



Vernola Marketplace Apartment Community (MA 21046)

**AIR TOXIC AND CRITERIA POLLUTANT HEALTH
RISK ASSESSMENT
CITY OF JURUPA VALLEY**

PREPARED BY:

Haseeb Qureshi
hqureshi@urbanxroads.com
(949) 336-5987

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LIST OF ABBREVIATED TERMS

(1)	Reference
AADT	Annual Average Daily Traffic Volumes
ARB	Air Resources Board
CAAQS	California Ambient Air Quality Standards
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
CO	Carbon Monoxide
CPF	Cancer Potency Factor
EPA	Environmental Protection Agency
HRA	Health Risk Assessment
LDA	Light Duty Auto
LDT	Light Duty Truck
LHD	Light Heavy Duty
MCY	Motorcycle
MDV	Medium Duty Vehicle
NO ₂	Nitrogen Dioxide
OBUS	Other Bus
PM ₁₀	Particulate Matter 10 microns in diameter or less
PM _{2.5}	Particulate Matter 2.5 microns in diameter or less
PPM	Parts per Million
Project	Crestview Apartments
PVMRM	Plume Volume Molar Ratio Methods
REL	Reference Exposure Level
RME	Reasonable Maximum Exposure
SBUS	School Bus
SCAQMD	South Coast Air Quality Management District
TACs	Toxic Air Contaminants
UBUS	Urban Bus
URF	Unit Risk Factor
UTM	Universal Traverse Mercator

EXECUTIVE SUMMARY

In 2005, the California Air Resources Board (ARB) promulgated an advisory recommendation to avoid setting sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. The ARB indicates that due to traffic-generated pollutants, there is an estimated increased cancer risk incidence of 300 to 1,700 per million within this domain. At some point however, the increased cancer risk incidence due the effects of freeway/roadway corridor pollutants become indistinguishable from the ambient air quality condition. In this regard, the effects of freeway/roadway-source pollutants that may impact the Project site are already acknowledged and accounted for within the ambient air quality discussions presented within this Section. More specifically, the MATES-IV Study data for the Project site comprehensively reflects increased TAC-source cancer risks affecting the City and Project site, inclusive of increased cancer risks due to freeway sources.

The 2005 ARB guidance noted previously, information made available through the MATES-IV Study, and configuration and design of the Project would suggest that further assessment of freeway-source pollutant impacts is not warranted. Notwithstanding, this Off-Site Freeway-Source Air Toxic and Criteria Pollutant Health Risk Assessment has been prepared for the Project and is intended to:

- Comply with and support CEQA Section 15003 (i) policies addressing adequacy, completeness, and a good-faith effort at full disclosure;
- Disaggregate potential freeway-source air pollutant health effects from other background conditions identified in the MATES IV Study; and
- Identify means to reduce the specific effects of freeway-source pollutants at the Project site.

Findings and conclusions of this Assessment are summarized below.

SUMMARY OF FINDINGS

For carcinogenic exposures resulting from exposure to toxics from the freeway, the summation of risk for the maximum exposed residential receptor totaled 4.60 in one million and will not exceed the SCAQMD significance threshold of 10 in one million.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one. For acute exposures, the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 0.82 $\mu\text{g}/\text{m}^3$ and 0.49 $\mu\text{g}/\text{m}^3$ for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 $\mu\text{g}/\text{m}^3$ and 1.0 $\mu\text{g}/\text{m}^3$, respectively.

For PM2.5, a maximum 24-hour average concentration of 0.33 $\mu\text{g}/\text{m}^3$ was predicted. This value also will not exceed the identified significance threshold of 2.5 $\mu\text{g}/\text{m}^3$.

The maximum modeled 1-hour average concentration for CO of 0.11 parts per million (ppm), when added to an existing background concentration of 2.2 ppm, would equal a total Project concentration of 2.31 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.09 ppm, when added to an existing background level of 2.0 ppm, would equal a total Project concentration of 2.09 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO₂, a maximum one-hour concentration of 0.011 ppm was predicted. This concentration, when added to a background concentration of 0.066 ppm, would equal a total Project concentration of 0.078 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who would access and utilize outdoor amenities.

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1 INTRODUCTION

In 2005, the California Air Resources Board (ARB) promulgated an advisory recommendation to avoid setting sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day or rural roads with 50,000 vehicles per day. According to the ARB, the increased cancer risk is 300 to 1,700 per million within this domain. The strongest association of traffic related emissions with adverse health outcomes was seen within 300 feet of roadways with high truck densities. Notwithstanding, the ARB notes that a site-specific analysis would be required to determine the actual risk near a particular land use and should consider factors such as prevailing wind direction, local topography and climate.

In consideration of the above referenced requirement, the assessment and dispersion modeling methodologies used in the preparation of this report were composed of all relevant and appropriate procedures presented by the U.S. Environmental Protection Agency, California Environmental Protection Agency and South Coast Air Quality Management District (SCAQMD). The methodologies and assumptions offered under this regulatory guidance were used to ensure that the assessment effectively quantified residential exposures associated with the generation of contaminant emissions from adjacent mobile source activity.

This report summarizes the protocol used to evaluate contaminant exposures and presents the results of the health risk assessment (HRA) prepared by Urban Crossroads, Inc., for the proposed Vernola Marketplace Apartment Community development (referred to as “Project”).

1.1 SITE LOCATION

The proposed project is located east of the I-15 freeway between Limonite Avenue and 68th Street, west of Pats Ranch Road in the City of Jurupa Valley as shown on Exhibit 1-A. The nearest existing residential land uses are located east of the Project site across Pats Ranch Road and west of the Project site across the I-15 Freeway. The initial Phase A Vernola Marketplace Apartment Community project is located to the south.

1.2 PROJECT DESCRIPTION

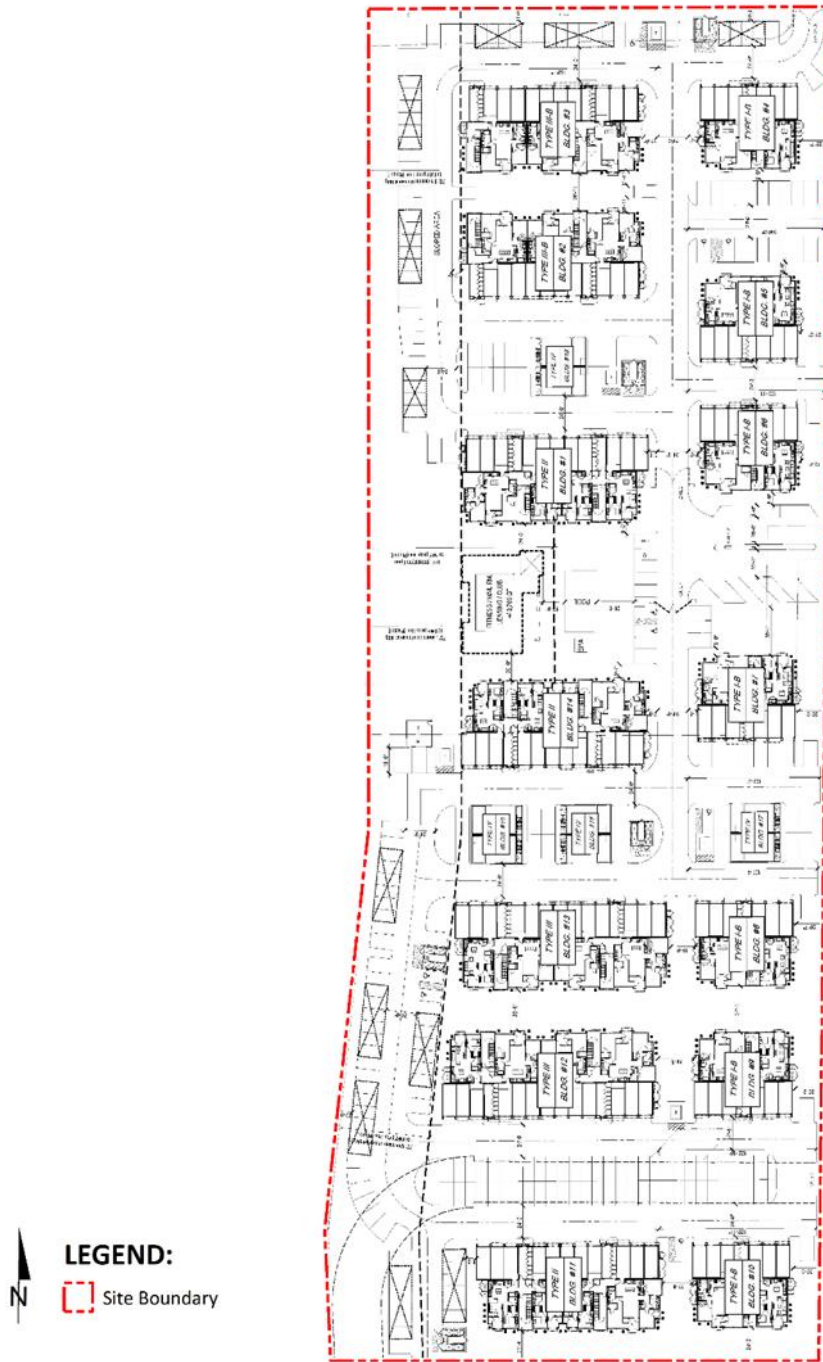
The project includes a 3-story multifamily housing community with 210 units. The proposed project site is currently zoned as light industrial land use. The project proposes to change the land use in the General Plan to highest density residential (HHDR). Exhibit 1-B illustrates a preliminary site plan for the Project. As required by the California Building Energy Efficiency Standards (Title 24, Part 6 of California Code of Regulations (CCR)), the Project will install air filtration systems with efficiencies equal to or exceeding a Minimum Efficiency Reporting Value (MERV) 13 as defined by the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 52.2. (1)¹.

1 The use of MERV filtration systems to reduce DPM and particulates has been successfully implemented by several lead agencies, including, but not limited to: City of Los Angeles, City of Claremont, City of Irvine, City of Glendale, City of Berkley, City of Oakland, and the Los Angeles Unified School District (LAUSD). The average particle size efficiency (PSE) removal for MERV 13 as defined by the 2019 Title 24 standards is approximately 50% for 0.3 to 1.0 $\mu\text{g}/\text{m}^3$ (DPM), 85% for 1.0 to 3.0 $\mu\text{g}/\text{m}^3$ (PM2.5), and 90% for 3.0 to 10.0 $\mu\text{g}/\text{m}^3$ (PM10) (2).

EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE PLAN



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2 SOURCE IDENTIFICATION

The California Department of Transportation (Caltrans), Traffic and Vehicle Data Systems Unit collects and maintains traffic volume counts for vehicles traversing the California state highway system. Table 2-1 presents the annual average daily traffic volumes (AADT) for the freeway segment considered in the assessment. The AADT volumes for I-15 are based on existing volumes obtained from the Caltrans Traffic Data Brand Annual Average Daily Truck Traffic on the California Highway System data.

TABLE 2-1 FREEWAY TRAFFIC VOLUMES

Roadway Segment	AADT	Vehicles Per Hour (ALL)	Vehicles Per Hour (gas)	Vehicles Per Hour (diesel)
I-15 Freeway	152,000	6,333	6,085	248

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3 SOURCE CHARACTERIZATION

In urban communities, vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources are characterized by vehicle mix, the rate pollutants are generated during the course of travel and the number of vehicles traversing the roadway network.

Currently, emission factors are generated from a series of computer based programs to produce a composite emission rate for vehicles traveling at various speeds within a defined geographical area or along a discrete roadway segment. To account for the emission standards imposed on the California fleet, the ARB has developed the EMFAC2017 emission factor model. EMFAC2017 was utilized to identify pollutant emission rates for total organic gases (TOG), diesel particulates, particulates (PM10 and PM2.5), carbon monoxide (CO) and nitrogen oxide (NOx) compounds (2). To produce a representative vehicle fleet distribution, the assessment utilized ARB's Riverside County vehicle population estimates for the 2023 calendar year, consistent with the Project's anticipated Opening Year for analytical purposes. This approach provides an estimate of vehicle mix associated with operational profiles at the link or intersection level. Table 3-1 lists the identified fleet mix considered in the assessment.

Based upon the freeway traffic volumes and vehicle population profiles noted above, discrete traffic counts were identified for each roadway segment. Diesel vehicles account for 3.92 percent of the total on-road mobile fleet. For chronic (long term) and acute (e.g., 1-hour) exposures, AADT values were averaged to produce representative hourly traffic volumes.

TABLE 3-1: VEHICLE FLEET MIX PROFILE

Vehicle class	Riverside County		
	Fuel	Population	Percent
LDA	Diesel	772,785.87	51.76%
LDA	Gas	7,300.59	0.49%
LDA	Electric	12,758.75	0.85%
LDT1	Diesel	39.18	0.00%
LDT1	Gas	82,772.07	5.54%
LDT1	Electric	485.08	0.03%
LDT2	Diesel	1,463.53	0.10%
LDT2	Gas	252,998.01	16.95%
LDT2	Electric	2,319.02	0.16%
LHD1	Diesel	20,161.77	1.35%
LHD1	Gas	20,620.88	1.38%
LHD2	Diesel	7,795.76	0.52%
LHD2	Gas	3,286.38	0.22%
MCY	Gas	36,240.66	2.43%
MDV	Diesel	4,324.74	0.29%
MDV	Gas	208,995.21	14.00%
MDV	Electric	1,262.69	0.08%
MHDT	Diesel	2,591.61	0.17%
MHDT	Gas	6,006.90	0.40%
HHDT	Diesel	15,610.04	1.05%
HHDT	Gas	2,027.16	0.14%
HHDT	Natural Gas	27,819.82	1.86%
OBUS	Diesel	7.26	0.00%
OBUS	Gas	316.99	0.02%
SBUS	Diesel	351.64	0.02%
SBUS	Gas	588.34	0.04%
UBUS	Diesel	1,154.01	0.08%
UBUS	Gas	490.88	0.03%
UBUS	Electric	1.11	0.00%
UBUS	Natural Gas	164.46	0.01%

Note: Vehicle category descriptions can be found on the California Air Resources Board website at <http://www.arb.ca.gov/msei/modeling.htm>.

Average observed route speeds were assumed for vehicles traversing the main highway link (I-15).

For particulates (PM10 and PM2.5), emissions were quantified through the reentrainment of paved roadway dust. The predictive emission equation developed by the U.S. Environmental Protection Agency (AP-42, Section 13.2.1) was utilized to generate particulate source strength (3). To account for the mass rate of emissions entrained from the roadway surface, the contribution from exhaust, break and tire wear were added to the AP-42 emission factor equation.

A list of compounds associated with mobile source emissions is presented in Table 3-3. Appendix 3.1 presents the on-road emission rate calculation worksheets for the freeway segments considered in the assessment.

TABLE 3-3: COMPOUNDS EMITTED FROM ON ROAD MOBILE SOURCE ACTIVITY

Source	Pollutant
Freeway	Benzene Formaldehyde 1,3-Butadiene Acetaldehyde Acrolein Diesel Particulates Reentrained Particulates (PM10, PM2.5) Carbon Monoxide Nitrogen Dioxide

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4 EXPOSURE QUANTIFICATION

In order to assess the impact of emitted compounds on individuals who reside at the proposed apartment complex, air quality modeling utilizing the AMS/EPA Regulatory Model AERMOD was performed to assess the downwind extent of mobile source emissions located within a 1,000 feet of the project site. AERMOD's air dispersion algorithms are based upon a planetary boundary layer turbulence structure and scaling concepts, including the treatment of surface and elevated sources in simple and complex terrain.

The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for sources representative of a localized mobile fleet. For this assessment, the volume source algorithm was utilized to model the emissions generated from on-road mobile source activity.

The modeling conservatively utilizes the full conversion protocol to perform the NO_x to NO₂ conversion.

Air dispersion models require additional input parameters including pollutant emission data and local meteorology. Due to their sensitivity to individual meteorological parameters such as wind speed and direction, the U.S. Environmental Protection Agency recommends that meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. In response to this recommendation, the nearest meteorological data available from the SCAQMD Riverside Airport Meteorological Data Station (Source Receptor Area 23), was used to represent local weather conditions and prevailing winds. Five years (2012-2016) of available AERMOD meteorological data was utilized in the modeling, which is the latest available information from SCAQMD.

The modeling analysis also considered the spatial distribution of mobile source activity traversing the freeway in relation to the proposed site. To accommodate a Cartesian grid format, direction dependent calculations were obtained by identifying the universal transverse mercator (UTM) coordinates for each volume source location. On-site receptors were placed to provide coverage across the identified residential portion of the site. A ground level receptor height was assumed as a conservative measure. A graphical representation of the source-receptor grid network is presented in Exhibit 4-A. A complete listing of model input/output files are provided in electronic format in Appendix 4.1.

EXHIBIT 4-A: SOURCE RECEPTOR GRID NETWORK



= Modeled Sensitive Receptors



= Modeled Emissions Source

5 RISK CHARACTERIZATION

5.1 CARCINOGENIC CHEMICAL RISK

The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than ten in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (4), for purposes of this analysis, ten (10) in one million is used as the cancer risk threshold for the proposed Project.

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 1 in a million implies a likelihood that up to one person, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. This risk would be an excess cancer risk that is in addition to any cancer risk borne by a person not exposed to these air toxics.

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu\text{g}/\text{m}^3$) over a 70-year lifetime. The URFs utilized in the assessment and corresponding cancer potency factors were obtained from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values*.

Notwithstanding, it is the intent of the HRA to provide cumulative risk estimates from near-field on-road sources that are reflective of anticipated exposures experienced at a given residential occupancy. As such, a review of relevant guidance was conducted to determine applicability of the use of early life exposure adjustments to identified carcinogens. For risk assessments conducted under the auspices of The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, Connelly, Statutes of 1987; Health and Safety Code Section 44300 et seq.) a weighting factor is applied to all carcinogens regardless of purported mechanism of action. However, for this assessment, the HRA relied upon U.S. Environmental Protection Agency guidance relating to the use of early life exposure adjustment factors (Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens, EPA/630/R-003F) whereby 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 U.S. Environmental Protection Agency has identified 19 compounds that elicit a mutagenic mode of action for carcinogenesis. None of the gaseous compounds considered in the HRA elicit a mutagenic mode of action and, therefore, early life exposure adjustments were not considered. For diesel particulates, polycyclic aromatic 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 Agency reports that whole diesel engine exhaust has not been shown to elicit a mutagenic mode of action.

Accordingly, the health risks to children were not underestimated in the Health Risks Assessment. As discussed, the use of age-weighted factors is not required because none of the gaseous compounds considered in the HRA elicit a primary mutagenic mode of action and none of the pollutants considered are listed by the EPA as having a primary mutagenic mode of action. Therefore, early life exposure adjustments were not considered in accordance with U.S. EPA guidance relating to the use of early life exposure adjustment factors. This analysis appropriately accounts for potential health risk to future residents at the project site.

To effectively quantify dose, the procedure requires the incorporation of several discrete exposure variates. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)⁻¹ to derive the cancer risk estimate. Therefore, to assess exposures associated with the proposed residential population, the following dose algorithm was utilized.

$$CDI = (C_{air} \times EF \times ED \times IR) / (BW \times AT)$$

Where:

- CDI = chronic daily intake (mg/kg/day)
- C_{air} = concentration of contaminant in air (mg/m³)
- EF = exposure frequency (days/year)
- ED = exposure duration (years)
- IR = inhalation rate (m³/day)
- BW = body weight (kg)
- AT = averaging time (days)

To represent residential exposures, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). Specifically, activity patterns for population mobility recommended by the U.S. Environmental Protection Agency and presented in the *Exposure Factors Handbook* were utilized. As a result, lifetime risk values for residents were adjusted to account for an exposure duration of 350 days per year for 30 years (i.e., 95th percentile). These values are consistent with the California Environmental Quality Act which considers the evaluation of environmental effects of



proposed projects in a manner that reflects both reasonable and feasible assumptions. For body weight and inhalation, the assessment employed average adult values of 70 kilograms and 20 cubic meters per day, respectively.

For carcinogenic exposures resulting from exposure to toxics from the freeway, the summation of risk for the maximum exposed residential receptor totaled 4.60 in one million and will not exceed the SCAQMD significance threshold of 10 in one million.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the OEHHA guidance document entitled Air Toxic Hot Spots Program Risk Assessment Guidelines, Part IV: Technical Support Document for Exposure Assessment and Stochastic Analysis (5) and guidance from SCAQMD.

Table 5-1 summarizes the Exposure Parameters for Residents. Appendix 5.1 includes the detailed emissions and risk calculation outputs. (6)

TABLE 5-1: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK

Exposure Parameter	Units	Residential
Exposure Frequency	days/year	350
Exposure Duration	years	70
Inhalation Rate ^a	L/kg-day	302
Exposure Duration	Years	30
Exposure Time	hours/day	24
^a The residential breathing rate of 302 L/kg-day represents the 80 th percentile breathing rate per ARB and consistent with SCAQMD Risk Assessment Procedures for Rules 1401 and 212, the worker breathing rate of 149 L/kg-day is also consistent with SCAQMD Risk Assessment Procedures for Rules 1401 and 212, the school child breathing rate of 581 L/kg-day represents the high end 95 th percentile breathing rate.		

5.2 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncancerous effects of contaminant exposures was also conducted. Under the point estimate approach, adverse health effects are evaluated by comparing the concentration of each compound with the appropriate Reference Exposure Level (REL). Available REL's presented in the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values were considered in the assessment.*

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that subthreshold exposures adversely affect a specific organ or organ system (i.e., toxicological endpoint). For each discrete pollutant exposure, target organs presented in regulatory guidance were utilized.

To calculate the hazard index, the pollutant concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds one (i.e., unity), a health hazard is presumed to exist. For chronic exposures, REL's were converted to units expressed in mg/kg/day to accommodate the above referenced intake algorithm. To assess acute noncancer impacts, the maximum pollutant

concentration is divided by the REL for the corresponding averaging time (e.g., 1-hour). No exposure adjustments are considered for short duration exposures.

Appendix 5.1, summarizes the REL's and corresponding reference dose values used in the evaluation of chronic noncarcinogenic and acute exposures. The noncancer hazard quotient for identified compounds generated from each source and a summation for each toxicological endpoint are presented on this table.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than the threshold of 1.0 for all exposure scenarios. For acute exposures, the hazard indices for the identified averaging times did not exceed the threshold of 1.0. Therefore, acute and chronic non-carcinogenic hazards were predicted to be within acceptable limits and are less than significant.

5.3 POTENTIAL CANCER AND NON-CANCER RISKS²

For carcinogenic exposures the summation of risk for the maximum exposed residential receptor totaled 3.45 in one million, which does not exceed the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be less than 1.0 for all toxicological endpoints.

5.4 CRITERIA POLLUTANT EXPOSURES

The State of California has promulgated strict ambient air quality standards for various pollutants. These standards were established to safeguard the public's health and welfare with specific emphasis on protecting those individuals susceptible to respiratory distress, such as asthmatics, the young, the elderly and those with existing conditions which may be affected by increased pollutant concentrations. However, recent research has shown that unhealthful respiratory responses occur with exposures to pollutants at levels that only marginally exceed clean air standards. Table 5-1 presents the CAAQS for the criteria pollutants considered in the assessment.

Pollutant emissions are considered to have a significant effect on the environment if they result in concentrations that create either a violation of an ambient air quality standard, contribute to an existing air quality violation or expose sensitive receptors to substantive pollutant concentrations. Should ambient air quality already exceed existing standards, the SCAQMD has established significance criteria for selected compounds to account for the continued degradation of local air quality. Background concentrations are based upon the highest observed value for the most recent three-year period.

For PM₁₀ emissions, background concentrations representative of the project area exceed the CAAQS for the 24-hour and annual averaging times. As a result, a significant impact is achieved when pollutant concentrations produce a measurable change over existing background levels.

² SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

Although background concentrations exceed the CAAQS annual averaging time for fine particulates, no measurable change criteria currently exists. As a result, the SCAQMD significance threshold of 2.5 µg/m³ for the 24-hour averaging time is used to assess PM_{2.5} impacts.

For the CO 1 and 8-hour averaging times and NO₂ 1-hour averaging time, background concentrations are below the current air quality standards. As such, significance is achieved when pollutant concentrations add to existing levels and create an exceedance of the CAAQS. Table 5-2 shows the pollutant concentrations collected at the nearest available monitoring site to the Project for the last three years of available data. Table 5-3 outlines the relevant significance thresholds considered to affect local air quality.

