.00) DC
9TH HIGHEST VALUE IS 0.00476 AT (416891.53, 3747936.27,
57.13, 57.13, 0.00) DC
10TH HIGHEST VALUE IS 0.00000 AT (0.00, 0.00,
0.00, 0.00, 0.00)

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

▲ *** AERMOD - VERSION 19191 *** *** C:\Lakes\AERMOD View\13157 Cons HRA\13157
Cons HRA.isc *** 07/01/20
*** AERMET - VERSION 16216 *** ***
*** 12:11:29

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 2285 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1588 Calm Hours Identified

A Total of 697 Missing Hours Identified (1.59 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

ME W186 905 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 905 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

ATTACHMENT B: RISK CALCULATION WORKSHEETS

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario - Construction Activity

Source	Mass GLC		Weight Fraction (a)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
					URF (ug/m ³) (b)	CPF (ug/m ³) ⁻¹ (f)	DOSE (mg/kg/day) ⁻¹ (g)	RISK (h)	REL (ug/m ³) (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)
	(c)	(d)			(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
	0.01430	1.43E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-05	1.8E-06	5.0E+00	1.4E-03	2.9E-03							
TOTAL								1.8E-06			2.9E-03	0.0E+00						
1.80																		

** 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)	264
exposure duration (years)	1.25
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 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**									
		(a) (ug/m ³)	(b) (mg/m ³)			(d)	(e)	(c)	(i)	REL (ug/m ³) ¹	RfD (j)	RESP (k)	CNS/PNS (l)	CV/BL (m)	IMMUN (n)	KIDN (o)	GI/LV (p)	REPRO (q)	EYES (r)
1	Diesel Particulates	2.35E-01	2.35E-04	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.7E-05	6.9E-07	5.0E+00	1.4E-03	4.7E-02	6.9E-07 0.69	4.7E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	TOTAL																		

** 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)	1.25
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		