TABLE 5-1: CALIFORNIA AMBIENT AIR QUALITY STANDARDS

Pollutant	Standard	Health Effects
Particulates (PM10)	>50 µg/m ³ (24 hr avg.) >20 µg/m ³ (Annual)	1) Excess deaths from short-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory disease. 2) Excess seasonal declines in pulmonary function especially in children.
Particulates (PM2.5)	>12 µg/m ³ (Annual)	1) Excess deaths and illness from long-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory and cardio pulmonary disease.
Carbon Monoxide (CO)	>9.0 ppm (8 hr avg.) >20.0 ppm (1 hr avg.)	1) Aggravation of angina pectoris and other aspects of coronary heart disease. 2) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease. 3) Impairment of central nervous system functions. 4) Possible increased risk to fetuses.
Nitrogen Dioxide (NO ₂)	>0.18 ppm (1 hr avg.)	1) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups. 2) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes.

Abbreviations: ppm: parts per million; µg/m³: micrograms per cubic meter.
Source: California Code of Regulations, Title 17, Section 70200.

TABLE 5-2: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2012-2014³

Pollutant/ Averaging Time	Year			
	2018	2019	2020	Maximum
Particulates (PM ₁₀) 24-Hour	126	99	104	126
Particulates (PM _{2.5}) 24-Hour	50.70	46.7	41	50.70
Carbon Monoxide (CO) 1-Hour	2.2	1.5	1.9	2.2
8-Hour	2.0	1.2	1.4	2.0
Nitrogen Dioxide (NO ₂) 1-Hour	0.055	0.056	0.066	0.066

Note: PM₁₀ concentrations are expressed in micrograms per cubic meter (µg/m³). All others are expressed in parts per million (ppm).
Source: U.S. Environmental Protection Agency http://www.epa.gov/airdata/ad_rep_mon.html

TABLE 5-3: SCAQMD AIR QUALITY SIGNIFICANCE THRESHOLDS

Pollutant	Averaging Time	Pollutant Concentration
Particulates (PM ₁₀) Particulates (PM _{2.5})	24-Hours	2.5 µg/m ³ (operation)
Particulates (PM ₁₀)	Annual	1.0 µg/m ³
Carbon Monoxide (CO)	1/8-Hours	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standards 20 ppm (1-hour) and 9 ppm (8-hour).
Nitrogen Dioxide (NO ₂)	1-Hour	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standard 0.18 ppm.

Abbreviations: ppm: parts per million; µg/m³: micrograms per cubic meter
Source: South Coast Air Quality Management District.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM₁₀ concentrations of 0.82 µg/m³ and 0.49 µg/m³ for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 µg/m³ and 1.0 µg/m³, respectively.

For PM_{2.5}, a maximum 24-hour average concentration of 0.33 µg/m³ was predicted. This value also will not exceed the identified significance threshold of 2.5 µg/m³.

³ PM₁₀, PM_{2.5}, CO, and NO₂ data obtained from the SRA23 monitoring station.

The maximum modeled 1-hour average concentration for CO of 0.11 parts per million (ppm), when added to an existing background concentration of 2.2 ppm, would equal a total Project concentration of 2.31 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.09 ppm, when added to an existing background level of 2.0 ppm, would equal a total Project concentration of 2.09 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO₂, a maximum one-hour concentration of 0.011 ppm was predicted. This concentration, when added to a background concentration of 0.066 ppm, would equal a total Project concentration of 0.078 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who would access and utilize outdoor amenities.

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6 FINDINGS & CONCLUSIONS

For carcinogenic exposures resulting from exposure to toxics from the freeway, the summation of risk for the maximum exposed residential receptor totaled 4.60 in one million and will not exceed the SCAQMD significance threshold of 10 in one million.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one. For acute exposures, the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 0.82 $\mu\text{g}/\text{m}^3$ and 0.49 $\mu\text{g}/\text{m}^3$ for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 $\mu\text{g}/\text{m}^3$ and 1.0 $\mu\text{g}/\text{m}^3$, respectively.

For PM2.5, a maximum 24-hour average concentration of 0.33 $\mu\text{g}/\text{m}^3$ was predicted. This value also will not exceed the identified significance threshold of 2.5 $\mu\text{g}/\text{m}^3$.

The maximum modeled 1-hour average concentration for CO of 0.11 parts per million (ppm), when added to an existing background concentration of 2.2 ppm, would equal a total Project concentration of 2.31 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.09 ppm, when added to an existing background level of 2.0 ppm, would equal a total Project concentration of 2.09 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one-hour concentration of 0.011 ppm was predicted. This concentration, when added to a background concentration of 0.066 ppm, would equal a total Project concentration of 0.078 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who would access and utilize outdoor amenities.

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7 REFERENCES

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8 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Vernola Marketplace Apartment Community Project. The information contained in this health risk assessment is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 660-1994.

Haseeb Qureshi
Associate Principal
URBAN CROSSROADS, INC.

(949) 660-1994
hqureshi@urbanxroads.com

EDUCATION

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

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

PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

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

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APPENDIX 1.1:
MERV FILTER EFFICIENCY

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TECH TIPS

Sales and Marketing Information on Airguard Air Filtration Products

ASHRAE Standard 52.2 Explained

ASHRAE Efficiency Ratings Provide New Method Of Measuring Filter Performance

The new ASHRAE Standard 52.2 provides the first industry accepted procedure for measuring filter efficiency by particle size.

The need for a more precise measurement of a filter's ability to remove specific particle sizes has become more critical as concern over indoor air quality, respirable particles, as well as protection of products and processes, has continued to grow.

Standard 52.2 Supplements Standard 52.1

Standard 52.2 is not intended to be a replacement for standard 52.1. Both will continue to be relied upon as the industry accepted measures of filter performance. The arrestance and dust holding capacity data provided by Standard 52.1 will remain as valuable performance characteristics. However, it is anticipated that as the fractional efficiency test (52.2) becomes more widely understood and accepted, the atmospheric dust spot efficiency test (52.1) will no longer be utilized.

Particle Size Ranges

The 52.2 procedure calls for efficiency measurements to be taken on twelve (12) particle size ranges. (See example to right.)

For reporting and rating purposes, these twelve (12) ranges are grouped into three (3) wider ranges:

E₁ - 0.3 - 1.0 Microns

E₂ - 1.0 - 3.0 Microns

E₃ - 3.0 - 10.0 Microns

Standard 52.2 Test Procedure

Efficiency measurements are taken on each of the twelve (12) particle size ranges at six (6) different points during the test:

Clean (after (4) increments of dust loading).

After the final resistance has been reached.

Standard synthetic ASHRAE dust, comprised of 72% SAE standard J726 test dust (fine), 23% powdered carbon, and 5% milled cotton linters is used to load the filter in five (5) equal increments.

The six (6) efficiency measurements for each of the twelve (12) particle size ranges (72 total efficiency measurements) are taken by challenging the filter with potassium chloride (KCl) particles. This test aerosol provides particles over the entire range of 0.3 to 10.0 microns required by the test procedure.

The lowest efficiency value (of the six (6) measurements taken throughout the test) for each of the twelve (12) particle size ranges is recorded. (Note: The six (6) readings for each particle size range are not averaged. The lowest efficiency value is used.)

The twelve (12) readings are grouped into the three (3) wider ranges (E₁, E₂, E₃).

These values are then averaged to provide an average Particle Size Efficiency (PSE) for each range. The PSE values are used to classify the filter into one of the sixteen (16) Minimum Efficiency Reporting Value (MERV) Ratings.

Standard Test Air Flow Rates

Standard 52.2 prescribes that the tests are to be run at one of seven (7) air flow rates:

118 FPM (.60 m/s)

246 FPM (1.25 m/s)

295 FPM (1.50 m/s)

374 FPM (1.90 m/s)

492 FPM (2.50 m/s)

630 FPM (3.20 m/s)

748 FPM (3.80 m/s)

Example: MERV-14 Rating (see back for MERV Rating Schedule.)

Particle Size Range (Microns)	Lowest Efficiency (%) (based on 6 readings over life of test)	Average Particle Size Efficiency (PSE)
.30 - .40	74%	84% (E ₁)
.40 - .55	82%	
.55 - .70	87%	
.70 - 1.0	92%	
1.0 - 1.3	96%	98% (E ₂)
1.3 - 1.6	98%	
1.6 - 2.2	99%	
2.2 - 3.0	100%	
3.0 - 4.0	100%	100% (E ₃)
4.0 - 5.5	100%	
5.5 - 7.0	100%	
7.0 - 10.0	100%	

To determine the MERV Rating, start with the PSE value for E₁, then E₂, then E₃ to arrive at the proper rating:

E₁ is 84%: Therefore the maximum rating would be MERV-14.

E₂ and E₃ both exceed 90%: therefore the filter receives an MERV-14 Rating.



Tech Tips

Sales and Marketing Information on Airguard Air Filtration Products

Minimum Efficiency Reporting Values (MERV) ASHRAE Standard 52.2

Group Number	MERV Rating	E ₁	E ₂	E ₃	Average Arrestance (ASHRAE 52.1)	Minimum Final Resistance (In. W.G.)
		Average Particle Size Efficiency (PSE) 0.3 - 1.0 Microns	Average Particle Size Efficiency (PSE) 1.0 - 3.0 Microns	Average Particle Size Efficiency (PSE) 3.0 - 10.0 Microns		
1	MERV 1	-	-	Less than 20%	Less than 65%	0.3"
	MERV 2	-	-	Less than 20%	65 - 69.9%	0.3"
	MERV 3	-	-	Less than 20%	70 - 74.9%	0.3"
	MERV 4	-	-	Less than 20%	75% or greater	0.3"
2	MERV 5	-	-	20 - 34.9%	-	0.6"
	MERV 6	-	-	35 - 49.9%	-	0.6"
	MERV 7	-	-	50 - 69.9%	-	0.6"
	MERV 8	-	-	70 - 84.9%	-	0.6"
3	MERV 9	-	Less than 50%	85% or greater	-	1.0"
	MERV 10	-	50% - 64.9%	85% or greater	-	1.0"
	MERV 11	-	65% - 79.9%	85% or greater	-	1.0"
	MERV 12	-	80% - 89.9%	90% or greater	-	1.0"
4	MERV 13	Less than 75%	90% or greater	90% or greater	-	1.4"
	MERV 14	75% - 84.9%	90% or greater	90% or greater	-	1.4"
	MERV 15	85% - 94.9%	90% or greater	90% or greater	-	1.4"
	MERV 16	95% or Greater	95% or greater	95% or greater	-	1.4"

Notes:

- ASHRAE Standard 52.2 tests are to be conducted at one of seven (7) air flow rates:

118 FPM (.60 m/s)	492 FPM (2.50 m/s)
246 FPM (1.25 m/s)	630 FPM (3.20 m/s)
295 FPM (1.50 m/s)	748 FPM (3.80 m/s)
374 FPM (1.90 m/s)	
- The air flow rate at which the filter was tested is included in the MERV rating (MERV-10 @2.5 m/s).
- Filters with an E₃ efficiency of less than 20% (MERV-1 through MERV-4) must also be tested for arrestance per ASHRAE Standard 52.1.
- Final resistance must be at least twice the initial resistance at the test air flow rate, or the values shown in the table above, whichever is greater.

A-TT52.2-308



www.airguard.com



CLARCOR Air Filtration Products
 P. O. Box 32578 • Louisville, KY 40232
 Customer Service Team: 1-866-247-4827 • Fax: 1-800-784-3458
 Email: mailbag@airguard.com • www.airguard.com

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APPENDIX 3.1:
EMISSION RATE CALCULATION WORKSHEETS

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Running Rate Emission Summary

Criteria 65 mph

CO 1.191

NO_x 0.221

PM10 0.0036

PM2.5 0.0034

TOG GAS 0.090

TOG DSL 0.058

DSL Particulate 0.036

TW/BW Emission Summary

Total

PM10 0.047

PM2.5 0.019

EMFAC2017
Worksheet
(65 mph)

EMFAC2017 Emission Rates
Region Type: County
Region: Riverside (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Pollutant Classification: TOG GAS

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX_AVE (gms/mile)
Riverside	2023	Annual	LDA	GAS	Aggregated	65	772785.866	0.5572	0.0114327	0.0064
Riverside	2023	Annual	LDT1	GAS	Aggregated	65	82772.070	0.0597	0.0402512	0.0024
Riverside	2023	Annual	LDT2	GAS	Aggregated	65	252998.013	0.1824	0.0205177	0.0037
Riverside	2023	Annual	LHDT1	GAS	Aggregated	65	20620.883	0.0149	0.0414682	0.0006
Riverside	2023	Annual	LHDT2	GAS	Aggregated	65	3286.375	0.0024	0.0251380	0.0001
Riverside	2023	Annual	MCY	GAS	Aggregated	65	36240.661	0.0261	2.7713100	0.0724
Riverside	2023	Annual	MDV	GAS	Aggregated	65	208995.205	0.1507	0.0282720	0.0043
Riverside	2023	Annual	MH	GAS	Aggregated	65	6006.899	0.0043	0.0772430	0.0003
Riverside	2023	Annual	MHDT	GAS	Aggregated	65	2027.159	0.0015	0.0844137	0.0001
Riverside	2023	Annual	HHDT	GAS	Aggregated	65	7.255	0.0000	0.6228095	0.0000
Riverside	2023	Annual	OBUS	GAS	Aggregated	65	588.343	0.0004	0.0727389	0.0000
Riverside	2023	Annual	SBUS	GAS	Aggregated	65	490.882	0.0004	0.0000000	0.0000
Riverside	2023	Annual	UBUS	GAS	Aggregated	65	164.455	0.0001	0.0070590	0.0000
							1386984	1.0		0.090

EMFAC2017 Emission Rates
Region Type: County
Region: Riverside (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Pollutant Classification: TOG DSL

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX_AVE (gms/mile)
Riverside	2023	Annual	LDA	DSL	Aggregated	65	7300.591	0.0824	0.0111967	0.0009
Riverside	2023	Annual	LDT1	DSL	Aggregated	65	39.180	0.0004	0.2570578	0.0001
Riverside	2023	Annual	LDT2	DSL	Aggregated	65	1463.535	0.0165	0.0113185	0.0002
Riverside	2023	Annual	LHDT1	DSL	Aggregated	65	20161.772	0.2275	0.0998925	0.0227
Riverside	2023	Annual	LHDT2	DSL	Aggregated	65	7795.761	0.0880	0.0841316	0.0074
Riverside	2023	Annual	MDV	DSL	Aggregated	65	4324.736	0.0488	0.0082200	0.0004
Riverside	2023	Annual	MH	DSL	Aggregated	65	2591.606	0.0292	0.0774660	0.0023
Riverside	2023	Annual	MHDT	DSL	Aggregated	65	15610.045	0.1762	0.0525548	0.0093
Riverside	2023	Annual	HHDT	DSL	Aggregated	65	27819.820	0.3139	0.0424097	0.0133
Riverside	2023	Annual	OBUS	DSL	Aggregated	65	351.644	0.0040	0.0563933	0.0002
Riverside	2023	Annual	SBUS	DSL	Aggregated	65	1154.013	0.0130	0.0566417	0.0007
Riverside	2023	Annual	UBUS	DSL	Aggregated	65	1.106	0.0000	0.0166242	0.0000
							88614	1.0		0.058

EMFAC2017 Emission Rates
Region Type: County
Region: Riverside (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX_AVE (gms/mile)
Riverside	2023	Annual	LDA	DSL	Aggregated	65	7300.591	0.0824	0.0064704	0.0005
Riverside	2023	Annual	LDT1	DSL	Aggregated	65	39.180	0.0004	0.1753101	0.0001
Riverside	2023	Annual	LDT2	DSL	Aggregated	65	1463.535	0.0165	0.0053842	0.0001
Riverside	2023	Annual	LHDT1	DSL	Aggregated	65	20161.772	0.2275	0.0206163	0.0047
Riverside	2023	Annual	LHDT2	DSL	Aggregated	65	7795.761	0.0880	0.0190892	0.0017
Riverside	2023	Annual	MDV	DSL	Aggregated	65	4324.736	0.0488	0.0044330	0.0002
Riverside	2023	Annual	MH	DSL	Aggregated	65	2591.606	0.0292	0.0170975	0.0050
Riverside	2023	Annual	MHDT	DSL	Aggregated	65	15610.045	0.1762	0.0585680	0.0103
Riverside	2023	Annual	HHDT	DSL	Aggregated	65	27819.820	0.3139	0.0422517	0.0133
Riverside	2023	Annual	OBUS	DSL	Aggregated	65	351.644	0.0040	0.0420193	0.0002
Riverside	2023	Annual	SBUS	DSL	Aggregated	65	1154.013	0.0130	0.0303655	0.0004
Riverside	2023	Annual	UBUS	DSL	Aggregated	65	1.106	0.0000	0.0135842	0.0000
							88614	1.0		0.036

On-Road Mobile Sources
Emission Rate Computation

I-215/SR-60 Freeway

CO Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	7792
Pollutant Mass Emission Rate (gr/mi)	1.191

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Pollutant Emission Rate (gr/sec)	1.89214
Pollutant Emission Rate (gr/sec/source)	7.28E-02

On-Road Mobile Sources
Emission Rate Computation

I-215/SR-60 Freeway

NOx Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	7792
Pollutant Mass Emission Rate (gr/mi)	0.221

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Pollutant Emission Rate (gr/sec)	0.35171
Pollutant Emission Rate (gr/sec/source)	1.35E-02

On-Road Mobile Sources
Emission Rate Computation

I-215/SR-60 Freeway

PM10 Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	7792
Particle Size Multiplier (g/mi)	1.0
Road Surface Silt Loading (g/m ²)	0.02
Average Vehicle Weight (tons)	2.4
Emfac2017 Emissions Run (g/mi)	0.0055
Emfac2017 Emissions TW/BW (g/mi)	0.047
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.122

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x

$$\text{(Road Surface Silt Loading)}^{0.91} \times \text{(Gross Vehicle Weight)}^{1.02} \text{) + (Emfac2014 Emissions)}$$

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.193726
PM10 Reentrainment Emission Rate (gr/sec/source)	7.45E-03

On-Road Mobile Sources
Emission Rate Computation

I-215/SR-60 Freeway

PM2.5 Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	6333
Particle Size Multiplier (g/mi)	0.25
Road Surface Silt Loading (g/m ²)	0.02
Average Vehicle Weight (tons)	2.4
Emfac2017 Emissions Run (g/mi)	0.0052
Emfac2017 Emissions TW/BW (g/mi)	0.019
PM2.5 Reentrainment Mass Emission Rate (gr/mi)	0.042

For PM2.5 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM2.5 Base Emission Factor) x (Road Surface Silt Loading)^{0.91} x (Gross Vehicle Weight)^{1.02}) + (Emfac2014 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM2.5 Reentrainment Emission Rate (gr/sec)	0.053663
PM2.5 Reentrainment Emission Rate (gr/sec/source)	2.06E-03

On-Road Mobile Sources
Emission Rate Computation

I-215/SR-60 Freeway

TOG GAS Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	6085
Pollutant Mass Emission Rate (gr/mi)	0.003863

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Pollutant Emission Rate (gr/sec)	0.00479
Pollutant Emission Rate (gr/sec/source)	1.84E-04

On-Road Mobile Sources
Emission Rate Computation

I-215/SR-60 Freeway

TOG DSL Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	248
Pollutant Mass Emission Rate (gr/mi)	0.014069

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Pollutant Emission Rate (gr/sec)	0.00071
Pollutant Emission Rate (gr/sec/source)	2.74E-05

On-Road Mobile Sources
Emission Rate Computation

I-215/SR-60 Freeway

DSL Particulate Emissions

Number of Sources	26
Link Length (meters)	1181
Volume/Baseline (VPH)	248
Pollutant Mass Emission Rate (gr/mi)	0.036

$$Emission\ Rate\ (gr/sec) = ((Mass\ Emission\ Rate\ x\ Volume/Baseline)/(1609.3\ m/mile) \times (3600\ sec/hr)) \times (Link\ Length)$$

Pollutant Emission Rate (gr/sec)	0.00184	
Pollutant Emission Rate (gr/sec/source)	<table border="1"><tr><td>7.09E-05</td></tr></table>	7.09E-05
7.09E-05		

All
DSL

1492740
58533

Diesel Fleet Mix (weight fraction)

0.0392

Link Counts

AADT

VPH
all

VPH
gas

VPH
diesel

I-15 Freeway

152000

6333

6085

248

APPENDIX 4.1:
AERMOD MODEL INPUT/OUTPUT FILE

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```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ADI
**
*****
**
**
*****
** AERMOD CONTROL PATHWAY
*****
**
**
CO STARTING
  TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 2189641
  POLLUTID CO
  RUNORNOT RUN
  ERRORFIL CO.ERR
CO FINISHED
**
*****
** AERMOD SOURCE PATHWAY
*****
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** -----
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.89214
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40
** -----

```

LOCATION	L0000001	VOLUME	449288.571	3758396.923	188.77
LOCATION	L0000002	VOLUME	449288.969	3758442.921	189.29
LOCATION	L0000003	VOLUME	449289.367	3758488.920	189.82
LOCATION	L0000004	VOLUME	449289.765	3758534.918	190.34
LOCATION	L0000005	VOLUME	449290.163	3758580.916	190.86
LOCATION	L0000006	VOLUME	449290.561	3758626.914	191.38
LOCATION	L0000007	VOLUME	449290.958	3758672.913	191.91
LOCATION	L0000008	VOLUME	449291.356	3758718.911	192.43
LOCATION	L0000009	VOLUME	449291.754	3758764.909	192.95
LOCATION	L0000010	VOLUME	449292.152	3758810.908	193.47
LOCATION	L0000011	VOLUME	449292.550	3758856.906	194.00
LOCATION	L0000012	VOLUME	449292.948	3758902.904	194.52
LOCATION	L0000013	VOLUME	449293.346	3758948.902	195.04
LOCATION	L0000014	VOLUME	449293.744	3758994.901	195.56
LOCATION	L0000015	VOLUME	449294.142	3759040.899	196.09
LOCATION	L0000016	VOLUME	449294.540	3759086.897	196.61
LOCATION	L0000017	VOLUME	449294.938	3759132.895	197.13
LOCATION	L0000018	VOLUME	449295.335	3759178.894	197.65
LOCATION	L0000019	VOLUME	449295.733	3759224.892	198.18
LOCATION	L0000020	VOLUME	449296.131	3759270.890	198.70
LOCATION	L0000021	VOLUME	449296.529	3759316.889	199.22
LOCATION	L0000022	VOLUME	449296.927	3759362.887	199.74
LOCATION	L0000023	VOLUME	449297.325	3759408.885	200.27
LOCATION	L0000024	VOLUME	449297.723	3759454.883	200.79
LOCATION	L0000025	VOLUME	449298.121	3759500.882	201.31
LOCATION	L0000026	VOLUME	449298.519	3759546.880	201.83

** END OF LINE VOLUME SOURCE ID = SLINE1

** SOURCE PARAMETERS **

** LINE VOLUME SOURCE ID = SLINE1

SRCPARAM	L0000001	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000002	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000003	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000004	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000005	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000006	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000007	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000008	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000009	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000010	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000011	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000012	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000013	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000014	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000015	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000016	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000017	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000018	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000019	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000020	0.0727746154	3.49	21.40	3.25
SRCPARAM	L0000021	0.0727746154	3.49	21.40	3.25

SRCPARAM L000022	0.0727746154	3.49	21.40	3.25
SRCPARAM L000023	0.0727746154	3.49	21.40	3.25
SRCPARAM L000024	0.0727746154	3.49	21.40	3.25
SRCPARAM L000025	0.0727746154	3.49	21.40	3.25
SRCPARAM L000026	0.0727746154	3.49	21.40	3.25

** -----

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD RECEPTOR PATHWAY

**

**

RE STARTING
INCLUDED CO.ROU

RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

**

ME STARTING
SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL
SURFDATA 3171 2012
UAIRDATA 3190 2012
PROFBASE 245.0 METERS

ME FINISHED

**

** AERMOD OUTPUT PATHWAY

**

**

OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST

** AUTO-GENERATED PLOTFILES

PLOTFILE 1 ALL 1ST CO.AD\01H1GALL.PLT 31
PLOTFILE 8 ALL 1ST CO.AD\08H1GALL.PLT 32
SUMMFILE CO.SUM

OU FINISHED

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

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

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

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; 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: CO**

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

****This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s)**

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 26 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 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 Highest Short Term Values by Receptor (RECTABLE
Keyword)

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

****Misc. Inputs:** Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: CO.ERR

**File for Summary of Results: CO.SUM

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

Table with columns: INIT. URBAN SOURCE, NUMBER EMISSION RATE, BASE ELEV., RELEASE HEIGHT, INIT. SY. Rows include source IDs L0000001 through L0000009 with associated emission rates and coordinates.

3.25	YES							
L0000010		0	0.72775E-01	449292.2	3758810.9	193.5	3.49	21.40
3.25	YES							
L0000011		0	0.72775E-01	449292.5	3758856.9	194.0	3.49	21.40
3.25	YES							
L0000012		0	0.72775E-01	449292.9	3758902.9	194.5	3.49	21.40
3.25	YES							
L0000013		0	0.72775E-01	449293.3	3758948.9	195.0	3.49	21.40
3.25	YES							
L0000014		0	0.72775E-01	449293.7	3758994.9	195.6	3.49	21.40
3.25	YES							
L0000015		0	0.72775E-01	449294.1	3759040.9	196.1	3.49	21.40
3.25	YES							
L0000016		0	0.72775E-01	449294.5	3759086.9	196.6	3.49	21.40
3.25	YES							
L0000017		0	0.72775E-01	449294.9	3759132.9	197.1	3.49	21.40
3.25	YES							
L0000018		0	0.72775E-01	449295.3	3759178.9	197.7	3.49	21.40
3.25	YES							
L0000019		0	0.72775E-01	449295.7	3759224.9	198.2	3.49	21.40
3.25	YES							
L0000020		0	0.72775E-01	449296.1	3759270.9	198.7	3.49	21.40
3.25	YES							
L0000021		0	0.72775E-01	449296.5	3759316.9	199.2	3.49	21.40
3.25	YES							
L0000022		0	0.72775E-01	449296.9	3759362.9	199.7	3.49	21.40
3.25	YES							
L0000023		0	0.72775E-01	449297.3	3759408.9	200.3	3.49	21.40
3.25	YES							
L0000024		0	0.72775E-01	449297.7	3759454.9	200.8	3.49	21.40
3.25	YES							
L0000025		0	0.72775E-01	449298.1	3759500.9	201.3	3.49	21.40
3.25	YES							
L0000026		0	0.72775E-01	449298.5	3759546.9	201.8	3.49	21.40

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

ALL L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
 L0000006 , L0000007 , L0000008 ,
 L0000014 L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
 , L0000015 , L0000016 ,
 L0000022 L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
 , L0000023 , L0000024 ,

L0000025 , L0000026 ,
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0000005	2189641.	L0000001 , L0000002 , L0000003 , L0000004 ,
L0000008	, L0000006	, L0000007 ,
	,	
L0000014	L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,	
	, L0000015 , L0000016 ,	
L0000022	L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,	
	, L0000023 , L0000024 ,	

L0000025 , L0000026 ,
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449368.0, 3758763.5, 192.6, 195.0, 0.0); (449371.9,
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(449375.8, 3758763.5, 191.8, 195.0, 0.0); (449379.6,
3758763.5, 191.4, 195.0, 0.0);
(449383.5, 3758763.5, 191.2, 195.0, 0.0); (449387.4,
3758763.5, 190.9, 195.0, 0.0);
(449391.2, 3758763.5, 190.6, 190.6, 0.0); (449395.1,
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(449422.2, 3758763.5, 189.0, 189.0, 0.0); (449426.1,
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(449379.6, 3758805.6, 192.0, 192.0, 0.0); (449383.5,
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(449441.5, 3758805.6, 188.9, 188.9, 0.0); (449445.4,
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(449383.5, 3758819.7, 191.7, 191.7, 0.0); (449387.4,
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(METERS)

(449391.2, 3758819.7, 191.2, 191.2, 0.0); (449395.1, 3758819.7, 191.0, 191.0, 0.0);
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(449406.7, 3758819.7, 190.2, 190.2, 0.0); (449410.6, 3758819.7, 190.0, 190.0, 0.0);
(449414.5, 3758819.7, 189.8, 189.8, 0.0); (449418.3, 3758819.7, 189.7, 189.7, 0.0);
(449422.2, 3758819.7, 189.6, 189.6, 0.0); (449426.1, 3758819.7, 189.5, 189.5, 0.0);
(449429.9, 3758819.7, 189.3, 189.3, 0.0); (449433.8, 3758819.7, 189.2, 189.2, 0.0);
(449437.7, 3758819.7, 189.1, 189.1, 0.0); (449441.5, 3758819.7, 188.9, 188.9, 0.0);
(449445.4, 3758819.7, 188.8, 188.8, 0.0); (449368.0, 3758833.7, 192.8, 192.8, 0.0);
(449371.9, 3758833.7, 192.5, 192.5, 0.0); (449375.8, 3758833.7, 192.2, 192.2, 0.0);
(449379.6, 3758833.7, 192.0, 192.0, 0.0); (449383.5, 3758833.7, 191.7, 191.7, 0.0);
(449387.4, 3758833.7, 191.5, 191.5, 0.0); (449391.2, 3758833.7, 191.2, 191.2, 0.0);
(449395.1, 3758833.7, 191.0, 191.0, 0.0); (449399.0, 3758833.7, 190.7, 190.7, 0.0);
(449402.8, 3758833.7, 190.4, 190.4, 0.0); (449406.7, 3758833.7, 190.2, 190.2, 0.0);
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(449441.5, 3758833.7, 188.9, 188.9, 0.0); (449445.4, 3758833.7, 188.8, 188.8, 0.0);
(449368.0, 3758847.8, 193.4, 193.4, 0.0); (449371.9, 3758847.8, 193.2, 193.2, 0.0);
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(449391.2, 3758847.8, 192.0, 192.0, 0.0); (449395.1, 3758847.8, 191.7, 191.7, 0.0);
(449399.0, 3758847.8, 191.5, 191.5, 0.0); (449402.8, 3758847.8, 191.2, 191.2, 0.0);
(449406.7, 3758847.8, 191.0, 191.0, 0.0); (449410.6, 3758847.8, 190.7, 190.7, 0.0);

```

( 449414.5, 3758847.8, 190.5, 190.5, 0.0); ( 449418.3,
3758847.8, 190.4, 190.4, 0.0);
( 449422.2, 3758847.8, 190.2, 190.2, 0.0); ( 449426.1,
3758847.8, 190.0, 190.0, 0.0);
( 449429.9, 3758847.8, 189.8, 189.8, 0.0); ( 449433.8,
3758847.8, 189.6, 189.6, 0.0);
( 449437.7, 3758847.8, 189.5, 189.5, 0.0); ( 449441.5,
3758847.8, 189.3, 189.3, 0.0);
( 449445.4, 3758847.8, 189.2, 189.2, 0.0); ( 449368.0,
3758861.8, 194.1, 194.1, 0.0);
( 449371.9, 3758861.8, 194.0, 194.0, 0.0); ( 449375.8,
3758861.8, 193.8, 193.8, 0.0);
( 449379.6, 3758861.8, 193.7, 193.7, 0.0); ( 449383.5,
3758861.8, 193.4, 193.4, 0.0);
( 449387.4, 3758861.8, 193.2, 193.2, 0.0); ( 449391.2,
3758861.8, 192.9, 192.9, 0.0);
( 449395.1, 3758861.8, 192.7, 192.7, 0.0); ( 449399.0,
3758861.8, 192.4, 192.4, 0.0);
( 449402.8, 3758861.8, 192.1, 192.1, 0.0); ( 449406.7,
3758861.8, 191.9, 191.9, 0.0);
( 449410.6, 3758861.8, 191.6, 191.6, 0.0); ( 449414.5,
3758861.8, 191.4, 191.4, 0.0);
( 449418.3, 3758861.8, 191.2, 191.2, 0.0); ( 449422.2,
3758861.8, 190.9, 190.9, 0.0);
( 449426.1, 3758861.8, 190.7, 190.7, 0.0); ( 449429.9,
3758861.8, 190.4, 190.4, 0.0);
( 449433.8, 3758861.8, 190.2, 190.2, 0.0); ( 449437.7,
3758861.8, 190.0, 190.0, 0.0);
( 449441.5, 3758861.8, 189.8, 189.8, 0.0); ( 449445.4,
3758861.8, 189.7, 189.7, 0.0);
( 449368.0, 3758875.8, 194.7, 194.7, 0.0); ( 449371.9,
3758875.8, 194.6, 194.6, 0.0);
( 449375.8, 3758875.8, 194.4, 194.4, 0.0); ( 449379.6,
3758875.8, 194.3, 194.3, 0.0);
( 449383.5, 3758875.8, 194.1, 194.1, 0.0); ( 449387.4,
3758875.8, 193.8, 193.8, 0.0);
( 449391.2, 3758875.8, 193.5, 193.5, 0.0); ( 449395.1,
3758875.8, 193.3, 193.3, 0.0);
( 449399.0, 3758875.8, 193.0, 193.0, 0.0); ( 449402.8,
3758875.8, 192.8, 192.8, 0.0);
( 449406.7, 3758875.8, 192.5, 192.5, 0.0); ( 449410.6,
3758875.8, 192.2, 192.2, 0.0);

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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 12:18:15

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

(449414.5, 3758875.8, 192.0, 192.0, 0.0);	(449418.3, 3758875.8, 191.7, 191.7, 0.0);
(449422.2, 3758875.8, 191.5, 191.5, 0.0);	(449426.1, 3758875.8, 191.2, 191.2, 0.0);
(449429.9, 3758875.8, 191.0, 191.0, 0.0);	(449433.8, 3758875.8, 190.7, 190.7, 0.0);
(449437.7, 3758875.8, 190.4, 190.4, 0.0);	(449441.5, 3758875.8, 190.2, 190.2, 0.0);
(449445.4, 3758875.8, 190.1, 190.1, 0.0);	(449368.0, 3758889.9, 195.2, 195.2, 0.0);
(449371.9, 3758889.9, 195.0, 195.0, 0.0);	(449375.8, 3758889.9, 194.9, 194.9, 0.0);
(449379.6, 3758889.9, 194.8, 194.8, 0.0);	(449383.5, 3758889.9, 194.5, 194.5, 0.0);
(449387.4, 3758889.9, 194.3, 194.3, 0.0);	(449391.2, 3758889.9, 194.0, 194.0, 0.0);
(449395.1, 3758889.9, 193.7, 193.7, 0.0);	(449399.0, 3758889.9, 193.5, 193.5, 0.0);
(449402.8, 3758889.9, 193.2, 193.2, 0.0);	(449406.7, 3758889.9, 193.0, 193.0, 0.0);
(449410.6, 3758889.9, 192.7, 192.7, 0.0);	(449414.5, 3758889.9, 192.5, 192.5, 0.0);
(449418.3, 3758889.9, 192.2, 192.2, 0.0);	(449422.2, 3758889.9, 191.9, 191.9, 0.0);
(449426.1, 3758889.9, 191.7, 191.7, 0.0);	(449429.9, 3758889.9, 191.4, 191.4, 0.0);
(449433.8, 3758889.9, 191.2, 191.2, 0.0);	(449437.7, 3758889.9, 190.9, 190.9, 0.0);
(449441.5, 3758889.9, 190.7, 190.7, 0.0);	(449445.4, 3758889.9, 190.6, 190.6, 0.0);
(449368.0, 3758903.9, 195.8, 195.8, 0.0);	(449371.9, 3758903.9, 195.7, 195.7, 0.0);
(449375.8, 3758903.9, 195.6, 195.6, 0.0);	(449379.6, 3758903.9, 195.5, 195.5, 0.0);
(449383.5, 3758903.9, 195.2, 195.2, 0.0);	(449387.4, 3758903.9, 195.0, 195.0, 0.0);
(449391.2, 3758903.9, 194.7, 194.7, 0.0);	(449395.1, 3758903.9, 194.5, 194.5, 0.0);
(449399.0, 3758903.9, 194.2, 194.2, 0.0);	(449402.8, 3758903.9, 194.0, 194.0, 0.0);
(449406.7, 3758903.9, 193.7, 193.7, 0.0);	(449410.6, 3758903.9, 193.4, 193.4, 0.0);
(449414.5, 3758903.9, 193.1, 193.1, 0.0);	(449418.3, 3758903.9, 192.8, 192.8, 0.0);
(449422.2, 3758903.9, 192.6, 192.6, 0.0);	(449426.1, 3758903.9, 192.3, 192.3, 0.0);

(449429.9, 3758903.9, 192.0, 192.0, 0.0); (449433.8,
3758903.9, 191.7, 195.0, 0.0);
(449437.7, 3758903.9, 191.4, 195.0, 0.0); (449441.5,
3758903.9, 191.2, 191.2, 0.0);
(449445.4, 3758903.9, 191.1, 191.1, 0.0); (449368.0,
3758918.0, 196.6, 196.6, 0.0);
(449371.9, 3758918.0, 196.5, 196.5, 0.0); (449375.8,
3758918.0, 196.5, 196.5, 0.0);
(449379.6, 3758918.0, 196.4, 196.4, 0.0); (449383.5,
3758918.0, 196.2, 196.2, 0.0);
(449387.4, 3758918.0, 195.9, 195.9, 0.0); (449391.2,
3758918.0, 195.7, 195.7, 0.0);
(449395.1, 3758918.0, 195.4, 195.4, 0.0); (449399.0,
3758918.0, 195.1, 195.1, 0.0);
(449402.8, 3758918.0, 194.9, 194.9, 0.0); (449406.7,
3758918.0, 194.6, 194.6, 0.0);
(449410.6, 3758918.0, 194.3, 194.3, 0.0); (449414.5,
3758918.0, 194.0, 195.0, 0.0);
(449418.3, 3758918.0, 193.6, 195.0, 0.0); (449422.2,
3758918.0, 193.3, 195.0, 0.0);
(449426.1, 3758918.0, 192.9, 195.0, 0.0); (449429.9,
3758918.0, 192.6, 195.0, 0.0);
(449433.8, 3758918.0, 192.2, 195.0, 0.0); (449437.7,
3758918.0, 191.9, 195.0, 0.0);
(449441.5, 3758918.0, 191.7, 195.0, 0.0); (449445.4,
3758918.0, 191.5, 191.5, 0.0);
(449368.0, 3758932.0, 197.2, 197.2, 0.0); (449371.9,
3758932.0, 197.2, 197.2, 0.0);
(449375.8, 3758932.0, 197.2, 197.2, 0.0); (449379.6,
3758932.0, 197.2, 197.2, 0.0);
(449383.5, 3758932.0, 196.9, 196.9, 0.0); (449387.4,
3758932.0, 196.7, 196.7, 0.0);
(449391.2, 3758932.0, 196.4, 196.4, 0.0); (449395.1,
3758932.0, 196.2, 196.2, 0.0);
(449399.0, 3758932.0, 195.9, 195.9, 0.0); (449402.8,
3758932.0, 195.6, 195.6, 0.0);
(449406.7, 3758932.0, 195.4, 195.4, 0.0); (449410.6,
3758932.0, 195.1, 195.1, 0.0);
(449414.5, 3758932.0, 194.7, 194.7, 0.0); (449418.3,
3758932.0, 194.3, 194.3, 0.0);
(449422.2, 3758932.0, 193.9, 193.9, 0.0); (449426.1,
3758932.0, 193.5, 193.5, 0.0);
(449429.9, 3758932.0, 193.1, 193.1, 0.0); (449433.8,
3758932.0, 192.8, 192.8, 0.0);

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 12:18:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(449437.7, 3758932.0, 192.4, 192.4, 0.0);	(449441.5, 3758932.0, 192.1, 192.1, 0.0);
(449445.4, 3758932.0, 192.0, 192.0, 0.0);	(449368.0, 3758946.0, 197.7, 197.7, 0.0);
(449371.9, 3758946.0, 197.7, 197.7, 0.0);	(449375.8, 3758946.0, 197.7, 197.7, 0.0);
(449379.6, 3758946.0, 197.7, 197.7, 0.0);	(449383.5, 3758946.0, 197.4, 197.4, 0.0);
(449387.4, 3758946.0, 197.1, 197.1, 0.0);	(449391.2, 3758946.0, 196.9, 196.9, 0.0);
(449395.1, 3758946.0, 196.6, 196.6, 0.0);	(449399.0, 3758946.0, 196.4, 196.4, 0.0);
(449402.8, 3758946.0, 196.1, 196.1, 0.0);	(449406.7, 3758946.0, 195.8, 195.8, 0.0);
(449410.6, 3758946.0, 195.5, 195.5, 0.0);	(449414.5, 3758946.0, 195.2, 195.2, 0.0);
(449418.3, 3758946.0, 194.8, 194.8, 0.0);	(449422.2, 3758946.0, 194.4, 194.4, 0.0);
(449426.1, 3758946.0, 194.0, 196.0, 0.0);	(449429.9, 3758946.0, 193.6, 196.0, 0.0);
(449433.8, 3758946.0, 193.2, 196.0, 0.0);	(449437.7, 3758946.0, 192.8, 196.0, 0.0);
(449441.5, 3758946.0, 192.5, 196.0, 0.0);	(449445.4, 3758946.0, 192.3, 192.3, 0.0);
(449368.0, 3758960.1, 198.0, 198.0, 0.0);	(449371.9, 3758960.1, 198.0, 198.0, 0.0);
(449375.8, 3758960.1, 198.0, 198.0, 0.0);	(449379.6, 3758960.1, 198.0, 198.0, 0.0);
(449383.5, 3758960.1, 197.8, 197.8, 0.0);	(449387.4, 3758960.1, 197.5, 197.5, 0.0);
(449391.2, 3758960.1, 197.3, 197.3, 0.0);	(449395.1, 3758960.1, 197.0, 197.0, 0.0);
(449399.0, 3758960.1, 196.8, 196.8, 0.0);	(449402.8, 3758960.1, 196.5, 196.5, 0.0);
(449406.7, 3758960.1, 196.3, 196.3, 0.0);	(449410.6, 3758960.1, 196.0, 196.0, 0.0);
(449414.5, 3758960.1, 195.6, 195.6, 0.0);	(449418.3, 3758960.1, 195.2, 195.2, 0.0);
(449422.2, 3758960.1, 194.9, 194.9, 0.0);	(449426.1, 3758960.1, 194.5, 194.5, 0.0);
(449429.9, 3758960.1, 194.1, 194.1, 0.0);	(449433.8, 3758960.1, 193.7, 193.7, 0.0);
(449437.7, 3758960.1, 193.3, 193.3, 0.0);	(449441.5, 3758960.1, 193.0, 193.0, 0.0);

(449445.4, 3758960.1, 192.7, 192.7, 0.0); (449368.0,
3758974.1, 198.0, 198.0, 0.0);
(449371.9, 3758974.1, 198.0, 198.0, 0.0); (449375.8,
3758974.1, 198.0, 198.0, 0.0);
(449379.6, 3758974.1, 198.0, 198.0, 0.0); (449383.5,
3758974.1, 197.8, 197.8, 0.0);
(449387.4, 3758974.1, 197.6, 197.6, 0.0); (449391.2,
3758974.1, 197.5, 197.5, 0.0);
(449395.1, 3758974.1, 197.3, 197.3, 0.0); (449399.0,
3758974.1, 197.1, 197.1, 0.0);
(449402.8, 3758974.1, 196.9, 196.9, 0.0); (449406.7,
3758974.1, 196.7, 196.7, 0.0);
(449410.6, 3758974.1, 196.5, 196.5, 0.0); (449414.5,
3758974.1, 196.1, 196.1, 0.0);
(449418.3, 3758974.1, 195.7, 195.7, 0.0); (449422.2,
3758974.1, 195.3, 195.3, 0.0);
(449426.1, 3758974.1, 194.9, 197.0, 0.0); (449429.9,
3758974.1, 194.5, 197.0, 0.0);
(449433.8, 3758974.1, 194.2, 197.0, 0.0); (449437.7,
3758974.1, 193.8, 197.0, 0.0);
(449441.5, 3758974.1, 193.4, 197.0, 0.0); (449445.4,
3758974.1, 193.1, 197.0, 0.0);
(449368.0, 3758988.2, 198.1, 198.1, 0.0); (449371.9,
3758988.2, 198.1, 198.1, 0.0);
(449375.8, 3758988.2, 198.1, 198.1, 0.0); (449379.6,
3758988.2, 198.1, 198.1, 0.0);
(449383.5, 3758988.2, 197.9, 197.9, 0.0); (449387.4,
3758988.2, 197.8, 197.8, 0.0);
(449391.2, 3758988.2, 197.6, 197.6, 0.0); (449395.1,
3758988.2, 197.5, 197.5, 0.0);
(449399.0, 3758988.2, 197.4, 197.4, 0.0); (449402.8,
3758988.2, 197.2, 197.2, 0.0);
(449406.7, 3758988.2, 197.1, 197.1, 0.0); (449410.6,
3758988.2, 196.9, 196.9, 0.0);
(449414.5, 3758988.2, 196.5, 196.5, 0.0); (449418.3,
3758988.2, 196.1, 196.1, 0.0);
(449422.2, 3758988.2, 195.8, 195.8, 0.0); (449426.1,
3758988.2, 195.4, 195.4, 0.0);
(449429.9, 3758988.2, 195.0, 195.0, 0.0); (449433.8,
3758988.2, 194.6, 194.6, 0.0);
(449437.7, 3758988.2, 194.2, 194.2, 0.0); (449441.5,
3758988.2, 193.9, 193.9, 0.0);
(449445.4, 3758988.2, 193.5, 193.5, 0.0); (449368.0,
3759002.2, 198.5, 198.5, 0.0);
(449371.9, 3759002.2, 198.5, 198.5, 0.0); (449375.8,
3759002.2, 198.5, 198.5, 0.0);

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
*** 11/11/21

*** AERMET - VERSION 16216 *** ***
*** 12:18:15

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449379.6, 3759002.2, 198.5, 198.5, 0.0);	(449383.5,
3759002.2, 198.3, 198.3, 0.0);	
(449387.4, 3759002.2, 198.1, 198.1, 0.0);	(449391.2,
3759002.2, 197.9, 197.9, 0.0);	
(449395.1, 3759002.2, 197.7, 197.7, 0.0);	(449399.0,
3759002.2, 197.5, 197.5, 0.0);	
(449402.8, 3759002.2, 197.3, 197.3, 0.0);	(449406.7,
3759002.2, 197.1, 197.1, 0.0);	
(449410.6, 3759002.2, 196.9, 196.9, 0.0);	(449414.5,
3759002.2, 196.6, 196.6, 0.0);	
(449418.3, 3759002.2, 196.3, 196.3, 0.0);	(449422.2,
3759002.2, 196.0, 196.0, 0.0);	
(449426.1, 3759002.2, 195.6, 195.6, 0.0);	(449429.9,
3759002.2, 195.3, 195.3, 0.0);	
(449433.8, 3759002.2, 195.0, 195.0, 0.0);	(449437.7,
3759002.2, 194.7, 194.7, 0.0);	
(449441.5, 3759002.2, 194.3, 194.3, 0.0);	(449445.4,
3759002.2, 193.9, 193.9, 0.0);	
(449368.0, 3759016.2, 199.0, 199.0, 0.0);	(449371.9,
3759016.2, 199.0, 199.0, 0.0);	
(449375.8, 3759016.2, 199.0, 199.0, 0.0);	(449379.6,
3759016.2, 199.0, 199.0, 0.0);	
(449383.5, 3759016.2, 198.7, 198.7, 0.0);	(449387.4,
3759016.2, 198.5, 198.5, 0.0);	
(449391.2, 3759016.2, 198.2, 198.2, 0.0);	(449395.1,
3759016.2, 198.0, 198.0, 0.0);	
(449399.0, 3759016.2, 197.7, 197.7, 0.0);	(449402.8,
3759016.2, 197.4, 197.4, 0.0);	
(449406.7, 3759016.2, 197.2, 197.2, 0.0);	(449410.6,
3759016.2, 196.9, 196.9, 0.0);	
(449414.5, 3759016.2, 196.7, 196.7, 0.0);	(449418.3,
3759016.2, 196.4, 196.4, 0.0);	
(449422.2, 3759016.2, 196.2, 196.2, 0.0);	(449426.1,
3759016.2, 195.9, 195.9, 0.0);	
(449429.9, 3759016.2, 195.6, 195.6, 0.0);	(449433.8,
3759016.2, 195.4, 195.4, 0.0);	
(449437.7, 3759016.2, 195.1, 195.1, 0.0);	(449441.5,
3759016.2, 194.8, 195.0, 0.0);	
(449445.4, 3759016.2, 194.4, 195.0, 0.0);	(449368.0,
3759030.3, 198.5, 198.5, 0.0);	
(449371.9, 3759030.3, 198.5, 198.5, 0.0);	(449375.8,
3759030.3, 198.5, 198.5, 0.0);	

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( 449379.6, 3759030.3, 198.5, 198.5, 0.0); ( 449383.5,
3759030.3, 198.3, 198.3, 0.0);
( 449387.4, 3759030.3, 198.0, 198.0, 0.0); ( 449391.2,
3759030.3, 197.8, 197.8, 0.0);
( 449395.1, 3759030.3, 197.5, 197.5, 0.0); ( 449399.0,
3759030.3, 197.2, 197.2, 0.0);
( 449402.8, 3759030.3, 197.0, 197.0, 0.0); ( 449406.7,
3759030.3, 196.7, 196.7, 0.0);
( 449410.6, 3759030.3, 196.5, 196.5, 0.0); ( 449414.5,
3759030.3, 196.3, 196.3, 0.0);
( 449418.3, 3759030.3, 196.1, 196.1, 0.0); ( 449422.2,
3759030.3, 195.9, 195.9, 0.0);
( 449426.1, 3759030.3, 195.7, 195.7, 0.0); ( 449429.9,
3759030.3, 195.5, 195.5, 0.0);
( 449433.8, 3759030.3, 195.3, 195.3, 0.0); ( 449437.7,
3759030.3, 195.1, 195.1, 0.0);
( 449441.5, 3759030.3, 194.8, 194.8, 0.0); ( 449445.4,
3759030.3, 194.4, 194.4, 0.0);
( 449368.0, 3759044.3, 198.1, 198.1, 0.0); ( 449371.9,
3759044.3, 198.1, 198.1, 0.0);
( 449375.8, 3759044.3, 198.1, 198.1, 0.0); ( 449379.6,
3759044.3, 198.1, 198.1, 0.0);
( 449383.5, 3759044.3, 197.8, 197.8, 0.0); ( 449387.4,
3759044.3, 197.5, 197.5, 0.0);
( 449391.2, 3759044.3, 197.3, 197.3, 0.0); ( 449395.1,
3759044.3, 197.0, 197.0, 0.0);
( 449399.0, 3759044.3, 196.8, 196.8, 0.0); ( 449402.8,
3759044.3, 196.5, 196.5, 0.0);
( 449406.7, 3759044.3, 196.2, 196.2, 0.0); ( 449410.6,
3759044.3, 196.0, 196.0, 0.0);
( 449414.5, 3759044.3, 195.9, 195.9, 0.0); ( 449418.3,
3759044.3, 195.8, 195.8, 0.0);
( 449422.2, 3759044.3, 195.6, 195.6, 0.0); ( 449426.1,
3759044.3, 195.5, 195.5, 0.0);
( 449429.9, 3759044.3, 195.3, 195.3, 0.0); ( 449433.8,
3759044.3, 195.2, 195.2, 0.0);
( 449437.7, 3759044.3, 195.1, 195.1, 0.0); ( 449441.5,
3759044.3, 194.8, 194.8, 0.0);
( 449445.4, 3759044.3, 194.4, 194.4, 0.0);

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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR

PROCESSING ***


```

12 01 01 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 39.8 0.15 2.40
1.00 2.13 78. 10.1 290.4 2.0
12 01 01 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 49.0 0.15 2.40
1.00 2.35 52. 10.1 289.2 2.0
12 01 01 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 37.0 0.15 2.40
1.00 2.06 75. 10.1 288.8 2.0

```

First hour of profile data

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YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
12 01 01 01 10.1 1 55. 2.93 288.2 99.0 -99.00 -99.00

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F indicates top of profile (=1) or below (=0)

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*** AERMET - VERSION 16216 *** ***
*** 12:18:15

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

```

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
-----
449368.02 3758763.53 113.74211 (13112916) 449371.89
3758763.53 107.57085 (13062606)
449375.76 3758763.53 103.18636 (13062606) 449379.63
3758763.53 99.13095 (13062606)
449383.50 3758763.53 95.41590 (13062606) 449387.37
3758763.53 91.96557 (13062606)
449391.24 3758763.53 88.74486 (13062606) 449395.11
3758763.53 85.73398 (13062606)

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449398.98	3758763.53	82.91200	(13062606)	449402.85
3758763.53	80.26130	(13062606)		
449406.72	3758763.53	77.76901	(13062606)	449410.59
3758763.53	75.42720	(13062606)		
449414.46	3758763.53	73.23981	(13062606)	449418.33
3758763.53	71.16881	(13062606)		
449422.20	3758763.53	69.20488	(13062606)	449426.07
3758763.53	67.33964	(13062606)		
449429.94	3758763.53	65.56559	(13062606)	449433.81
3758763.53	63.87593	(13062606)		
449437.68	3758763.53	62.26464	(13062606)	449441.55
3758763.53	60.73690	(13062606)		
449445.42	3758763.53	59.28035	(13062606)	449368.02
3758777.57	113.85977	(13112916)		
449371.89	3758777.57	107.84194	(13062606)	449375.76
3758777.57	103.39916	(13062606)		
449379.63	3758777.57	99.29216	(13062606)	449383.50
3758777.57	95.57230	(13062606)		
449387.37	3758777.57	92.11420	(13062606)	449391.24
3758777.57	88.89413	(13062606)		
449395.11	3758777.57	85.88038	(13062606)	449398.98
3758777.57	83.05627	(13062606)		
449402.85	3758777.57	80.40367	(13062606)	449406.72
3758777.57	77.90693	(13062606)		
449410.59	3758777.57	75.56499	(13062606)	449414.46
3758777.57	73.38291	(13062606)		
449418.33	3758777.57	71.31377	(13062606)	449422.20
3758777.57	69.35138	(13062606)		
449426.07	3758777.57	67.48745	(13062606)	449429.94
3758777.57	65.71449	(13062606)		
449433.81	3758777.57	64.02578	(13062606)	449437.68
3758777.57	62.41526	(13062606)		
449441.55	3758777.57	60.89350	(13062606)	449445.42
3758777.57	59.44908	(13062606)		
449368.02	3758791.61	114.32472	(13112916)	449371.89
3758791.61	108.23141	(13062606)		
449375.76	3758791.61	103.82829	(13062606)	449379.63
3758791.61	99.75586	(13062606)		
449383.50	3758791.61	96.02365	(13062606)	449387.37
3758791.61	92.55403	(13062606)		
449391.24	3758791.61	89.31929	(13062606)	449395.11
3758791.61	86.29886	(13062606)		
449398.98	3758791.61	83.46512	(13062606)	449402.85
3758791.61	80.80347	(13062606)		
449406.72	3758791.61	78.29815	(13062606)	449410.59
3758791.61	75.94754	(13062606)		
449414.46	3758791.61	73.75299	(13062606)	449418.33
3758791.61	71.67516	(13062606)		
449422.20	3758791.61	69.70734	(13062606)	449426.07
3758791.61	67.83567	(13062606)		

449429.94	3758791.61	66.05540	(13062606)	449433.81
3758791.61	64.35976	(13062606)		
449437.68	3758791.61	62.74264	(13062606)	449441.55
3758791.61	61.20519	(13062606)		
449445.42	3758791.61	59.74376	(13062606)	449368.02
3758805.65	114.63354	(13112916)		
449371.89	3758805.65	108.60477	(13062606)	449375.76
3758805.65	104.23014	(13062606)		
449379.63	3758805.65	100.19029	(13062606)	449383.50
3758805.65	96.44602	(13062606)		
449387.37	3758805.65	92.96554	(13062606)	449391.24
3758805.65	89.72049	(13062606)		
449395.11	3758805.65	86.68713	(13062606)	449398.98
3758805.65	83.84756	(13062606)		
449402.85	3758805.65	81.17748	(13062606)	449406.72
3758805.65	78.66414	(13062606)		
449410.59	3758805.65	76.30536	(13062606)	449414.46
3758805.65	74.10185	(13062606)		
449418.33	3758805.65	72.01562	(13062606)	449422.20
3758805.65	70.03728	(13062606)		
449426.07	3758805.65	68.15836	(13062606)	449429.94
3758805.65	66.37363	(13062606)		

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 , L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 , L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 , L000022 , L000023 , L000024 , L000025 , L000026
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

449433.81	3758805.65	64.67141	(13062606)	449437.68
3758805.65	63.04808	(13062606)		
449441.55	3758805.65	61.49810	(13062606)	449445.42
3758805.65	60.01645	(13062606)		
449368.02	3758819.69	114.79449	(13112916)	449371.89
3758819.69	108.87533	(13062606)		
449375.76	3758819.69	104.49299	(13062606)	449379.63
3758819.69	100.44306	(13062606)		
449383.50	3758819.69	96.69021	(13062606)	449387.37
3758819.69	93.20200	(13062606)		
449391.24	3758819.69	89.95018	(13062606)	449395.11
3758819.69	86.91399	(13062606)		
449398.98	3758819.69	84.06575	(13062606)	449402.85
3758819.69	81.39066	(13062606)		
449406.72	3758819.69	78.87277	(13062606)	449410.59
3758819.69	76.51010	(13062606)		
449414.46	3758819.69	74.30361	(13062606)	449418.33
3758819.69	72.21457	(13062606)		
449422.20	3758819.69	70.23353	(13062606)	449426.07
3758819.69	68.35454	(13062606)		
449429.94	3758819.69	66.56487	(13062606)	449433.81
3758819.69	64.86028	(13062606)		
449437.68	3758819.69	63.23465	(13062606)	449441.55
3758819.69	61.68245	(13062606)		
449445.42	3758819.69	60.19864	(13062606)	449368.02
3758833.73	114.99311	(13112916)		
449371.89	3758833.73	109.11714	(13062606)	449375.76
3758833.73	104.72517	(13062606)		
449379.63	3758833.73	100.66636	(13062606)	449383.50
3758833.73	96.90562	(13062606)		
449387.37	3758833.73	93.41039	(13062606)	449391.24
3758833.73	90.15229	(13062606)		
449395.11	3758833.73	87.11060	(13062606)	449398.98
3758833.73	84.25729	(13062606)		
449402.85	3758833.73	81.57762	(13062606)	449406.72
3758833.73	79.05557	(13062606)		
449410.59	3758833.73	76.68943	(13062606)	449414.46
3758833.73	74.48044	(13062606)		
449418.33	3758833.73	72.38901	(13062606)	449422.20
3758833.73	70.40571	(13062606)		
449426.07	3758833.73	68.52461	(13062606)	449429.94
3758833.73	66.73286	(13062606)		
449433.81	3758833.73	65.02626	(13062606)	449437.68
3758833.73	63.39869	(13062606)		
449441.55	3758833.73	61.84461	(13062606)	449445.42
3758833.73	60.35897	(13062606)		
449368.02	3758847.77	116.05456	(13112916)	449371.89
3758847.77	109.70515	(13112916)		
449375.76	3758847.77	105.19405	(13062606)	449379.63

3758847.77 101.13763 (13062606)
 449383.50 3758847.77 97.36540 (13062606) 449387.37
 3758847.77 93.86141 (13062606)
 449391.24 3758847.77 90.59220 (13062606) 449395.11
 3758847.77 87.53616 (13062606)
 449398.98 3758847.77 84.67262 (13062606) 449402.85
 3758847.77 81.98308 (13062606)
 449406.72 3758847.77 79.45449 (13062606) 449410.59
 3758847.77 77.07253 (13062606)
 449414.46 3758847.77 74.83811 (13062606) 449418.33
 3758847.77 72.72580 (13062606)
 449422.20 3758847.77 70.72051 (13062606) 449426.07
 3758847.77 68.81634 (13062606)
 449429.94 3758847.77 67.00557 (13062606) 449433.81
 3758847.77 65.28112 (13062606)
 449437.68 3758847.77 63.63684 (13062606) 449441.55
 3758847.77 62.07352 (13062606)
 449445.42 3758847.77 60.58331 (13062606) 449368.02
 3758861.81 117.35083 (13112916)
 449371.89 3758861.81 111.06559 (13112916) 449375.76
 3758861.81 105.62882 (13062606)
 449379.63 3758861.81 101.58206 (13062606) 449383.50
 3758861.81 97.81016 (13062606)
 449387.37 3758861.81 94.29774 (13062606) 449391.24
 3758861.81 91.02311 (13062606)
 449395.11 3758861.81 87.96207 (13062606) 449398.98
 3758861.81 85.09141 (13062606)
 449402.85 3758861.81 82.39401 (13062606) 449406.72
 3758861.81 79.85505 (13062606)
 449410.59 3758861.81 77.46220 (13062606) 449414.46
 3758861.81 75.20360 (13062606)

^ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:18:15

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 , L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 , L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 , L000022 , L000023 , L000024 , L000025 , L000026
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

		**		** CONC OF CO	IN MICROGRAMS/M**3	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)			X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)				
449418.33	3758861.81	73.06543	(13062606)			449422.20
3758861.81	71.03825	(13062606)				
449426.07	3758861.81	69.11536	(13062606)			449429.94
3758861.81	67.28458	(13062606)				
449433.81	3758861.81	65.54111	(13062606)			449437.68
3758861.81	63.87865	(13062606)				
449441.55	3758861.81	62.30391	(13062606)			449445.42
3758861.81	60.80871	(13062606)				
449368.02	3758875.85	117.84384	(13112916)			449371.89
3758875.85	111.68446	(13112916)				
449375.76	3758875.85	106.01495	(13112916)			449379.63
3758875.85	101.87683	(13062606)				
449383.50	3758875.85	98.11235	(13062606)			449387.37
3758875.85	94.60086	(13062606)				
449391.24	3758875.85	91.32650	(13062606)			449395.11
3758875.85	88.25996	(13062606)				
449398.98	3758875.85	85.38714	(13062606)			449402.85
3758875.85	82.68528	(13062606)				
449406.72	3758875.85	80.14146	(13062606)			449410.59
3758875.85	77.74140	(13062606)				
449414.46	3758875.85	75.47318	(13062606)			449418.33
3758875.85	73.32774	(13062606)				
449422.20	3758875.85	71.29135	(13062606)			449426.07
3758875.85	69.35729	(13062606)				
449429.94	3758875.85	67.51786	(13062606)			449433.81
3758875.85	65.76599	(13062606)				
449437.68	3758875.85	64.09742	(13062606)			449441.55
3758875.85	62.51618	(13062606)				
449445.42	3758875.85	61.01625	(13062606)			449368.02
3758889.89	118.00060	(13112916)				
449371.89	3758889.89	111.81341	(13112916)			449375.76
3758889.89	106.17857	(13112916)				
449379.63	3758889.89	102.11768	(13062606)			449383.50
3758889.89	98.35452	(13062606)				
449387.37	3758889.89	94.84451	(13062606)			449391.24
3758889.89	91.56909	(13062606)				
449395.11	3758889.89	88.50057	(13062606)			449398.98
3758889.89	85.62322	(13062606)				
449402.85	3758889.89	82.91886	(13062606)			449406.72
3758889.89	80.37137	(13062606)				

449410.59	3758889.89	77.96701	(13062606)	449414.46
3758889.89	75.69486	(13062606)		
449418.33	3758889.89	73.54318	(13062606)	449422.20
3758889.89	71.50488	(13062606)		
449426.07	3758889.89	69.56691	(13062606)	449429.94
3758889.89	67.72378	(13062606)		
449433.81	3758889.89	65.96825	(13062606)	449437.68
3758889.89	64.29418	(13062606)		
449441.55	3758889.89	62.71072	(13062606)	449445.42
3758889.89	61.20633	(13062606)		
449368.02	3758903.93	117.68449	(13112916)	449371.89
3758903.93	111.56994	(13112916)		
449375.76	3758903.93	106.37655	(13062606)	449379.63
3758903.93	102.32171	(13062606)		
449383.50	3758903.93	98.56786	(13062606)	449387.37
3758903.93	95.06975	(13062606)		
449391.24	3758903.93	91.80247	(13062606)	449395.11
3758903.93	88.74176	(13062606)		
449398.98	3758903.93	85.86896	(13062606)	449402.85
3758903.93	83.16587	(13062606)		
449406.72	3758903.93	80.61834	(13062606)	449410.59
3758903.93	78.21173	(13062606)		
449414.46	3758903.93	75.93185	(13062606)	449418.33
3758903.93	73.77259	(13062606)		
449422.20	3758903.93	71.72387	(13062606)	449426.07
3758903.93	69.77745	(13062606)		
449429.94	3758903.93	67.92567	(13062606)	449433.81
3758903.93	66.16149	(13062606)		
449437.68	3758903.93	64.47885	(13062606)	449441.55
3758903.93	62.88609	(13062606)		
449445.42	3758903.93	61.37926	(13062606)	449368.02
3758917.97	117.36335	(13112916)		
449371.89	3758917.97	111.21219	(13112916)	449375.76
3758917.97	106.50657	(13062606)		
449379.63	3758917.97	102.45042	(13062606)	449383.50
3758917.97	98.71411	(13062606)		
449387.37	3758917.97	95.22830	(13062606)	449391.24
3758917.97	91.97855	(13062606)		
449395.11	3758917.97	88.93049	(13062606)	449398.98
3758917.97	86.07255	(13062606)		

^ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

**		** CONC OF CO		IN MICROGRAMS/M**3	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)			
449402.85	3758917.97	83.37890	(13062606)	449406.72	3758917.97
3758917.97	80.84215	(13062606)			449410.59
449410.59	3758917.97	78.43914	(13062606)	449414.46	3758917.97
3758917.97	76.15965	(13062606)			449418.33
449418.33	3758917.97	73.99486	(13062606)	449422.20	3758917.97
3758917.97	71.93773	(13062606)			449426.07
449426.07	3758917.97	69.98140	(13062606)	449429.94	3758917.97
3758917.97	68.11664	(13062606)			449433.81
449433.81	3758917.97	66.34059	(13062606)	449437.68	3758917.97
3758917.97	64.64561	(13062606)			449441.55
449441.55	3758917.97	63.04617	(13062606)	449445.42	3758917.97
3758917.97	61.53368	(13062606)			449368.02
449368.02	3758932.01	117.24972	(13112916)	449371.89	3758932.01
3758932.01	111.05936	(13112916)			449375.76
449375.76	3758932.01	106.60948	(13062606)	449379.63	3758932.01
3758932.01	102.54649	(13062606)			449383.50
449383.50	3758932.01	98.81176	(13062606)	449387.37	3758932.01
3758932.01	95.34265	(13062606)			449391.24
449391.24	3758932.01	92.09478	(13062606)	449395.11	3758932.01
3758932.01	89.05935	(13062606)			449398.98
449398.98	3758932.01	86.20470	(13062606)	449402.85	3758932.01
3758932.01	83.52340	(13062606)			449406.72
449406.72	3758932.01	80.99020	(13062606)	449410.59	3758932.01
3758932.01	78.59909	(13062606)			449414.46
449414.46	3758932.01	76.32470	(13062606)	449418.33	3758932.01
3758932.01	74.16127	(13062606)			449422.20
449422.20	3758932.01	72.10451	(13062606)	449426.07	3758932.01
3758932.01	70.14656	(13062606)			449429.94
449429.94	3758932.01	68.27792	(13062606)	449433.81	3758932.01
3758932.01	66.49535	(13062606)			449437.68
449437.68	3758932.01	64.79460	(13062606)	449441.55	

3758932.01	63.18771	(13062606)		
449445.42	3758932.01	61.66703	(13062606)	449368.02
3758946.05	116.79359	(13112916)		
449371.89	3758946.05	111.12846	(13062606)	449375.76
3758946.05	106.71678	(13062606)		
449379.63	3758946.05	102.66927	(13020301)	449383.50
3758946.05	98.92518	(13062606)		
449387.37	3758946.05	95.44744	(13062606)	449391.24
3758946.05	92.20730	(13062606)		
449395.11	3758946.05	89.16686	(13062606)	449398.98
3758946.05	86.31719	(13062606)		
449402.85	3758946.05	83.63287	(13062606)	449406.72
3758946.05	81.10420	(13062606)		
449410.59	3758946.05	78.71227	(13062606)	449414.46
3758946.05	76.44357	(13062606)		
449418.33	3758946.05	74.28573	(13062606)	449422.20
3758946.05	72.23009	(13062606)		
449426.07	3758946.05	70.27410	(13062606)	449429.94
3758946.05	68.40698	(13062606)		
449433.81	3758946.05	66.62432	(13062606)	449437.68
3758946.05	64.92156	(13062606)		
449441.55	3758946.05	63.30822	(13062606)	449445.42
3758946.05	61.77723	(13062606)		
449368.02	3758960.09	117.44271	(13020301)	449371.89
3758960.09	114.00794	(13020301)		
449375.76	3758960.09	110.73061	(13020301)	449379.63
3758960.09	107.54168	(13020301)		
449383.50	3758960.09	99.23220	(13020301)	449387.37
3758960.09	95.59521	(13020301)		
449391.24	3758960.09	92.29933	(13062606)	449395.11
3758960.09	89.25618	(13062606)		
449398.98	3758960.09	86.40708	(13062606)	449402.85
3758960.09	83.72151	(13062606)		
449406.72	3758960.09	81.19432	(13062606)	449410.59
3758960.09	78.80366	(13062606)		
449414.46	3758960.09	76.54037	(13062606)	449418.33
3758960.09	74.38741	(13062606)		
449422.20	3758960.09	72.33528	(13062606)	449426.07
3758960.09	70.38095	(13062606)		
449429.94	3758960.09	68.51665	(13062606)	449433.81
3758960.09	66.73559	(13062606)		
449437.68	3758960.09	65.03285	(13062606)	449441.55
3758960.09	63.41410	(13062606)		
449445.42	3758960.09	61.87106	(13062606)	449368.02
3758974.13	117.45738	(13112916)		
449371.89	3758974.13	112.62569	(13020301)	449375.76
3758974.13	109.44718	(13020301)		
449379.63	3758974.13	106.36255	(13020301)	449383.50
3758974.13	99.15525	(13062606)		

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

X-COORD (M)		Y-COORD (M)		CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	CONC	(YYMMDDHH)			
449387.37	3758974.13	95.65635	(13062606)			449391.24
3758974.13	92.39608	(16092620)				
449395.11	3758974.13	89.34781	(13062606)			449398.98
3758974.13	86.48550	(13062606)				
449402.85	3758974.13	83.80013	(13062606)			449406.72
3758974.13	81.26558	(13062606)				
449410.59	3758974.13	78.87453	(13062606)			449414.46
3758974.13	76.61633	(13062606)				
449418.33	3758974.13	74.46799	(13062606)			449422.20
3758974.13	72.42194	(13062606)				
449426.07	3758974.13	70.46919	(13062606)			449429.94
3758974.13	68.60673	(13062606)				
449433.81	3758974.13	66.82791	(13062606)			449437.68
3758974.13	65.12684	(13062606)				
449441.55	3758974.13	63.50241	(13062606)			449445.42
3758974.13	61.95145	(13062606)				
449368.02	3758988.17	117.65419	(13112916)			449371.89
3758988.17	111.58469	(13062606)				
449375.76	3758988.17	108.43866	(13020301)			449379.63
3758988.17	105.48363	(13020301)				
449383.50	3758988.17	99.26961	(13062606)			449387.37
3758988.17	95.75654	(13062606)				

449391.24	3758988.17	92.48121	(13062606)	449395.11
3758988.17	89.60431	(16092620)		
449398.98	3758988.17	86.55550	(13062606)	449402.85
3758988.17	83.85907	(13062606)		
449406.72	3758988.17	81.31999	(13062606)	449410.59
3758988.17	78.93210	(13062606)		
449414.46	3758988.17	76.67147	(13062606)	449418.33
3758988.17	74.52749	(13062606)		
449422.20	3758988.17	72.48490	(13062606)	449426.07
3758988.17	70.53553	(13062606)		
449429.94	3758988.17	68.67692	(13062606)	449433.81
3758988.17	66.90010	(13062606)		
449437.68	3758988.17	65.20116	(13062606)	449441.55
3758988.17	63.57466	(13062606)		
449445.42	3758988.17	62.01697	(13062606)	449368.02
3759002.21	120.77056	(13020301)		
449371.89	3759002.21	117.33596	(13020301)	449375.76
3759002.21	114.05695	(13020301)		
449379.63	3759002.21	110.86206	(13020301)	449383.50
3759002.21	102.61896	(13020301)		
449387.37	3759002.21	99.18416	(13020301)	449391.24
3759002.21	92.54492	(13062606)		
449395.11	3759002.21	89.48356	(13062606)	449398.98
3759002.21	86.88958	(16092620)		
449402.85	3759002.21	83.92070	(13062606)	449406.72
3759002.21	81.37950	(13062606)		
449410.59	3759002.21	78.98564	(13062606)	449414.46
3759002.21	76.71828	(13062606)		
449418.33	3759002.21	74.56885	(13062606)	449422.20
3759002.21	72.52290	(13062606)		
449426.07	3759002.21	70.57734	(13062606)	449429.94
3759002.21	68.72119	(13062606)		
449433.81	3759002.21	66.94869	(13062606)	449437.68
3759002.21	65.25686	(13062606)		
449441.55	3759002.21	63.63329	(13062606)	449445.42
3759002.21	62.07649	(13062606)		
449368.02	3759016.25	121.36092	(13020301)	449371.89
3759016.25	118.02034	(13020301)		
449375.76	3759016.25	114.83069	(13020301)	449379.63
3759016.25	111.72550	(13020301)		
449383.50	3759016.25	107.60847	(13020301)	449387.37
3759016.25	99.46990	(13020301)		
449391.24	3759016.25	95.96957	(13020301)	449395.11
3759016.25	89.53426	(13062606)		
449398.98	3759016.25	86.68919	(16092620)	449402.85
3759016.25	84.12836	(16092620)		
449406.72	3759016.25	81.42395	(13062606)	449410.59
3759016.25	79.02029	(13062606)		
449414.46	3759016.25	76.75027	(13062606)	449418.33
3759016.25	74.59382	(13062606)		

449422.20 3759016.25 72.54967 (13062606) 449426.07
 3759016.25 70.60167 (13062606)
 449429.94 3759016.25 68.74931 (13062606) 449433.81
 3759016.25 66.98016 (13062606)
 449437.68 3759016.25 65.29407 (13062606) 449441.55
 3759016.25 63.67537 (13062606)
 449445.42 3759016.25 62.11875 (13062606) 449368.02
 3759030.29 118.37477 (13112916)

^ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449371.89	3759030.29	114.29448	(13020301)	449375.76
3759030.29	111.20308	(13020301)		
449379.63	3759030.29	108.20856	(13020301)	449383.50
3759030.29	100.08868	(13020301)		
449387.37	3759030.29	96.98070	(16092620)	449391.24
3759030.29	92.70075	(13062606)		
449395.11	3759030.29	89.62094	(13062606)	449398.98
3759030.29	86.73712	(13062606)		
449402.85	3759030.29	84.01990	(13062606)	449406.72
3759030.29	81.46301	(13062606)		
449410.59	3759030.29	79.04445	(13062606)	449414.46
3759030.29	76.76100	(13062606)		
449418.33	3759030.29	74.59642	(13062606)	449422.20

3759030.29	72.54092	(13062606)	
449426.07	3759030.29	70.59103	(13062606) 449429.94
3759030.29	68.73478	(13062606)	
449433.81	3759030.29	66.96665	(13062606) 449437.68
3759030.29	65.27937	(13062606)	
449441.55	3759030.29	63.65952	(13062606) 449445.42
3759030.29	62.09944	(13062606)	
449368.02	3759044.33	119.33141	(13112916) 449371.89
3759044.33	113.09461	(13112916)	
449375.76	3759044.33	107.59390	(13062606) 449379.63
3759044.33	103.44447	(13062606)	
449383.50	3759044.33	99.63416	(13062606) 449387.37
3759044.33	96.08224	(13062606)	
449391.24	3759044.33	92.77377	(13062606) 449395.11
3759044.33	89.67361	(13062606)	
449398.98	3759044.33	86.76849	(13062606) 449402.85
3759044.33	84.03317	(13062606)	
449406.72	3759044.33	81.45757	(13062606) 449410.59
3759044.33	79.02541	(13062606)	
449414.46	3759044.33	76.73263	(13062606) 449418.33
3759044.33	74.56459	(13062606)	
449422.20	3759044.33	72.50831	(13062606) 449426.07
3759044.33	70.55552	(13062606)	
449429.94	3759044.33	68.70112	(13062606) 449433.81
3759044.33	66.93364	(13062606)	
449437.68	3759044.33	65.24900	(13062606) 449441.55
3759044.33	63.62873	(13062606)	
449445.42	3759044.33	62.06537	(13062606)

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
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*** AERMET - VERSION 16216 ***      ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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          *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES 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
,
  
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)
449368.02	3758763.53	95.58116c (12121708)	449371.89
3758763.53	91.54317c (12121708)		
449375.76	3758763.53	87.81040c (12121708)	449379.63
3758763.53	84.35686c (12121708)		
449383.50	3758763.53	81.19557c (12121708)	449387.37
3758763.53	78.25942c (12121708)		
449391.24	3758763.53	75.51813c (12121708)	449395.11
3758763.53	72.95520c (12121708)		
449398.98	3758763.53	70.55285c (12121708)	449402.85
3758763.53	68.29614c (12121708)		
449406.72	3758763.53	66.17435c (12121708)	449410.59
3758763.53	64.18110c (12121708)		
449414.46	3758763.53	62.32082c (12121708)	449418.33
3758763.53	60.55940c (12121708)		
449422.20	3758763.53	58.88894c (12121708)	449426.07
3758763.53	57.30233c (12121708)		
449429.94	3758763.53	55.79321c (12121708)	449433.81
3758763.53	54.35580c (12121708)		
449437.68	3758763.53	52.98500c (12121708)	449441.55
3758763.53	51.68591c (12121708)		
449445.42	3758763.53	50.44754c (12121708)	449368.02
3758777.57	95.85747c (12121708)		
449371.89	3758777.57	91.76629c (12121708)	449375.76
3758777.57	87.98086c (12121708)		
449379.63	3758777.57	84.48085c (12121708)	449383.50
3758777.57	81.31583c (12121708)		
449387.37	3758777.57	78.37319c (12121708)	449391.24
3758777.57	75.63306c (12121708)		
449395.11	3758777.57	73.06804c (12121708)	449398.98
3758777.57	70.66425c (12121708)		
449402.85	3758777.57	68.40627c (12121708)	449406.72
3758777.57	66.28084c (12121708)		
449410.59	3758777.57	64.28788c (12121708)	449414.46
3758777.57	62.43278c (12121708)		
449418.33	3758777.57	60.67337c (12121708)	449422.20
3758777.57	59.00462c (12121708)		
449426.07	3758777.57	57.41949c (12121708)	449429.94
3758777.57	55.91164c (12121708)		
449433.81	3758777.57	54.47537c (12121708)	449437.68
3758777.57	53.10553c (12121708)		
449441.55	3758777.57	51.81213c (12121708)	449445.42
3758777.57	50.58508c (12121708)		

449368.02	3758791.61	96.16354c (12121708)	449371.89
3758791.61	92.09940c (12121708)		
449375.76	3758791.61	88.35109c (12121708)	449379.63
3758791.61	84.88337c (12121708)		
449383.50	3758791.61	81.70765c (12121708)	449387.37
3758791.61	78.75500c (12121708)		
449391.24	3758791.61	76.00194c (12121708)	449395.11
3758791.61	73.43126c (12121708)		
449398.98	3758791.61	71.01907c (12121708)	449402.85
3758791.61	68.75319c (12121708)		
449406.72	3758791.61	66.62027c (12121708)	449410.59
3758791.61	64.61971c (12121708)		
449414.46	3758791.61	62.75355c (12121708)	449418.33
3758791.61	60.98652c (12121708)		
449422.20	3758791.61	59.31310c (12121708)	449426.07
3758791.61	57.72118c (12121708)		
449429.94	3758791.61	56.20693c (12121708)	449433.81
3758791.61	54.76457c (12121708)		
449437.68	3758791.61	53.38894c (12121708)	449441.55
3758791.61	52.08144c (12121708)		
449445.42	3758791.61	50.83908c (12121708)	449368.02
3758805.65	96.46345c (12121708)		
449371.89	3758805.65	92.41872c (12121708)	449375.76
3758805.65	88.69746c (12121708)		
449379.63	3758805.65	85.26041c (12121708)	449383.50
3758805.65	82.07429c (12121708)		
449387.37	3758805.65	79.11228c (12121708)	449391.24
3758805.65	76.35029c (12121708)		
449395.11	3758805.65	73.76823c (12121708)	449398.98
3758805.65	71.35111c (12121708)		
449402.85	3758805.65	69.07790c (12121708)	449406.72
3758805.65	66.93798c (12121708)		
449410.59	3758805.65	64.93028c (12121708)	449414.46
3758805.65	63.05625c (12121708)		
449418.33	3758805.65	61.28185c (12121708)	449422.20
3758805.65	59.59910c (12121708)		
449426.07	3758805.65	58.00082c (12121708)	449429.94
3758805.65	56.48274c (12121708)		

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L000001 , L000002
, L000003 , L000004 , L000005 ,

, L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018
 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

**		** CONC OF CO		IN MICROGRAMS/M**3	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)			
449433.81	3758805.65	55.03461c	(12121708)	449437.68	3758805.65
3758805.65	53.65353c	(12121708)			449441.55
449441.55	3758805.65	52.33481c	(12121708)	449445.42	3758805.65
3758805.65	51.07416c	(12121708)			449368.02
449368.02	3758819.69	96.69904c	(12121708)	449371.89	3758819.69
3758819.69	92.64547c	(12121708)			449375.76
449375.76	3758819.69	88.91793c	(12121708)	449379.63	3758819.69
3758819.69	85.47233c	(12121708)			449383.50
449383.50	3758819.69	82.27899c	(12121708)	449387.37	3758819.69
3758819.69	79.31048c	(12121708)			449391.24
449391.24	3758819.69	76.54282c	(12121708)	449395.11	3758819.69
3758819.69	73.95865c	(12121708)			449398.98
449398.98	3758819.69	71.53402c	(12121708)	449402.85	3758819.69
3758819.69	69.25664c	(12121708)			449406.72
449406.72	3758819.69	67.11293c	(12121708)	449410.59	3758819.69
3758819.69	65.10202c	(12121708)			449414.46
449414.46	3758819.69	63.22558c	(12121708)	449418.33	3758819.69
3758819.69	61.44889c	(12121708)			449422.20
449422.20	3758819.69	59.76395c	(12121708)	449426.07	3758819.69
3758819.69	58.16587c	(12121708)			449429.94
449429.94	3758819.69	56.64352c	(12121708)	449433.81	3758819.69
3758819.69	55.19346c	(12121708)			449437.68
449437.68	3758819.69	53.81051c	(12121708)	449441.55	3758819.69
3758819.69	52.48996c	(12121708)			449445.42
449445.42	3758819.69	51.22754c	(12121708)	449368.02	3758833.73
3758833.73	96.91030c	(12121708)			449371.89
449371.89	3758833.73	92.84727c	(12121708)	449375.76	3758833.73
3758833.73	89.11160c	(12121708)			449379.63
449379.63	3758833.73	85.65853c	(12121708)	449383.50	3758833.73
3758833.73	82.45859c	(12121708)			449387.37
449387.37	3758833.73	79.48420c	(12121708)	449391.24	3758833.73
3758833.73	76.71131c	(12121708)			449395.11
449395.11	3758833.73	74.12257c	(12121708)	449398.98	

3758833.73	71.69375c (12121708)	
449402.85	3758833.73	69.41257c (12121708) 449406.72
3758833.73	67.26543c (12121708)	
449410.59	3758833.73	65.25168c (12121708) 449414.46
3758833.73	63.37325c (12121708)	
449418.33	3758833.73	61.59467c (12121708) 449422.20
3758833.73	59.90792c (12121708)	
449426.07	3758833.73	58.30817c (12121708) 449429.94
3758833.73	56.78415c (12121708)	
449433.81	3758833.73	55.33248c (12121708) 449437.68
3758833.73	53.94797c (12121708)	
449441.55	3758833.73	52.62591c (12121708) 449445.42
3758833.73	51.36202c (12121708)	
449368.02	3758847.77	97.31768c (12121708) 449371.89
3758847.77	93.25697c (12121708)	
449375.76	3758847.77	89.52322c (12121708) 449379.63
3758847.77	86.07310c (12121708)	
449383.50	3758847.77	82.86325c (12121708) 449387.37
3758847.77	79.88139c (12121708)	
449391.24	3758847.77	77.09878c (12121708) 449395.11
3758847.77	74.49733c (12121708)	
449398.98	3758847.77	72.05951c (12121708) 449402.85
3758847.77	69.76962c (12121708)	
449406.72	3758847.77	67.61680c (12121708) 449410.59
3758847.77	65.58887c (12121708)	
449414.46	3758847.77	63.68747c (12121708) 449418.33
3758847.77	61.89006c (12121708)	
449422.20	3758847.77	60.18345c (12121708) 449426.07
3758847.77	58.56284c (12121708)	
449429.94	3758847.77	57.02164c (12121708) 449433.81
3758847.77	55.55386c (12121708)	
449437.68	3758847.77	54.15427c (12121708) 449441.55
3758847.77	52.82396c (12121708)	
449445.42	3758847.77	51.55607c (12121708) 449368.02
3758861.81	97.67891c (12121708)	
449371.89	3758861.81	93.63370c (12121708) 449375.76
3758861.81	89.90454c (12121708)	
449379.63	3758861.81	86.46451c (12121708) 449383.50
3758861.81	83.25561c (12121708)	
449387.37	3758861.81	80.26655c (12121708) 449391.24
3758861.81	77.47947c (12121708)	
449395.11	3758861.81	74.87384c (12121708) 449398.98
3758861.81	72.42987c (12121708)	
449402.85	3758861.81	70.13311c (12121708) 449406.72
3758861.81	67.97109c (12121708)	
449410.59	3758861.81	65.93345c (12121708) 449414.46
3758861.81	64.01016c (12121708)	

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
 *** 11/11/21

*** AERMET - VERSION 16216 *** ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449418.33	3758861.81	62.18930c (12121708)	449422.20
3758861.81	60.46287c (12121708)		
449426.07	3758861.81	58.82532c (12121708)	449429.94
3758861.81	57.26601c (12121708)		
449433.81	3758861.81	55.78101c (12121708)	449437.68
3758861.81	54.36496c (12121708)		
449441.55	3758861.81	53.02438c (12121708)	449445.42
3758861.81	51.75211c (12121708)		
449368.02	3758875.85	97.92947c (12121708)	449371.89
3758875.85	93.88592c (12121708)		
449375.76	3758875.85	90.16096c (12121708)	449379.63
3758875.85	86.71874c (12121708)		
449383.50	3758875.85	83.51784c (12121708)	449387.37
3758875.85	80.53021c (12121708)		
449391.24	3758875.85	77.74429c (12121708)	449395.11
3758875.85	75.13407c (12121708)		
449398.98	3758875.85	72.68852c (12121708)	449402.85
3758875.85	70.38803c (12121708)		
449406.72	3758875.85	68.22188c (12121708)	449410.59
3758875.85	66.17791c (12121708)		
449414.46	3758875.85	64.24608c (12121708)	449418.33
3758875.85	62.41881c (12121708)		
449422.20	3758875.85	60.68417c (12121708)	449426.07
3758875.85	59.03661c (12121708)		

449429.94	3758875.85	57.46957c (12121708)	449433.81
3758875.85	55.97706c (12121708)		
449437.68	3758875.85	54.55558c (12121708)	449441.55
3758875.85	53.20923c (12121708)		
449445.42	3758875.85	51.93281c (12121708)	449368.02
3758889.89	98.14781c (12121708)		
449371.89	3758889.89	94.09799c (12121708)	449375.76
3758889.89	90.36759c (12121708)		
449379.63	3758889.89	86.92533c (12121708)	449383.50
3758889.89	83.72579c (12121708)		
449387.37	3758889.89	80.74065c (12121708)	449391.24
3758889.89	77.95389c (12121708)		
449395.11	3758889.89	75.34272c (12121708)	449398.98
3758889.89	72.89344c (12121708)		
449402.85	3758889.89	70.59104c (12121708)	449406.72
3758889.89	68.42185c (12121708)		
449410.59	3758889.89	66.37426c (12121708)	449414.46
3758889.89	64.43909c (12121708)		
449418.33	3758889.89	62.60636c (12121708)	449422.20
3758889.89	60.87020c (12121708)		
449426.07	3758889.89	59.21927c (12121708)	449429.94
3758889.89	57.64905c (12121708)		
449433.81	3758889.89	56.15337c (12121708)	449437.68
3758889.89	54.72704c (12121708)		
449441.55	3758889.89	53.37882c (12121708)	449445.42
3758889.89	52.09849c (12121708)		
449368.02	3758903.93	98.33005c (12121708)	449371.89
3758903.93	94.27358c (12121708)		
449375.76	3758903.93	90.54305c (12121708)	449379.63
3758903.93	87.09740c (12121708)		
449383.50	3758903.93	83.90806c (12121708)	449387.37
3758903.93	80.93401c (12121708)		
449391.24	3758903.93	78.15595c (12121708)	449395.11
3758903.93	75.55209c (12121708)		
449398.98	3758903.93	73.10791c (12121708)	449402.85
3758903.93	70.80709c (12121708)		
449406.72	3758903.93	68.63858c (12121708)	449410.59
3758903.93	66.58922c (12121708)		
449414.46	3758903.93	64.64724c (12121708)	449418.33
3758903.93	62.80778c (12121708)		
449422.20	3758903.93	61.06229c (12121708)	449426.07
3758903.93	59.40381c (12121708)		
449429.94	3758903.93	57.82584c (12121708)	449433.81
3758903.93	56.32240c (12121708)		
449437.68	3758903.93	54.88839c (12121708)	449441.55
3758903.93	53.53181c (12121708)		
449445.42	3758903.93	52.24940c (12121708)	449368.02
3758917.97	98.43821c (12121708)		
449371.89	3758917.97	94.37966c (12121708)	449375.76
3758917.97	90.64549c (12121708)		

449379.63	3758917.97	87.19968c (12121708)	449383.50
3758917.97	84.02815c (12121708)		
449387.37	3758917.97	81.06609c (12121708)	449391.24
3758917.97	78.30525c (12121708)		
449395.11	3758917.97	75.71361c (12121708)	449398.98
3758917.97	73.28390c (12121708)		

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:18:15

PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION

 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449402.85	3758917.97	70.99222c (12121708)		449406.72
3758917.97	68.83423c (12121708)			
449410.59	3758917.97	66.78856c (12121708)		449414.46
3758917.97	64.84766c (12121708)			
449418.33	3758917.97	63.00370c (12121708)		449422.20
3758917.97	61.25071c (12121708)			
449426.07	3758917.97	59.58332c (12121708)		449429.94
3758917.97	57.99360c (12121708)			
449433.81	3758917.97	56.47945c (12121708)		449437.68
3758917.97	55.03425c (12121708)			
449441.55	3758917.97	53.67171c (12121708)		449445.42
3758917.97	52.38428c (12121708)			
449368.02	3758932.01	98.52517c (12121708)		449371.89
3758932.01	94.45806c (12121708)			
449375.76	3758932.01	90.71764c (12121708)		449379.63

3758932.01	87.26598c (12121708)	
449383.50	3758932.01	84.09886c (12121708) 449387.37
3758932.01	81.15701c (12121708)	
449391.24	3758932.01	78.39931c (12121708) 449395.11
3758932.01	75.82127c (12121708)	
449398.98	3758932.01	73.39438c (12121708) 449402.85
3758932.01	71.11548c (12121708)	
449406.72	3758932.01	68.96064c (12121708) 449410.59
3758932.01	66.92699c (12121708)	
449414.46	3758932.01	64.99124c (12121708) 449418.33
3758932.01	63.14853c (12121708)	
449422.20	3758932.01	61.39652c (12121708) 449426.07
3758932.01	59.72815c (12121708)	
449429.94	3758932.01	58.13507c (12121708) 449433.81
3758932.01	56.61509c (12121708)	
449437.68	3758932.01	55.16475c (12121708) 449441.55
3758932.01	53.79553c (12121708)	
449445.42	3758932.01	52.50073c (12121708) 449368.02
3758946.05	98.61582c (12121708)	
449371.89	3758946.05	94.54018c (12121708) 449375.76
3758946.05	90.79317c (12121708)	
449379.63	3758946.05	87.33651c (12121708) 449383.50
3758946.05	84.18648c (12121708)	
449387.37	3758946.05	81.23696c (12121708) 449391.24
3758946.05	78.49044c (12121708)	
449395.11	3758946.05	75.90871c (12121708) 449398.98
3758946.05	73.48955c (12121708)	
449402.85	3758946.05	71.20736c (12121708) 449406.72
3758946.05	69.05796c (12121708)	
449410.59	3758946.05	67.02324c (12121708) 449414.46
3758946.05	65.09318c (12121708)	
449418.33	3758946.05	63.25639c (12121708) 449422.20
3758946.05	61.50531c (12121708)	
449426.07	3758946.05	59.83905c (12121708) 449429.94
3758946.05	58.24786c (12121708)	
449433.81	3758946.05	56.72796c (12121708) 449437.68
3758946.05	55.27595c (12121708)	
449441.55	3758946.05	53.90095c (12121708) 449445.42
3758946.05	52.59684c (12121708)	
449368.02	3758960.09	98.69783c (12121708) 449371.89
3758960.09	94.61703c (12121708)	
449375.76	3758960.09	90.86486c (12121708) 449379.63
3758960.09	87.40354c (12121708)	
449383.50	3758960.09	84.25562c (12121708) 449387.37
3758960.09	81.30594c (12121708)	
449391.24	3758960.09	78.56035c (12121708) 449395.11
3758960.09	75.97819c (12121708)	
449398.98	3758960.09	73.56123c (12121708) 449402.85
3758960.09	71.27993c (12121708)	
449406.72	3758960.09	69.13339c (12121708) 449410.59

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3758960.09      67.10022c (12121708)
      449414.46  3758960.09      65.17564c (12121708)      449418.33
3758960.09      63.34376c (12121708)
      449422.20  3758960.09      61.59621c (12121708)      449426.07
3758960.09      59.93179c (12121708)
      449429.94  3758960.09      58.34346c (12121708)      449433.81
3758960.09      56.82551c (12121708)
      449437.68  3758960.09      55.37368c (12121708)      449441.55
3758960.09      53.99386c (12121708)
      449445.42  3758960.09      52.67880c (12121708)      449368.02
3758974.13      98.87288c (12121708)
      449371.89  3758974.13      94.77951c (12121708)      449375.76
3758974.13      91.01576c (12121708)
      449379.63  3758974.13      87.54378c (12121708)      449383.50
3758974.13      84.37171c (12121708)

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
      ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
      ***      12:18:15

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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      *** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES 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
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449387.37	3758974.13	81.40379c (12121708)	449391.24
3758974.13	78.63465c (12121708)		
449395.11	3758974.13	76.05291c (12121708)	449398.98
3758974.13	73.62280c (12121708)		
449402.85	3758974.13	71.34409c (12121708)	449406.72
3758974.13	69.19023c (12121708)		

449410.59	3758974.13	67.15860c (12121708)	449414.46
3758974.13	65.23972c (12121708)		
449418.33	3758974.13	63.41254c (12121708)	449422.20
3758974.13	61.67139c (12121708)		
449426.07	3758974.13	60.00828c (12121708)	449429.94
3758974.13	58.42194c (12121708)		
449433.81	3758974.13	56.90629c (12121708)	449437.68
3758974.13	55.45641c (12121708)		
449441.55	3758974.13	54.07152c (12121708)	449445.42
3758974.13	52.74933c (12121708)		
449368.02	3758988.17	99.03099c (12121708)	449371.89
3758988.17	94.92113c (12121708)		
449375.76	3758988.17	91.14400c (12121708)	449379.63
3758988.17	87.65898c (12121708)		
449383.50	3758988.17	84.46895c (12121708)	449387.37
3758988.17	81.48748c (12121708)		
449391.24	3758988.17	78.70746c (12121708)	449395.11
3758988.17	76.10696c (12121708)		
449398.98	3758988.17	73.67859c (12121708)	449402.85
3758988.17	71.38811c (12121708)		
449406.72	3758988.17	69.23095c (12121708)	449410.59
3758988.17	67.20467c (12121708)		
449414.46	3758988.17	65.28481c (12121708)	449418.33
3758988.17	63.46275c (12121708)		
449422.20	3758988.17	61.72518c (12121708)	449426.07
3758988.17	60.06546c (12121708)		
449429.94	3758988.17	58.48297c (12121708)	449433.81
3758988.17	56.96942c (12121708)		
449437.68	3758988.17	55.52173c (12121708)	449441.55
3758988.17	54.13511c (12121708)		
449445.42	3758988.17	52.80707c (12121708)	449368.02
3759002.21	99.04692c (12121708)		
449371.89	3759002.21	94.93289c (12121708)	449375.76
3759002.21	91.15196c (12121708)		
449379.63	3759002.21	87.66559c (12121708)	449383.50
3759002.21	84.49264c (12121708)		
449387.37	3759002.21	81.51795c (12121708)	449391.24
3759002.21	78.75630c (12121708)		
449395.11	3759002.21	76.15910c (12121708)	449398.98
3759002.21	73.72349c (12121708)		
449402.85	3759002.21	71.44010c (12121708)	449406.72
3759002.21	69.28213c (12121708)		
449410.59	3759002.21	67.25081c (12121708)	449414.46
3759002.21	65.32450c (12121708)		
449418.33	3759002.21	63.49802c (12121708)	449422.20
3759002.21	61.75694c (12121708)		
449426.07	3759002.21	60.10149c (12121708)	449429.94
3759002.21	58.52144c (12121708)		
449433.81	3759002.21	57.01172c (12121708)	449437.68
3759002.21	55.57080c (12121708)		

449441.55	3759002.21	54.18704c (12121708)	449445.42
3759002.21	52.86002c (12121708)		
449368.02	3759016.25	99.05938c (12121708)	449371.89
3759016.25	94.94406c (12121708)		
449375.76	3759016.25	91.16089c (12121708)	449379.63
3759016.25	87.67203c (12121708)		
449383.50	3759016.25	84.64303 (14121224)	449387.37
3759016.25	81.54864c (12121708)		
449391.24	3759016.25	78.78004c (12121708)	449395.11
3759016.25	76.19899c (12121708)		
449398.98	3759016.25	73.76355c (12121708)	449402.85
3759016.25	71.47366c (12121708)		
449406.72	3759016.25	69.32038c (12121708)	449410.59
3759016.25	67.27954c (12121708)		
449414.46	3759016.25	65.35152c (12121708)	449418.33
3759016.25	63.51843c (12121708)		
449422.20	3759016.25	61.77992c (12121708)	449426.07
3759016.25	60.12186c (12121708)		
449429.94	3759016.25	58.54558c (12121708)	449433.81
3759016.25	57.03914c (12121708)		
449437.68	3759016.25	55.60373c (12121708)	449441.55
3759016.25	54.22492c (12121708)		
449445.42	3759016.25	52.89796c (12121708)	449368.02
3759030.29	99.32046c (12121708)		

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
                                ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
                                ***      12:18:15

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

```

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES 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
,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)

Y-COORD (M)	CONC	(YYMMDDHH)	
449371.89	3759030.29	95.17799c	(12121708) 449375.76
3759030.29	91.37208c	(12121708)	
449379.63	3759030.29	87.86342c	(12121708) 449383.50
3759030.29	84.66891c	(12121708)	
449387.37	3759030.29	81.68066c	(12121708) 449391.24
3759030.29	78.89807c	(12121708)	
449395.11	3759030.29	76.28570c	(12121708) 449398.98
3759030.29	73.83930c	(12121708)	
449402.85	3759030.29	71.53207c	(12121708) 449406.72
3759030.29	69.36040c	(12121708)	
449410.59	3759030.29	67.30437c	(12121708) 449414.46
3759030.29	65.36274c	(12121708)	
449418.33	3759030.29	63.52083c	(12121708) 449422.20
3759030.29	61.77133c	(12121708)	
449426.07	3759030.29	60.11216c	(12121708) 449429.94
3759030.29	58.53194c	(12121708)	
449433.81	3759030.29	57.02693c	(12121708) 449437.68
3759030.29	55.59019c	(12121708)	
449441.55	3759030.29	54.21045c	(12121708) 449445.42
3759030.29	52.88044c	(12121708)	
449368.02	3759044.33	99.53746c	(12121708) 449371.89
3759044.33	95.37184c	(12121708)	
449375.76	3759044.33	91.54627c	(12121708) 449379.63
3759044.33	88.02143c	(12121708)	
449383.50	3759044.33	84.79259c	(12121708) 449387.37
3759044.33	81.77922c	(12121708)	
449391.24	3759044.33	78.97244c	(12121708) 449395.11
3759044.33	76.33992c	(12121708)	
449398.98	3759044.33	73.87255c	(12121708) 449402.85
3759044.33	71.54737c	(12121708)	
449406.72	3759044.33	69.35728c	(12121708) 449410.59
3759044.33	67.28762c	(12121708)	
449414.46	3759044.33	65.33664c	(12121708) 449418.33
3759044.33	63.49219c	(12121708)	
449422.20	3759044.33	61.74215c	(12121708) 449426.07
3759044.33	60.08000c	(12121708)	
449429.94	3759044.33	58.50198c	(12121708) 449433.81
3759044.33	56.99736c	(12121708)	
449437.68	3759044.33	55.56319c	(12121708) 449441.55
3759044.33	54.18317c	(12121708)	
449445.42	3759044.33	52.85028c	(12121708)

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:18:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

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

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

ALL HIGH 1ST HIGH VALUE IS 121.36092 ON 13020301: AT (449368.02, 3759016.25, 199.00, 199.00, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
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*** AERMET - VERSION 16216 ***
12:18:15

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 8-HR

RESULTS ***

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

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

ALL HIGH 1ST HIGH VALUE IS 99.53746c ON 12121708: AT (449368.02, 3759044.33, 198.07, 198.07, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\CO\CO.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 12:18:15

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1638 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified (1.37 Percent)

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

** Lakes Environmental AERMOD MPI
**

**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021

** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ADI

**

**

**

** AERMOD CONTROL PATHWAY

**

**

CO STARTING

TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC

MODELOPT DFAULT CONC

AVERTIME ANNUAL

URBANOPT 2189641

POLLUTID DPM

RUNORNOT RUN

ERRORFIL DPM.ERR

CO FINISHED

**

** AERMOD SOURCE PATHWAY

**

**

SO STARTING

** SOURCE LOCATION **

** SOURCE ID - TYPE - X COORD. - Y COORD. **

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE1

** DESCRSRC I-15 FREEWAY

** PREFIX

** LENGTH OF SIDE = 46.00

** CONFIGURATION = ADJACENT

** EMISSION RATE = 0.00184

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 2

** 449288.372, 3758373.924, 188.51, 3.49, 21.40

** 449298.585, 3759554.578, 201.92, 3.49, 21.40

**

LOCATION	VOLUME	X COORD.	Y COORD.	HEIGHT
L0000131	449288.571	3758396.923	189.03	
L0000132	449288.969	3758442.921	189.02	
L0000133	449289.367	3758488.920	189.85	
L0000134	449289.765	3758534.918	191.94	
L0000135	449290.163	3758580.916	193.48	
L0000136	449290.561	3758626.914	194.96	
L0000137	449290.958	3758672.913	195.00	
L0000138	449291.356	3758718.911	195.99	

LOCATION L0000139	VOLUME	449291.754	3758764.909	195.92
LOCATION L0000140	VOLUME	449292.152	3758810.908	194.99
LOCATION L0000141	VOLUME	449292.550	3758856.906	195.58
LOCATION L0000142	VOLUME	449292.948	3758902.904	197.22
LOCATION L0000143	VOLUME	449293.346	3758948.902	198.00
LOCATION L0000144	VOLUME	449293.744	3758994.901	198.00
LOCATION L0000145	VOLUME	449294.142	3759040.899	198.00
LOCATION L0000146	VOLUME	449294.540	3759086.897	197.29
LOCATION L0000147	VOLUME	449294.938	3759132.895	197.98
LOCATION L0000148	VOLUME	449295.335	3759178.894	198.42
LOCATION L0000149	VOLUME	449295.733	3759224.892	199.00
LOCATION L0000150	VOLUME	449296.131	3759270.890	200.89
LOCATION L0000151	VOLUME	449296.529	3759316.889	201.76
LOCATION L0000152	VOLUME	449296.927	3759362.887	201.20
LOCATION L0000153	VOLUME	449297.325	3759408.885	201.00
LOCATION L0000154	VOLUME	449297.723	3759454.883	201.00
LOCATION L0000155	VOLUME	449298.121	3759500.882	201.00
LOCATION L0000156	VOLUME	449298.519	3759546.880	201.69

** END OF LINE VOLUME SOURCE ID = SLINE1

** SOURCE PARAMETERS **

** LINE VOLUME SOURCE ID = SLINE1

SRCPARAM L0000131	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000132	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000133	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000134	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000135	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000136	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000137	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000138	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000139	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000140	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000141	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000142	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000143	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000144	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000145	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000146	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000147	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000148	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000149	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000150	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000151	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000152	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000153	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000154	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000155	0.0000707692	3.49	21.40	3.25
SRCPARAM L0000156	0.0000707692	3.49	21.40	3.25

**

 URBANSRC ALL

SRCGROUP ALL

SO FINISHED

**

** AERMOD RECEPTOR PATHWAY

**

**

RE STARTING

INCLUDED DPM.ROU

RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

**

ME STARTING

SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC

PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL

SURFDATA 3171 2012

UAIRDATA 3190 2012

PROFBASE 245.0 METERS

ME FINISHED

**

** AERMOD OUTPUT PATHWAY

**

**

OU STARTING

** AUTO-GENERATED PLOTFILES

PLOTFILE ANNUAL ALL DPM.AD\AN00GALL.PLT 31

SUMMFILE DPM.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 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 10:36:53

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; 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: 26 Source(s); 1 Source Group(s); and 441 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 26 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 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
b for Both Calm
and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: DPM.ERR

**File for Summary of Results: DPM.SUM

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 10:36:53

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY	X	Y	(METERS)	(METERS)	(METERS)
ID		CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								
L0000131		0	0.70769E-04	449288.6	3758396.9	189.0	3.49	21.40
3.25	YES							
L0000132		0	0.70769E-04	449289.0	3758442.9	189.0	3.49	21.40
3.25	YES							
L0000133		0	0.70769E-04	449289.4	3758488.9	189.9	3.49	21.40
3.25	YES							
L0000134		0	0.70769E-04	449289.8	3758534.9	191.9	3.49	21.40
3.25	YES							
L0000135		0	0.70769E-04	449290.2	3758580.9	193.5	3.49	21.40
3.25	YES							
L0000136		0	0.70769E-04	449290.6	3758626.9	195.0	3.49	21.40
3.25	YES							
L0000137		0	0.70769E-04	449291.0	3758672.9	195.0	3.49	21.40
3.25	YES							
L0000138		0	0.70769E-04	449291.4	3758718.9	196.0	3.49	21.40
3.25	YES							
L0000139		0	0.70769E-04	449291.8	3758764.9	195.9	3.49	21.40
3.25	YES							
L0000140		0	0.70769E-04	449292.2	3758810.9	195.0	3.49	21.40
3.25	YES							
L0000141		0	0.70769E-04	449292.5	3758856.9	195.6	3.49	21.40
3.25	YES							
L0000142		0	0.70769E-04	449292.9	3758902.9	197.2	3.49	21.40
3.25	YES							
L0000143		0	0.70769E-04	449293.3	3758948.9	198.0	3.49	21.40
3.25	YES							
L0000144		0	0.70769E-04	449293.7	3758994.9	198.0	3.49	21.40
3.25	YES							
L0000145		0	0.70769E-04	449294.1	3759040.9	198.0	3.49	21.40
3.25	YES							

L0000146	0	0.70769E-04	449294.5	3759086.9	197.3	3.49	21.40
3.25	YES						
L0000147	0	0.70769E-04	449294.9	3759132.9	198.0	3.49	21.40
3.25	YES						
L0000148	0	0.70769E-04	449295.3	3759178.9	198.4	3.49	21.40
3.25	YES						
L0000149	0	0.70769E-04	449295.7	3759224.9	199.0	3.49	21.40
3.25	YES						
L0000150	0	0.70769E-04	449296.1	3759270.9	200.9	3.49	21.40
3.25	YES						
L0000151	0	0.70769E-04	449296.5	3759316.9	201.8	3.49	21.40
3.25	YES						
L0000152	0	0.70769E-04	449296.9	3759362.9	201.2	3.49	21.40
3.25	YES						
L0000153	0	0.70769E-04	449297.3	3759408.9	201.0	3.49	21.40
3.25	YES						
L0000154	0	0.70769E-04	449297.7	3759454.9	201.0	3.49	21.40
3.25	YES						
L0000155	0	0.70769E-04	449298.1	3759500.9	201.0	3.49	21.40
3.25	YES						
L0000156	0	0.70769E-04	449298.5	3759546.9	201.7	3.49	21.40
3.25	YES						

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID	SOURCE IDs
-----	-----
ALL	L0000131 , L0000132 , L0000133 , L0000134 , L0000135 ,
L0000136	, L0000137 , L0000138 ,
L0000144	L0000139 , L0000140 , L0000141 , L0000142 , L0000143 ,
	, L0000145 , L0000146 ,
L0000152	L0000147 , L0000148 , L0000149 , L0000150 , L0000151 ,
	, L0000153 , L0000154 ,
	L0000155 , L0000156 ,

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs			
-----	-----	-----	-----	-----	-----
L0000135	2189641.	L0000131	, L0000132	, L0000133	, L0000134
L0000138	, L0000136	, L0000137	, L0000138	, L0000139	, L0000140
L0000144	L0000139	, L0000140	, L0000141	, L0000142	, L0000143
L0000152	, L0000145	, L0000146	, L0000147	, L0000148	, L0000149
L0000152	L0000147	, L0000148	, L0000149	, L0000150	, L0000151
L0000152	, L0000153	, L0000154	, L0000155	, L0000156	, L0000157

▲ *** AERMOD - VERSION 19191 ***
*** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
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*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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(449375.8, 3758763.5,	191.8,	195.0,	0.0);	(449379.6,
3758763.5,	191.4,	195.0,	0.0);	
(449383.5, 3758763.5,	191.2,	195.0,	0.0);	(449387.4,
3758763.5,	190.9,	195.0,	0.0);	
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3758763.5,	190.4,	190.4,	0.0);	
(449399.0, 3758763.5,	190.1,	190.1,	0.0);	(449402.8,
3758763.5,	189.9,	189.9,	0.0);	
(449406.7, 3758763.5,	189.6,	189.6,	0.0);	(449410.6,
3758763.5,	189.4,	189.4,	0.0);	
(449414.5, 3758763.5,	189.3,	189.3,	0.0);	(449418.3,

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(449422.2, 3758763.5, 189.0, 189.0, 0.0); (449426.1,
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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 10:36:53

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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 (449429.9, 3758932.0, 193.1, 193.1, 0.0); (449433.8,
 3758932.0, 192.8, 192.8, 0.0);

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 10:36:53

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

(449437.7, 3758932.0, 192.4, 192.4, 0.0); (449441.5,
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 (449379.6, 3758946.0, 197.7, 197.7, 0.0); (449383.5,

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(449402.8, 3758946.0, 196.1, 196.1, 0.0); (449406.7,
3758946.0, 195.8, 195.8, 0.0);
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(449418.3, 3758946.0, 194.8, 194.8, 0.0); (449422.2,
3758946.0, 194.4, 194.4, 0.0);
(449426.1, 3758946.0, 194.0, 196.0, 0.0); (449429.9,
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(449433.8, 3758946.0, 193.2, 196.0, 0.0); (449437.7,
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( 449437.7, 3758988.2, 194.2, 194.2, 0.0); ( 449441.5,
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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
*** 11/11/21

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*** AERMET - VERSION 16216 *** ***
*** 10:36:53

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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( 449379.6, 3759002.2, 198.5, 198.5, 0.0); ( 449383.5,
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
      *** 11/11/21
*** AERMET - VERSION 16216 *** ***
      *** 10:36:53

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

```

Surface file: ..\KRAL_V9_ADJU\KRAL_V9.SFC
              Met Version: 16216
Profile file: ..\KRAL_V9_ADJU\KRAL_V9.PFL

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Surface format: FREE

Profile format: FREE

```

Surface station no.: 3171
                    Name: UNKNOWN
                    Year: 2012

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Upper air station no.: 3190
                      Name: UNKNOWN
                      Year: 2012

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First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	
1.00	2.93	55.	10.1	288.1	2.0									
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	
1.00	3.05	55.	10.1	287.0	2.0									
12	01	01	1	03	-21.5	0.221	-9.000	-9.000	-999.	250.	53.5	0.15	2.40	

1.00	2.45	74.	10.1	284.2	2.0								
12	01	01	1	04	-22.0	0.227	-9.000	-9.000	-999.	260.	56.8	0.15	2.40
1.00	2.52	77.	10.1	285.9	2.0								
12	01	01	1	05	-20.0	0.206	-9.000	-9.000	-999.	225.	46.8	0.15	2.40
1.00	2.30	80.	10.1	285.4	2.0								
12	01	01	1	06	-14.4	0.171	-9.000	-9.000	-999.	170.	32.1	0.15	2.40
1.00	1.93	79.	10.1	287.0	2.0								
12	01	01	1	07	-14.9	0.174	-9.000	-9.000	-999.	174.	33.2	0.15	2.40
1.00	1.96	77.	10.1	284.2	2.0								
12	01	01	1	08	-11.9	0.169	-9.000	-9.000	-999.	167.	36.1	0.15	2.40
0.53	1.89	77.	10.1	288.1	2.0								
12	01	01	1	09	40.4	0.234	0.359	0.006	40.	272.	-28.1	0.15	2.40
0.31	2.10	81.	10.1	289.2	2.0								
12	01	01	1	10	112.6	0.246	0.742	0.005	129.	293.	-11.8	0.15	2.40
0.24	1.99	101.	10.1	296.4	2.0								
12	01	01	1	11	161.0	0.402	1.188	0.005	369.	611.	-35.6	0.15	2.40
0.21	3.68	78.	10.1	298.8	2.0								
12	01	01	1	12	184.7	0.337	1.516	0.005	668.	473.	-18.4	0.15	2.40
0.20	2.89	68.	10.1	300.4	2.0								
12	01	01	1	13	183.9	0.310	1.809	0.005	1139.	414.	-14.2	0.15	2.40
0.20	2.57	64.	10.1	302.5	2.0								
12	01	01	1	14	156.6	0.374	1.852	0.005	1434.	549.	-29.5	0.15	2.40
0.22	3.37	63.	10.1	303.1	2.0								
12	01	01	1	15	104.3	0.382	1.658	0.005	1546.	567.	-47.2	0.15	2.40
0.25	3.59	62.	10.1	302.5	2.0								
12	01	01	1	16	31.8	0.374	1.123	0.005	1573.	550.	-145.8	0.15	2.40
0.34	3.76	69.	10.1	300.9	2.0								
12	01	01	1	17	-23.3	0.276	-9.000	-9.000	-999.	354.	84.0	0.15	2.40
0.62	3.03	59.	10.1	297.5	2.0								
12	01	01	1	18	-21.5	0.229	-9.000	-9.000	-999.	264.	57.8	0.15	2.40
1.00	2.54	54.	10.1	295.4	2.0								
12	01	01	1	19	-19.3	0.204	-9.000	-9.000	-999.	221.	45.6	0.15	2.40
1.00	2.27	79.	10.1	292.0	2.0								
12	01	01	1	20	-20.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.15	2.40
1.00	2.42	79.	10.1	292.5	2.0								
12	01	01	1	21	-19.7	0.206	-9.000	-9.000	-999.	225.	46.9	0.15	2.40
1.00	2.30	95.	10.1	290.9	2.0								
12	01	01	1	22	-17.6	0.190	-9.000	-9.000	-999.	199.	39.8	0.15	2.40
1.00	2.13	78.	10.1	290.4	2.0								
12	01	01	1	23	-20.3	0.211	-9.000	-9.000	-999.	233.	49.0	0.15	2.40
1.00	2.35	52.	10.1	289.2	2.0								
12	01	01	1	24	-16.4	0.183	-9.000	-9.000	-999.	189.	37.0	0.15	2.40
1.00	2.06	75.	10.1	288.8	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	55.	2.93	288.2	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 10:36:53

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000131 , L0000132
 , L0000133 , L0000134 , L0000135 ,
 , L0000136 , L0000137 , L0000138 , L0000139 , L0000140
 , L0000141 , L0000142 , L0000143 ,
 , L0000144 , L0000145 , L0000146 , L0000147 , L0000148
 , L0000149 , L0000150 , L0000151 ,
 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC	X-COORD (M)
449368.02	3758763.53	0.04363	449371.89
3758763.53	0.04167		
449375.76	3758763.53	0.03987	449379.63
3758763.53	0.03822		
449383.50	3758763.53	0.03679	449387.37
3758763.53	0.03546		
449391.24	3758763.53	0.03422	449395.11
3758763.53	0.03306		
449398.98	3758763.53	0.03197	449402.85
3758763.53	0.03094		
449406.72	3758763.53	0.02998	449410.59
3758763.53	0.02909		
449414.46	3758763.53	0.02829	449418.33
3758763.53	0.02753		
449422.20	3758763.53	0.02680	449426.07
3758763.53	0.02611		
449429.94	3758763.53	0.02545	449433.81
3758763.53	0.02483		
449437.68	3758763.53	0.02423	449441.55
3758763.53	0.02367		
449445.42	3758763.53	0.02315	449368.02

3758777.57	0.04369		
449371.89	3758777.57	0.04164	449375.76
3758777.57	0.03976		
449379.63	3758777.57	0.03805	449383.50
3758777.57	0.03663		
449387.37	3758777.57	0.03530	449391.24
3758777.57	0.03408		
449395.11	3758777.57	0.03292	449398.98
3758777.57	0.03184		
449402.85	3758777.57	0.03082	449406.72
3758777.57	0.02986		
449410.59	3758777.57	0.02898	449414.46
3758777.57	0.02819		
449418.33	3758777.57	0.02743	449422.20
3758777.57	0.02671		
449426.07	3758777.57	0.02603	449429.94
3758777.57	0.02537		
449433.81	3758777.57	0.02475	449437.68
3758777.57	0.02416		
449441.55	3758777.57	0.02361	449445.42
3758777.57	0.02310		
449368.02	3758791.61	0.04393	449371.89
3758791.61	0.04196		
449375.76	3758791.61	0.04016	449379.63
3758791.61	0.03850		
449383.50	3758791.61	0.03704	449387.37
3758791.61	0.03569		
449391.24	3758791.61	0.03444	449395.11
3758791.61	0.03327		
449398.98	3758791.61	0.03217	449402.85
3758791.61	0.03113		
449406.72	3758791.61	0.03016	449410.59
3758791.61	0.02926		
449414.46	3758791.61	0.02845	449418.33
3758791.61	0.02768		
449422.20	3758791.61	0.02696	449426.07
3758791.61	0.02626		
449429.94	3758791.61	0.02560	449433.81
3758791.61	0.02497		
449437.68	3758791.61	0.02437	449441.55
3758791.61	0.02380		
449445.42	3758791.61	0.02328	449368.02
3758805.65	0.04415		
449371.89	3758805.65	0.04226	449375.76
3758805.65	0.04053		
449379.63	3758805.65	0.03893	449383.50
3758805.65	0.03745		
449387.37	3758805.65	0.03607	449391.24
3758805.65	0.03479		
449395.11	3758805.65	0.03360	449398.98

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3758805.65      0.03248
      449402.85   3758805.65      0.03143      449406.72
3758805.65      0.03044
      449410.59   3758805.65      0.02953      449414.46
3758805.65      0.02871
      449418.33   3758805.65      0.02793      449422.20
3758805.65      0.02719
      449426.07   3758805.65      0.02649      449429.94
3758805.65      0.02582
^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
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*** AERMET - VERSION 16216 ***   ***
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PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
          INCLUDING SOURCE(S): L0000131 , L0000132
, L0000133 , L0000134 , L0000135 ,
, L0000136 , L0000137 , L0000138 , L0000139 , L0000140
, L0000141 , L0000142 , L0000143 ,
, L0000144 , L0000145 , L0000146 , L0000147 , L0000148
, L0000149 , L0000150 , L0000151 ,
, L0000152 , L0000153 , L0000154 , L0000155 , L0000156
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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                                     ** CONC OF DPM      IN MICROGRAMS/M**3
                                     **
      X-COORD (M)  Y-COORD (M)      CONC              X-COORD (M)
      Y-COORD (M)  CONC
      -----
      449433.81   3758805.65      0.02519              449437.68
3758805.65      0.02458
      449441.55   3758805.65      0.02399              449445.42
3758805.65      0.02344
      449368.02   3758819.69      0.04420              449371.89
3758819.69      0.04232
      449375.76   3758819.69      0.04059              449379.63
3758819.69      0.03899
      449383.50   3758819.69      0.03751              449387.37
3758819.69      0.03613
      449391.24   3758819.69      0.03484              449395.11
3758819.69      0.03365

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449398.98	3758819.69	0.03253	449402.85
3758819.69	0.03148		
449406.72	3758819.69	0.03049	449410.59
3758819.69	0.02957		
449414.46	3758819.69	0.02875	449418.33
3758819.69	0.02797		
449422.20	3758819.69	0.02723	449426.07
3758819.69	0.02653		
449429.94	3758819.69	0.02586	449433.81
3758819.69	0.02522		
449437.68	3758819.69	0.02461	449441.55
3758819.69	0.02403		
449445.42	3758819.69	0.02347	449368.02
3758833.73	0.04420		
449371.89	3758833.73	0.04232	449375.76
3758833.73	0.04059		
449379.63	3758833.73	0.03899	449383.50
3758833.73	0.03751		
449387.37	3758833.73	0.03614	449391.24
3758833.73	0.03485		
449395.11	3758833.73	0.03366	449398.98
3758833.73	0.03254		
449402.85	3758833.73	0.03149	449406.72
3758833.73	0.03050		
449410.59	3758833.73	0.02959	449414.46
3758833.73	0.02877		
449418.33	3758833.73	0.02799	449422.20
3758833.73	0.02725		
449426.07	3758833.73	0.02655	449429.94
3758833.73	0.02588		
449433.81	3758833.73	0.02524	449437.68
3758833.73	0.02464		
449441.55	3758833.73	0.02405	449445.42
3758833.73	0.02350		
449368.02	3758847.77	0.04471	449371.89
3758847.77	0.04284		
449375.76	3758847.77	0.04112	449379.63
3758847.77	0.03953		
449383.50	3758847.77	0.03802	449387.37
3758847.77	0.03663		
449391.24	3758847.77	0.03532	449395.11
3758847.77	0.03410		
449398.98	3758847.77	0.03296	449402.85
3758847.77	0.03189		
449406.72	3758847.77	0.03089	449410.59
3758847.77	0.02995		
449414.46	3758847.77	0.02909	449418.33
3758847.77	0.02828		
449422.20	3758847.77	0.02751	449426.07
3758847.77	0.02678		

449429.94	3758847.77	0.02608	449433.81
3758847.77	0.02542		
449437.68	3758847.77	0.02478	449441.55
3758847.77	0.02419		
449445.42	3758847.77	0.02363	449368.02
3758861.81	0.04516		
449371.89	3758861.81	0.04342	449375.76
3758861.81	0.04172		
449379.63	3758861.81	0.04014	449383.50
3758861.81	0.03860		
449387.37	3758861.81	0.03718	449391.24
3758861.81	0.03585		
449395.11	3758861.81	0.03461	449398.98
3758861.81	0.03345		
449402.85	3758861.81	0.03236	449406.72
3758861.81	0.03133		
449410.59	3758861.81	0.03037	449414.46
3758861.81	0.02946		

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*** AERMET - VERSION 16216 *** ***
*** 10:36:53

PAGE 14

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000131 , L0000132
, L0000133 , L0000134 , L0000135 ,
L0000136 , L0000137 , L0000138 , L0000139 , L0000140
, L0000141 , L0000142 , L0000143 ,
L0000144 , L0000145 , L0000146 , L0000147 , L0000148
, L0000149 , L0000150 , L0000151 ,
L0000152 , L0000153 , L0000154 , L0000155 , L0000156
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449418.33	3758861.81	0.02861	449422.20
3758861.81	0.02780		
449426.07	3758861.81	0.02704	449429.94

3758861.81	0.02631		
449433.81	3758861.81	0.02562	449437.68
3758861.81	0.02496		
449441.55	3758861.81	0.02435	449445.42
3758861.81	0.02378		
449368.02	3758875.85	0.04548	449371.89
3758875.85	0.04364		
449375.76	3758875.85	0.04194	449379.63
3758875.85	0.04037		
449383.50	3758875.85	0.03883	449387.37
3758875.85	0.03749		
449391.24	3758875.85	0.03615	449395.11
3758875.85	0.03490		
449398.98	3758875.85	0.03373	449402.85
3758875.85	0.03263		
449406.72	3758875.85	0.03160	449410.59
3758875.85	0.03062		
449414.46	3758875.85	0.02970	449418.33
3758875.85	0.02884		
449422.20	3758875.85	0.02801	449426.07
3758875.85	0.02723		
449429.94	3758875.85	0.02649	449433.81
3758875.85	0.02578		
449437.68	3758875.85	0.02512	449441.55
3758875.85	0.02450		
449445.42	3758875.85	0.02393	449368.02
3758889.89	0.04564		
449371.89	3758889.89	0.04380	449375.76
3758889.89	0.04210		
449379.63	3758889.89	0.04057	449383.50
3758889.89	0.03903		
449387.37	3758889.89	0.03760	449391.24
3758889.89	0.03635		
449395.11	3758889.89	0.03509	449398.98
3758889.89	0.03392		
449402.85	3758889.89	0.03282	449406.72
3758889.89	0.03178		
449410.59	3758889.89	0.03080	449414.46
3758889.89	0.02987		
449418.33	3758889.89	0.02900	449422.20
3758889.89	0.02818		
449426.07	3758889.89	0.02739	449429.94
3758889.89	0.02665		
449433.81	3758889.89	0.02594	449437.68
3758889.89	0.02526		
449441.55	3758889.89	0.02464	449445.42
3758889.89	0.02407		
449368.02	3758903.93	0.04595	449371.89
3758903.93	0.04412		
449375.76	3758903.93	0.04243	449379.63

3758903.93 0.04085
449383.50 3758903.93 0.03931 449387.37
3758903.93 0.03787
449391.24 3758903.93 0.03658 449395.11
3758903.93 0.03532
449398.98 3758903.93 0.03414 449402.85
3758903.93 0.03312
449406.72 3758903.93 0.03207 449410.59
3758903.93 0.03108
449414.46 3758903.93 0.03013 449418.33
3758903.93 0.02924
449422.20 3758903.93 0.02839 449426.07
3758903.93 0.02759
449429.94 3758903.93 0.02683 449433.81
3758903.93 0.02610
449437.68 3758903.93 0.02541 449441.55
3758903.93 0.02478
449445.42 3758903.93 0.02421 449368.02
3758917.97 0.04630
449371.89 3758917.97 0.04447 449375.76
3758917.97 0.04279
449379.63 3758917.97 0.04121 449383.50
3758917.97 0.03968
449387.37 3758917.97 0.03825 449391.24
3758917.97 0.03691
449395.11 3758917.97 0.03565 449398.98

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*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000131 , L0000132
, L0000133 , L0000134 , L0000135 ,
, L0000136 , L0000137 , L0000138 , L0000139 , L0000140
, L0000141 , L0000142 , L0000143 ,
, L0000144 , L0000145 , L0000146 , L0000147 , L0000148
, L0000149 , L0000150 , L0000151 ,
, L0000152 , L0000153 , L0000154 , L0000155 , L0000156
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449402.85	3758917.97	0.03335	449406.72
3758917.97	0.03236		
449410.59	3758917.97	0.03135	449414.46
3758917.97	0.03046		
449418.33	3758917.97	0.02953	449422.20
3758917.97	0.02865		
449426.07	3758917.97	0.02782	449429.94
3758917.97	0.02703		
449433.81	3758917.97	0.02627	449437.68
3758917.97	0.02556		
449441.55	3758917.97	0.02492	449445.42
3758917.97	0.02434		
449368.02	3758932.01	0.04656	449371.89
3758932.01	0.04471		
449375.76	3758932.01	0.04301	449379.63
3758932.01	0.04143		
449383.50	3758932.01	0.03995	449387.37
3758932.01	0.03851		
449391.24	3758932.01	0.03717	449395.11
3758932.01	0.03592		
449398.98	3758932.01	0.03473	449402.85
3758932.01	0.03362		
449406.72	3758932.01	0.03257	449410.59
3758932.01	0.03156		
449414.46	3758932.01	0.03062	449418.33
3758932.01	0.02968		
449422.20	3758932.01	0.02887	449426.07
3758932.01	0.02802		
449429.94	3758932.01	0.02721	449433.81
3758932.01	0.02644		
449437.68	3758932.01	0.02571	449441.55
3758932.01	0.02505		
449445.42	3758932.01	0.02446	449368.02
3758946.05	0.04677		
449371.89	3758946.05	0.04491	449375.76
3758946.05	0.04318		
449379.63	3758946.05	0.04159	449383.50
3758946.05	0.04006		
449387.37	3758946.05	0.03863	449391.24
3758946.05	0.03734		
449395.11	3758946.05	0.03607	449398.98
3758946.05	0.03489		
449402.85	3758946.05	0.03377	449406.72
3758946.05	0.03272		

449410.59	3758946.05	0.03171	449414.46
3758946.05	0.03073		
449418.33	3758946.05	0.02984	449422.20
3758946.05	0.02894		
449426.07	3758946.05	0.02817	449429.94
3758946.05	0.02736		
449433.81	3758946.05	0.02658	449437.68
3758946.05	0.02585		
449441.55	3758946.05	0.02518	449445.42
3758946.05	0.02456		
449368.02	3758960.09	0.04695	449371.89
3758960.09	0.04507		
449375.76	3758960.09	0.04333	449379.63
3758960.09	0.04172		
449383.50	3758960.09	0.04020	449387.37
3758960.09	0.03876		
449391.24	3758960.09	0.03743	449395.11
3758960.09	0.03616		
449398.98	3758960.09	0.03503	449402.85
3758960.09	0.03392		
449406.72	3758960.09	0.03287	449410.59
3758960.09	0.03186		
449414.46	3758960.09	0.03088	449418.33
3758960.09	0.02994		
449422.20	3758960.09	0.02910	449426.07
3758960.09	0.02824		
449429.94	3758960.09	0.02743	449433.81
3758960.09	0.02673		
449437.68	3758960.09	0.02599	449441.55
3758960.09	0.02530		
449445.42	3758960.09	0.02466	449368.02
3758974.13	0.04704		
449371.89	3758974.13	0.04515	449375.76
3758974.13	0.04341		
449379.63	3758974.13	0.04180	449383.50
3758974.13	0.04027		

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^ *** AERMOD - VERSION 19191 ***    *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
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*** AERMET - VERSION 16216 ***    ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
           INCLUDING SOURCE(S): L0000131 , L0000132
, L0000133 , L0000134 , L0000135 ,
           L0000136 , L0000137 , L0000138 , L0000139 , L0000140
, L0000141 , L0000142 , L0000143 ,

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, L0000149 , L0000144 , L0000145 , L0000146 , L0000147 , L0000148
 , L0000150 , L0000151 ,
 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

**		** CONC OF DPM	IN MICROGRAMS/M**3
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449387.37	3758974.13	0.03885	449391.24
3758974.13	0.03752		
449395.11	3758974.13	0.03627	449398.98
3758974.13	0.03509		
449402.85	3758974.13	0.03404	449406.72
3758974.13	0.03300		
449410.59	3758974.13	0.03201	449414.46
3758974.13	0.03102		
449418.33	3758974.13	0.03009	449422.20
3758974.13	0.02920		
449426.07	3758974.13	0.02835	449429.94
3758974.13	0.02758		
449433.81	3758974.13	0.02680	449437.68
3758974.13	0.02613		
449441.55	3758974.13	0.02543	449445.42
3758974.13	0.02477		
449368.02	3758988.17	0.04711	449371.89
3758988.17	0.04522		
449375.76	3758988.17	0.04348	449379.63
3758988.17	0.04186		
449383.50	3758988.17	0.04035	449387.37
3758988.17	0.03893		
449391.24	3758988.17	0.03760	449395.11
3758988.17	0.03636		
449398.98	3758988.17	0.03520	449402.85
3758988.17	0.03410		
449406.72	3758988.17	0.03307	449410.59
3758988.17	0.03213		
449414.46	3758988.17	0.03115	449418.33
3758988.17	0.03022		
449422.20	3758988.17	0.02933	449426.07
3758988.17	0.02848		
449429.94	3758988.17	0.02767	449433.81
3758988.17	0.02694		
449437.68	3758988.17	0.02620	449441.55

3758988.17	0.02556			
449445.42	3758988.17	0.02488		449368.02
3759002.21	0.04708			
449371.89	3759002.21	0.04518		449375.76
3759002.21	0.04343			
449379.63	3759002.21	0.04182		449383.50
3759002.21	0.04039			
449387.37	3759002.21	0.03901		449391.24
3759002.21	0.03770			
449395.11	3759002.21	0.03645		449398.98
3759002.21	0.03527			
449402.85	3759002.21	0.03416		449406.72
3759002.21	0.03311			
449410.59	3759002.21	0.03216		449414.46
3759002.21	0.03119			
449418.33	3759002.21	0.03027		449422.20
3759002.21	0.02940			
449426.07	3759002.21	0.02856		449429.94
3759002.21	0.02777			
449433.81	3759002.21	0.02701		449437.68
3759002.21	0.02633			
449441.55	3759002.21	0.02563		449445.42
3759002.21	0.02501			
449368.02	3759016.25	0.04709		449371.89
3759016.25	0.04519			
449375.76	3759016.25	0.04345		449379.63
3759016.25	0.04183			
449383.50	3759016.25	0.04036		449387.37
3759016.25	0.03903			
449391.24	3759016.25	0.03774		449395.11
3759016.25	0.03652			
449398.98	3759016.25	0.03533		449402.85
3759016.25	0.03421			
449406.72	3759016.25	0.03315		449410.59
3759016.25	0.03218			
449414.46	3759016.25	0.03123		449418.33
3759016.25	0.03032			
449422.20	3759016.25	0.02946		449426.07
3759016.25	0.02864			
449429.94	3759016.25	0.02786		449433.81
3759016.25	0.02712			
449437.68	3759016.25	0.02641		449441.55
3759016.25	0.02575			
449445.42	3759016.25	0.02507		449368.02
3759030.29	0.04721			

▲ *** AERMOD - VERSION 19191 ***

 *** AERMET - VERSION 16216 ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000131 , L0000132
 , L0000133 , L0000134 , L0000135 ,
 , L0000136 , L0000137 , L0000138 , L0000139 , L0000140
 , L0000141 , L0000142 , L0000143 ,
 , L0000144 , L0000145 , L0000146 , L0000147 , L0000148
 , L0000149 , L0000150 , L0000151 ,
 , L0000152 , L0000153 , L0000154 , L0000155 , L0000156
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

		** CONC OF DPM	IN MICROGRAMS/M**3
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449371.89	3759030.29	0.04531	449375.76
3759030.29	0.04355		
449379.63	3759030.29	0.04193	449383.50
3759030.29	0.04049		
449387.37	3759030.29	0.03910	449391.24
3759030.29	0.03774		
449395.11	3759030.29	0.03646	449398.98
3759030.29	0.03526		
449402.85	3759030.29	0.03412	449406.72
3759030.29	0.03308		
449410.59	3759030.29	0.03207	449414.46
3759030.29	0.03113		
449418.33	3759030.29	0.03024	449422.20
3759030.29	0.02939		
449426.07	3759030.29	0.02858	449429.94
3759030.29	0.02782		
449433.81	3759030.29	0.02709	449437.68
3759030.29	0.02640		
449441.55	3759030.29	0.02575	449445.42
3759030.29	0.02506		
449368.02	3759044.33	0.04736	449371.89
3759044.33	0.04545		
449375.76	3759044.33	0.04368	449379.63
3759044.33	0.04205		
449383.50	3759044.33	0.04049	449387.37
3759044.33	0.03903		

449391.24	3759044.33	0.03765	449395.11
3759044.33	0.03635		
449398.98	3759044.33	0.03517	449402.85
3759044.33	0.03402		
449406.72	3759044.33	0.03294	449410.59
3759044.33	0.03193		
449414.46	3759044.33	0.03101	449418.33
3759044.33	0.03013		
449422.20	3759044.33	0.02931	449426.07
3759044.33	0.02852		
449429.94	3759044.33	0.02777	449433.81
3759044.33	0.02706		
449437.68	3759044.33	0.02639	449441.55
3759044.33	0.02574		
449445.42	3759044.33	0.02505	

```

^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
                               ***   11/11/21
*** AERMET - VERSION 16216 ***   ***
                               ***   10:36:53

```

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS ***

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

**

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

ALL	1ST HIGHEST VALUE IS	0.04736 AT (	449368.02, 3759044.33,
198.07,	198.07, 0.00) DC		
	2ND HIGHEST VALUE IS	0.04721 AT (	449368.02, 3759030.29,
198.53,	198.53, 0.00) DC		
	3RD HIGHEST VALUE IS	0.04711 AT (	449368.02, 3758988.17,
198.06,	198.06, 0.00) DC		
	4TH HIGHEST VALUE IS	0.04709 AT (	449368.02, 3759016.25,
199.00,	199.00, 0.00) DC		
	5TH HIGHEST VALUE IS	0.04708 AT (	449368.02, 3759002.21,
198.53,	198.53, 0.00) DC		
	6TH HIGHEST VALUE IS	0.04704 AT (	449368.02, 3758974.13,
198.00,	198.00, 0.00) DC		

198.00, 7TH HIGHEST VALUE IS 0.04695 AT (449368.02, 3758960.09,
198.00, 198.00, 0.00) DC
197.66, 8TH HIGHEST VALUE IS 0.04677 AT (449368.02, 3758946.05,
197.66, 197.66, 0.00) DC
197.19, 9TH HIGHEST VALUE IS 0.04656 AT (449368.02, 3758932.01,
197.19, 197.19, 0.00) DC
196.55, 10TH HIGHEST VALUE IS 0.04630 AT (449368.02, 3758917.97,
196.55, 196.55, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\DPM\DPM.ISC
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1638 Informational Message(s)
A Total of 43848 Hours Were Processed
A Total of 1039 Calm Hours Identified
A Total of 599 Missing Hours Identified (1.37 Percent)

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ADI
**
*****
**
**
*****
** AERMOD CONTROL PATHWAY
*****
**
**
CO STARTING
  TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\DSLTOG\DSLTOG.ISC
  MODELOPT DFAULT CONC
  AVERTIME 1 8
  URBANOPT 2189641
  POLLUTID TOGDSL
  RUNORNOT RUN
  ERRORFIL DSLTOG.ERR
CO FINISHED
**
*****
** AERMOD SOURCE PATHWAY
*****
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** -----
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00077
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40

```


**

LOCATION	L0000001	VOLUME	449288.571	3758396.923	188.77
LOCATION	L0000002	VOLUME	449288.969	3758442.921	189.29
LOCATION	L0000003	VOLUME	449289.367	3758488.920	189.82
LOCATION	L0000004	VOLUME	449289.765	3758534.918	190.34
LOCATION	L0000005	VOLUME	449290.163	3758580.916	190.86
LOCATION	L0000006	VOLUME	449290.561	3758626.914	191.38
LOCATION	L0000007	VOLUME	449290.958	3758672.913	191.91
LOCATION	L0000008	VOLUME	449291.356	3758718.911	192.43
LOCATION	L0000009	VOLUME	449291.754	3758764.909	192.95
LOCATION	L0000010	VOLUME	449292.152	3758810.908	193.47
LOCATION	L0000011	VOLUME	449292.550	3758856.906	194.00
LOCATION	L0000012	VOLUME	449292.948	3758902.904	194.52
LOCATION	L0000013	VOLUME	449293.346	3758948.902	195.04
LOCATION	L0000014	VOLUME	449293.744	3758994.901	195.56
LOCATION	L0000015	VOLUME	449294.142	3759040.899	196.09
LOCATION	L0000016	VOLUME	449294.540	3759086.897	196.61
LOCATION	L0000017	VOLUME	449294.938	3759132.895	197.13
LOCATION	L0000018	VOLUME	449295.335	3759178.894	197.65
LOCATION	L0000019	VOLUME	449295.733	3759224.892	198.18
LOCATION	L0000020	VOLUME	449296.131	3759270.890	198.70
LOCATION	L0000021	VOLUME	449296.529	3759316.889	199.22
LOCATION	L0000022	VOLUME	449296.927	3759362.887	199.74
LOCATION	L0000023	VOLUME	449297.325	3759408.885	200.27
LOCATION	L0000024	VOLUME	449297.723	3759454.883	200.79
LOCATION	L0000025	VOLUME	449298.121	3759500.882	201.31
LOCATION	L0000026	VOLUME	449298.519	3759546.880	201.83

** END OF LINE VOLUME SOURCE ID = SLINE1

** SOURCE PARAMETERS **

** LINE VOLUME SOURCE ID = SLINE1

SRCPARAM	L0000001	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000002	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000003	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000004	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000005	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000006	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000007	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000008	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000009	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000010	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000011	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000012	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000013	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000014	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000015	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000016	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000017	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000018	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000019	0.0000296154	3.49	21.40	3.25
SRCPARAM	L0000020	0.0000296154	3.49	21.40	3.25

SRCPARAM L000021	0.0000296154	3.49	21.40	3.25
SRCPARAM L000022	0.0000296154	3.49	21.40	3.25
SRCPARAM L000023	0.0000296154	3.49	21.40	3.25
SRCPARAM L000024	0.0000296154	3.49	21.40	3.25
SRCPARAM L000025	0.0000296154	3.49	21.40	3.25
SRCPARAM L000026	0.0000296154	3.49	21.40	3.25

**

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD RECEPTOR PATHWAY

**

**

RE STARTING
INCLUDED DSLTOG.ROU

RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

**

ME STARTING
SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL
SURFDATA 3171 2012
UAIRDATA 3190 2012
PROFBASE 245.0 METERS

ME FINISHED

**

** AERMOD OUTPUT PATHWAY

**

**

OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 1 1ST
RECTABLE 8 1ST

** AUTO-GENERATED PLOTFILES

PLOTFILE 1 ALL 1ST DSLTOG.AD\01H1GALL.PLT 31
PLOTFILE 8 ALL 1ST DSLTOG.AD\08H1GALL.PLT 32
SUMMFILE DSLTOG.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 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
 0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 *** ***
 *** 11:28:21

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; 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: TOGDSL**

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

****This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s)**

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 26 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 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 Highest Short Term Values by Receptor (RECTABLE
Keyword)

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

****Misc. Inputs:** Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;

L0000009	0	0.29615E-04	449291.8	3758764.9	193.0	3.49	21.40
3.25 YES							
L0000010	0	0.29615E-04	449292.2	3758810.9	193.5	3.49	21.40
3.25 YES							
L0000011	0	0.29615E-04	449292.5	3758856.9	194.0	3.49	21.40
3.25 YES							
L0000012	0	0.29615E-04	449292.9	3758902.9	194.5	3.49	21.40
3.25 YES							
L0000013	0	0.29615E-04	449293.3	3758948.9	195.0	3.49	21.40
3.25 YES							
L0000014	0	0.29615E-04	449293.7	3758994.9	195.6	3.49	21.40
3.25 YES							
L0000015	0	0.29615E-04	449294.1	3759040.9	196.1	3.49	21.40
3.25 YES							
L0000016	0	0.29615E-04	449294.5	3759086.9	196.6	3.49	21.40
3.25 YES							
L0000017	0	0.29615E-04	449294.9	3759132.9	197.1	3.49	21.40
3.25 YES							
L0000018	0	0.29615E-04	449295.3	3759178.9	197.7	3.49	21.40
3.25 YES							
L0000019	0	0.29615E-04	449295.7	3759224.9	198.2	3.49	21.40
3.25 YES							
L0000020	0	0.29615E-04	449296.1	3759270.9	198.7	3.49	21.40
3.25 YES							
L0000021	0	0.29615E-04	449296.5	3759316.9	199.2	3.49	21.40
3.25 YES							
L0000022	0	0.29615E-04	449296.9	3759362.9	199.7	3.49	21.40
3.25 YES							
L0000023	0	0.29615E-04	449297.3	3759408.9	200.3	3.49	21.40
3.25 YES							
L0000024	0	0.29615E-04	449297.7	3759454.9	200.8	3.49	21.40
3.25 YES							
L0000025	0	0.29615E-04	449298.1	3759500.9	201.3	3.49	21.40
3.25 YES							
L0000026	0	0.29615E-04	449298.5	3759546.9	201.8	3.49	21.40
3.25 YES							

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

ALL L000001 , L000002 , L000003 , L000004 , L000005 ,
 L000006 , L000007 , L000008 ,
 L000014 L000009 , L000010 , L000011 , L000012 , L000013 ,
 , L000015 , L000016 ,
 L000022 L000017 , L000018 , L000019 , L000020 , L000021 ,
 , L000023 , L000024 ,

L000025 , L000026 ,
 *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L000005	2189641.	L000001 , L000002 , L000003 , L000004 ,
L000008	, L000006	, L000007 ,
L000014	, L000009	, L000010 , L000011 , L000012 , L000013 ,
	, L000015	, L000016 ,
L000022	, L000017	, L000018 , L000019 , L000020 , L000021 ,
	, L000023	, L000024 ,

L000025 , L000026 ,
 *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449368.0, 3758763.5, 192.6, 195.0, 0.0); (449371.9,
3758763.5, 192.2, 195.0, 0.0);
(449375.8, 3758763.5, 191.8, 195.0, 0.0); (449379.6,
3758763.5, 191.4, 195.0, 0.0);
(449383.5, 3758763.5, 191.2, 195.0, 0.0); (449387.4,
3758763.5, 190.9, 195.0, 0.0);
(449391.2, 3758763.5, 190.6, 190.6, 0.0); (449395.1,
3758763.5, 190.4, 190.4, 0.0);
(449399.0, 3758763.5, 190.1, 190.1, 0.0); (449402.8,
3758763.5, 189.9, 189.9, 0.0);
(449406.7, 3758763.5, 189.6, 189.6, 0.0); (449410.6,
3758763.5, 189.4, 189.4, 0.0);
(449414.5, 3758763.5, 189.3, 189.3, 0.0); (449418.3,
3758763.5, 189.1, 189.1, 0.0);
(449422.2, 3758763.5, 189.0, 189.0, 0.0); (449426.1,
3758763.5, 188.9, 188.9, 0.0);
(449429.9, 3758763.5, 188.7, 188.7, 0.0); (449433.8,
3758763.5, 188.6, 188.6, 0.0);
(449437.7, 3758763.5, 188.5, 188.5, 0.0); (449441.5,
3758763.5, 188.4, 188.4, 0.0);
(449445.4, 3758763.5, 188.3, 188.3, 0.0); (449368.0,
3758777.6, 192.5, 195.0, 0.0);
(449371.9, 3758777.6, 192.0, 195.0, 0.0); (449375.8,
3758777.6, 191.5, 195.0, 0.0);
(449379.6, 3758777.6, 191.0, 195.0, 0.0); (449383.5,
3758777.6, 190.8, 195.0, 0.0);
(449387.4, 3758777.6, 190.5, 195.0, 0.0); (449391.2,
3758777.6, 190.3, 195.0, 0.0);
(449395.1, 3758777.6, 190.0, 195.0, 0.0); (449399.0,
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(449402.8, 3758777.6, 189.5, 195.0, 0.0); (449406.7,
3758777.6, 189.2, 195.0, 0.0);
(449410.6, 3758777.6, 189.0, 189.0, 0.0); (449414.5,
3758777.6, 188.9, 188.9, 0.0);
(449418.3, 3758777.6, 188.8, 188.8, 0.0); (449422.2,
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(449433.8, 3758777.6, 188.2, 188.2, 0.0); (449437.7,
3758777.6, 188.1, 188.1, 0.0);
(449441.5, 3758777.6, 188.0, 188.0, 0.0); (449445.4,
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 3758791.6, 189.5, 189.5, 0.0);
 (449414.5, 3758791.6, 189.3, 189.3, 0.0); (449418.3,
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 (449422.2, 3758791.6, 189.1, 189.1, 0.0); (449426.1,
 3758791.6, 189.0, 189.0, 0.0);
 (449429.9, 3758791.6, 188.8, 188.8, 0.0); (449433.8,
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 (449437.7, 3758791.6, 188.6, 188.6, 0.0); (449441.5,
 3758791.6, 188.5, 188.5, 0.0);
 (449445.4, 3758791.6, 188.4, 188.4, 0.0); (449368.0,
 3758805.6, 192.8, 192.8, 0.0);
 (449371.9, 3758805.6, 192.5, 192.5, 0.0); (449375.8,
 3758805.6, 192.2, 192.2, 0.0);
 (449379.6, 3758805.6, 192.0, 192.0, 0.0); (449383.5,
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 (449387.4, 3758805.6, 191.5, 191.5, 0.0); (449391.2,
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 (449395.1, 3758805.6, 190.9, 190.9, 0.0); (449399.0,
 3758805.6, 190.7, 190.7, 0.0);
 (449402.8, 3758805.6, 190.4, 190.4, 0.0); (449406.7,
 3758805.6, 190.2, 190.2, 0.0);
 (449410.6, 3758805.6, 189.9, 189.9, 0.0); (449414.5,
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 (449418.3, 3758805.6, 189.7, 189.7, 0.0); (449422.2,
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 (449426.1, 3758805.6, 189.4, 189.4, 0.0); (449429.9,
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 (449433.8, 3758805.6, 189.2, 189.2, 0.0); (449437.7,
 3758805.6, 189.0, 189.0, 0.0);
 (449441.5, 3758805.6, 188.9, 188.9, 0.0); (449445.4,
 3758805.6, 188.8, 188.8, 0.0);
 (449368.0, 3758819.7, 192.8, 192.8, 0.0); (449371.9,
 3758819.7, 192.5, 192.5, 0.0);
 (449375.8, 3758819.7, 192.2, 192.2, 0.0); (449379.6,
 3758819.7, 192.0, 192.0, 0.0);
 (449383.5, 3758819.7, 191.7, 191.7, 0.0); (449387.4,
 3758819.7, 191.5, 191.5, 0.0);

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\DSLTOG\DSLTOG.ISC *** 11/11/21
 *** AERMET - VERSION 16216 ***
 *** 11:28:21

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(449391.2, 3758819.7, 191.2, 191.2, 0.0); (449395.1,
3758819.7, 191.0, 191.0, 0.0);
(449399.0, 3758819.7, 190.7, 190.7, 0.0); (449402.8,
3758819.7, 190.4, 190.4, 0.0);
(449406.7, 3758819.7, 190.2, 190.2, 0.0); (449410.6,
3758819.7, 190.0, 190.0, 0.0);
(449414.5, 3758819.7, 189.8, 189.8, 0.0); (449418.3,
3758819.7, 189.7, 189.7, 0.0);
(449422.2, 3758819.7, 189.6, 189.6, 0.0); (449426.1,
3758819.7, 189.5, 189.5, 0.0);
(449429.9, 3758819.7, 189.3, 189.3, 0.0); (449433.8,
3758819.7, 189.2, 189.2, 0.0);
(449437.7, 3758819.7, 189.1, 189.1, 0.0); (449441.5,
3758819.7, 188.9, 188.9, 0.0);
(449445.4, 3758819.7, 188.8, 188.8, 0.0); (449368.0,
3758833.7, 192.8, 192.8, 0.0);
(449371.9, 3758833.7, 192.5, 192.5, 0.0); (449375.8,
3758833.7, 192.2, 192.2, 0.0);
(449379.6, 3758833.7, 192.0, 192.0, 0.0); (449383.5,
3758833.7, 191.7, 191.7, 0.0);
(449387.4, 3758833.7, 191.5, 191.5, 0.0); (449391.2,
3758833.7, 191.2, 191.2, 0.0);
(449395.1, 3758833.7, 191.0, 191.0, 0.0); (449399.0,
3758833.7, 190.7, 190.7, 0.0);
(449402.8, 3758833.7, 190.4, 190.4, 0.0); (449406.7,
3758833.7, 190.2, 190.2, 0.0);
(449410.6, 3758833.7, 190.0, 190.0, 0.0); (449414.5,
3758833.7, 189.8, 189.8, 0.0);
(449418.3, 3758833.7, 189.7, 189.7, 0.0); (449422.2,
3758833.7, 189.6, 189.6, 0.0);
(449426.1, 3758833.7, 189.5, 189.5, 0.0); (449429.9,
3758833.7, 189.3, 189.3, 0.0);
(449433.8, 3758833.7, 189.2, 189.2, 0.0); (449437.7,
3758833.7, 189.1, 189.1, 0.0);
(449441.5, 3758833.7, 188.9, 188.9, 0.0); (449445.4,
3758833.7, 188.8, 188.8, 0.0);
(449368.0, 3758847.8, 193.4, 193.4, 0.0); (449371.9,
3758847.8, 193.2, 193.2, 0.0);
(449375.8, 3758847.8, 193.0, 193.0, 0.0); (449379.6,
3758847.8, 192.8, 192.8, 0.0);
(449383.5, 3758847.8, 192.5, 192.5, 0.0); (449387.4,
3758847.8, 192.2, 192.2, 0.0);
(449391.2, 3758847.8, 192.0, 192.0, 0.0); (449395.1,
3758847.8, 191.7, 191.7, 0.0);
(449399.0, 3758847.8, 191.5, 191.5, 0.0); (449402.8,
3758847.8, 191.2, 191.2, 0.0);
(449406.7, 3758847.8, 191.0, 191.0, 0.0); (449410.6,

3758847.8, 190.7, 190.7, 0.0);
 (449414.5, 3758847.8, 190.5, 190.5, 0.0); (449418.3,
 3758847.8, 190.4, 190.4, 0.0);
 (449422.2, 3758847.8, 190.2, 190.2, 0.0); (449426.1,
 3758847.8, 190.0, 190.0, 0.0);
 (449429.9, 3758847.8, 189.8, 189.8, 0.0); (449433.8,
 3758847.8, 189.6, 189.6, 0.0);
 (449437.7, 3758847.8, 189.5, 189.5, 0.0); (449441.5,
 3758847.8, 189.3, 189.3, 0.0);
 (449445.4, 3758847.8, 189.2, 189.2, 0.0); (449368.0,
 3758861.8, 194.1, 194.1, 0.0);
 (449371.9, 3758861.8, 194.0, 194.0, 0.0); (449375.8,
 3758861.8, 193.8, 193.8, 0.0);
 (449379.6, 3758861.8, 193.7, 193.7, 0.0); (449383.5,
 3758861.8, 193.4, 193.4, 0.0);
 (449387.4, 3758861.8, 193.2, 193.2, 0.0); (449391.2,
 3758861.8, 192.9, 192.9, 0.0);
 (449395.1, 3758861.8, 192.7, 192.7, 0.0); (449399.0,
 3758861.8, 192.4, 192.4, 0.0);
 (449402.8, 3758861.8, 192.1, 192.1, 0.0); (449406.7,
 3758861.8, 191.9, 191.9, 0.0);
 (449410.6, 3758861.8, 191.6, 191.6, 0.0); (449414.5,
 3758861.8, 191.4, 191.4, 0.0);
 (449418.3, 3758861.8, 191.2, 191.2, 0.0); (449422.2,
 3758861.8, 190.9, 190.9, 0.0);
 (449426.1, 3758861.8, 190.7, 190.7, 0.0); (449429.9,
 3758861.8, 190.4, 190.4, 0.0);
 (449433.8, 3758861.8, 190.2, 190.2, 0.0); (449437.7,
 3758861.8, 190.0, 190.0, 0.0);
 (449441.5, 3758861.8, 189.8, 189.8, 0.0); (449445.4,
 3758861.8, 189.7, 189.7, 0.0);
 (449368.0, 3758875.8, 194.7, 194.7, 0.0); (449371.9,
 3758875.8, 194.6, 194.6, 0.0);
 (449375.8, 3758875.8, 194.4, 194.4, 0.0); (449379.6,
 3758875.8, 194.3, 194.3, 0.0);
 (449383.5, 3758875.8, 194.1, 194.1, 0.0); (449387.4,
 3758875.8, 193.8, 193.8, 0.0);
 (449391.2, 3758875.8, 193.5, 193.5, 0.0); (449395.1,
 3758875.8, 193.3, 193.3, 0.0);
 (449399.0, 3758875.8, 193.0, 193.0, 0.0); (449402.8,
 3758875.8, 192.8, 192.8, 0.0);
 (449406.7, 3758875.8, 192.5, 192.5, 0.0); (449410.6,
 3758875.8, 192.2, 192.2, 0.0);

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\DSLTOG\DSLTOG.ISC *** 11/11/21

*** AERMET - VERSION 16216 ***
 *** 11:28:21

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

(449414.5, 3758875.8, 192.0, 192.0, 0.0);	(449418.3, 3758875.8, 191.7, 191.7, 0.0);
(449422.2, 3758875.8, 191.5, 191.5, 0.0);	(449426.1, 3758875.8, 191.2, 191.2, 0.0);
(449429.9, 3758875.8, 191.0, 191.0, 0.0);	(449433.8, 3758875.8, 190.7, 190.7, 0.0);
(449437.7, 3758875.8, 190.4, 190.4, 0.0);	(449441.5, 3758875.8, 190.2, 190.2, 0.0);
(449445.4, 3758875.8, 190.1, 190.1, 0.0);	(449368.0, 3758889.9, 195.2, 195.2, 0.0);
(449371.9, 3758889.9, 195.0, 195.0, 0.0);	(449375.8, 3758889.9, 194.9, 194.9, 0.0);
(449379.6, 3758889.9, 194.8, 194.8, 0.0);	(449383.5, 3758889.9, 194.5, 194.5, 0.0);
(449387.4, 3758889.9, 194.3, 194.3, 0.0);	(449391.2, 3758889.9, 194.0, 194.0, 0.0);
(449395.1, 3758889.9, 193.7, 193.7, 0.0);	(449399.0, 3758889.9, 193.5, 193.5, 0.0);
(449402.8, 3758889.9, 193.2, 193.2, 0.0);	(449406.7, 3758889.9, 193.0, 193.0, 0.0);
(449410.6, 3758889.9, 192.7, 192.7, 0.0);	(449414.5, 3758889.9, 192.5, 192.5, 0.0);
(449418.3, 3758889.9, 192.2, 192.2, 0.0);	(449422.2, 3758889.9, 191.9, 191.9, 0.0);
(449426.1, 3758889.9, 191.7, 191.7, 0.0);	(449429.9, 3758889.9, 191.4, 191.4, 0.0);
(449433.8, 3758889.9, 191.2, 191.2, 0.0);	(449437.7, 3758889.9, 190.9, 190.9, 0.0);
(449441.5, 3758889.9, 190.7, 190.7, 0.0);	(449445.4, 3758889.9, 190.6, 190.6, 0.0);
(449368.0, 3758903.9, 195.8, 195.8, 0.0);	(449371.9, 3758903.9, 195.7, 195.7, 0.0);
(449375.8, 3758903.9, 195.6, 195.6, 0.0);	(449379.6, 3758903.9, 195.5, 195.5, 0.0);
(449383.5, 3758903.9, 195.2, 195.2, 0.0);	(449387.4, 3758903.9, 195.0, 195.0, 0.0);
(449391.2, 3758903.9, 194.7, 194.7, 0.0);	(449395.1, 3758903.9, 194.5, 194.5, 0.0);
(449399.0, 3758903.9, 194.2, 194.2, 0.0);	(449402.8, 3758903.9, 194.0, 194.0, 0.0);
(449406.7, 3758903.9, 193.7, 193.7, 0.0);	(449410.6, 3758903.9, 193.4, 193.4, 0.0);
(449414.5, 3758903.9, 193.1, 193.1, 0.0);	(449418.3, 3758903.9, 192.8, 192.8, 0.0);
(449422.2, 3758903.9, 192.6, 192.6, 0.0);	(449426.1, 3758903.9, 192.6, 192.6, 0.0);

3758903.9, 192.3, 192.3, 0.0);
 (449429.9, 3758903.9, 192.0, 192.0, 0.0); (449433.8,
 3758903.9, 191.7, 195.0, 0.0);
 (449437.7, 3758903.9, 191.4, 195.0, 0.0); (449441.5,
 3758903.9, 191.2, 191.2, 0.0);
 (449445.4, 3758903.9, 191.1, 191.1, 0.0); (449368.0,
 3758918.0, 196.6, 196.6, 0.0);
 (449371.9, 3758918.0, 196.5, 196.5, 0.0); (449375.8,
 3758918.0, 196.5, 196.5, 0.0);
 (449379.6, 3758918.0, 196.4, 196.4, 0.0); (449383.5,
 3758918.0, 196.2, 196.2, 0.0);
 (449387.4, 3758918.0, 195.9, 195.9, 0.0); (449391.2,
 3758918.0, 195.7, 195.7, 0.0);
 (449395.1, 3758918.0, 195.4, 195.4, 0.0); (449399.0,
 3758918.0, 195.1, 195.1, 0.0);
 (449402.8, 3758918.0, 194.9, 194.9, 0.0); (449406.7,
 3758918.0, 194.6, 194.6, 0.0);
 (449410.6, 3758918.0, 194.3, 194.3, 0.0); (449414.5,
 3758918.0, 194.0, 195.0, 0.0);
 (449418.3, 3758918.0, 193.6, 195.0, 0.0); (449422.2,
 3758918.0, 193.3, 195.0, 0.0);
 (449426.1, 3758918.0, 192.9, 195.0, 0.0); (449429.9,
 3758918.0, 192.6, 195.0, 0.0);
 (449433.8, 3758918.0, 192.2, 195.0, 0.0); (449437.7,
 3758918.0, 191.9, 195.0, 0.0);
 (449441.5, 3758918.0, 191.7, 195.0, 0.0); (449445.4,
 3758918.0, 191.5, 191.5, 0.0);
 (449368.0, 3758932.0, 197.2, 197.2, 0.0); (449371.9,
 3758932.0, 197.2, 197.2, 0.0);
 (449375.8, 3758932.0, 197.2, 197.2, 0.0); (449379.6,
 3758932.0, 197.2, 197.2, 0.0);
 (449383.5, 3758932.0, 196.9, 196.9, 0.0); (449387.4,
 3758932.0, 196.7, 196.7, 0.0);
 (449391.2, 3758932.0, 196.4, 196.4, 0.0); (449395.1,
 3758932.0, 196.2, 196.2, 0.0);
 (449399.0, 3758932.0, 195.9, 195.9, 0.0); (449402.8,
 3758932.0, 195.6, 195.6, 0.0);
 (449406.7, 3758932.0, 195.4, 195.4, 0.0); (449410.6,
 3758932.0, 195.1, 195.1, 0.0);
 (449414.5, 3758932.0, 194.7, 194.7, 0.0); (449418.3,
 3758932.0, 194.3, 194.3, 0.0);
 (449422.2, 3758932.0, 193.9, 193.9, 0.0); (449426.1,
 3758932.0, 193.5, 193.5, 0.0);
 (449429.9, 3758932.0, 193.1, 193.1, 0.0); (449433.8,
 3758932.0, 192.8, 192.8, 0.0);

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\DSLTOG\DSLTOG.ISC *** 11/11/21

*** AERMET - VERSION 16216 ***
 *** 11:28:21

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449437.7, 3758932.0, 192.4, 192.4, 0.0);	(449441.5,
3758932.0, 192.1, 192.1, 0.0);	
(449445.4, 3758932.0, 192.0, 192.0, 0.0);	(449368.0,
3758946.0, 197.7, 197.7, 0.0);	
(449371.9, 3758946.0, 197.7, 197.7, 0.0);	(449375.8,
3758946.0, 197.7, 197.7, 0.0);	
(449379.6, 3758946.0, 197.7, 197.7, 0.0);	(449383.5,
3758946.0, 197.4, 197.4, 0.0);	
(449387.4, 3758946.0, 197.1, 197.1, 0.0);	(449391.2,
3758946.0, 196.9, 196.9, 0.0);	
(449395.1, 3758946.0, 196.6, 196.6, 0.0);	(449399.0,
3758946.0, 196.4, 196.4, 0.0);	
(449402.8, 3758946.0, 196.1, 196.1, 0.0);	(449406.7,
3758946.0, 195.8, 195.8, 0.0);	
(449410.6, 3758946.0, 195.5, 195.5, 0.0);	(449414.5,
3758946.0, 195.2, 195.2, 0.0);	
(449418.3, 3758946.0, 194.8, 194.8, 0.0);	(449422.2,
3758946.0, 194.4, 194.4, 0.0);	
(449426.1, 3758946.0, 194.0, 196.0, 0.0);	(449429.9,
3758946.0, 193.6, 196.0, 0.0);	
(449433.8, 3758946.0, 193.2, 196.0, 0.0);	(449437.7,
3758946.0, 192.8, 196.0, 0.0);	
(449441.5, 3758946.0, 192.5, 196.0, 0.0);	(449445.4,
3758946.0, 192.3, 192.3, 0.0);	
(449368.0, 3758960.1, 198.0, 198.0, 0.0);	(449371.9,
3758960.1, 198.0, 198.0, 0.0);	
(449375.8, 3758960.1, 198.0, 198.0, 0.0);	(449379.6,
3758960.1, 198.0, 198.0, 0.0);	
(449383.5, 3758960.1, 197.8, 197.8, 0.0);	(449387.4,
3758960.1, 197.5, 197.5, 0.0);	
(449391.2, 3758960.1, 197.3, 197.3, 0.0);	(449395.1,
3758960.1, 197.0, 197.0, 0.0);	
(449399.0, 3758960.1, 196.8, 196.8, 0.0);	(449402.8,
3758960.1, 196.5, 196.5, 0.0);	
(449406.7, 3758960.1, 196.3, 196.3, 0.0);	(449410.6,
3758960.1, 196.0, 196.0, 0.0);	
(449414.5, 3758960.1, 195.6, 195.6, 0.0);	(449418.3,
3758960.1, 195.2, 195.2, 0.0);	
(449422.2, 3758960.1, 194.9, 194.9, 0.0);	(449426.1,
3758960.1, 194.5, 194.5, 0.0);	
(449429.9, 3758960.1, 194.1, 194.1, 0.0);	(449433.8,
3758960.1, 193.7, 193.7, 0.0);	
(449437.7, 3758960.1, 193.3, 193.3, 0.0);	(449441.5,

3758960.1, 193.0, 193.0, 0.0);
 (449445.4, 3758960.1, 192.7, 192.7, 0.0); (449368.0,
 3758974.1, 198.0, 198.0, 0.0);
 (449371.9, 3758974.1, 198.0, 198.0, 0.0); (449375.8,
 3758974.1, 198.0, 198.0, 0.0);
 (449379.6, 3758974.1, 198.0, 198.0, 0.0); (449383.5,
 3758974.1, 197.8, 197.8, 0.0);
 (449387.4, 3758974.1, 197.6, 197.6, 0.0); (449391.2,
 3758974.1, 197.5, 197.5, 0.0);
 (449395.1, 3758974.1, 197.3, 197.3, 0.0); (449399.0,
 3758974.1, 197.1, 197.1, 0.0);
 (449402.8, 3758974.1, 196.9, 196.9, 0.0); (449406.7,
 3758974.1, 196.7, 196.7, 0.0);
 (449410.6, 3758974.1, 196.5, 196.5, 0.0); (449414.5,
 3758974.1, 196.1, 196.1, 0.0);
 (449418.3, 3758974.1, 195.7, 195.7, 0.0); (449422.2,
 3758974.1, 195.3, 195.3, 0.0);
 (449426.1, 3758974.1, 194.9, 197.0, 0.0); (449429.9,
 3758974.1, 194.5, 197.0, 0.0);
 (449433.8, 3758974.1, 194.2, 197.0, 0.0); (449437.7,
 3758974.1, 193.8, 197.0, 0.0);
 (449441.5, 3758974.1, 193.4, 197.0, 0.0); (449445.4,
 3758974.1, 193.1, 197.0, 0.0);
 (449368.0, 3758988.2, 198.1, 198.1, 0.0); (449371.9,
 3758988.2, 198.1, 198.1, 0.0);
 (449375.8, 3758988.2, 198.1, 198.1, 0.0); (449379.6,
 3758988.2, 198.1, 198.1, 0.0);
 (449383.5, 3758988.2, 197.9, 197.9, 0.0); (449387.4,
 3758988.2, 197.8, 197.8, 0.0);
 (449391.2, 3758988.2, 197.6, 197.6, 0.0); (449395.1,
 3758988.2, 197.5, 197.5, 0.0);
 (449399.0, 3758988.2, 197.4, 197.4, 0.0); (449402.8,
 3758988.2, 197.2, 197.2, 0.0);
 (449406.7, 3758988.2, 197.1, 197.1, 0.0); (449410.6,
 3758988.2, 196.9, 196.9, 0.0);
 (449414.5, 3758988.2, 196.5, 196.5, 0.0); (449418.3,
 3758988.2, 196.1, 196.1, 0.0);
 (449422.2, 3758988.2, 195.8, 195.8, 0.0); (449426.1,
 3758988.2, 195.4, 195.4, 0.0);
 (449429.9, 3758988.2, 195.0, 195.0, 0.0); (449433.8,
 3758988.2, 194.6, 194.6, 0.0);
 (449437.7, 3758988.2, 194.2, 194.2, 0.0); (449441.5,
 3758988.2, 193.9, 193.9, 0.0);
 (449445.4, 3758988.2, 193.5, 193.5, 0.0); (449368.0,
 3759002.2, 198.5, 198.5, 0.0);
 (449371.9, 3759002.2, 198.5, 198.5, 0.0); (449375.8,
 3759002.2, 198.5, 198.5, 0.0);

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\DSLTOG\DSLTOG.ISC *** 11/11/21

*** AERMET - VERSION 16216 ***

*** 11:28:21

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

(449379.6, 3759002.2, 198.5, 198.5, 0.0);	(449383.5,
3759002.2, 198.3, 198.3, 0.0);	
(449387.4, 3759002.2, 198.1, 198.1, 0.0);	(449391.2,
3759002.2, 197.9, 197.9, 0.0);	
(449395.1, 3759002.2, 197.7, 197.7, 0.0);	(449399.0,
3759002.2, 197.5, 197.5, 0.0);	
(449402.8, 3759002.2, 197.3, 197.3, 0.0);	(449406.7,
3759002.2, 197.1, 197.1, 0.0);	
(449410.6, 3759002.2, 196.9, 196.9, 0.0);	(449414.5,
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(449418.3, 3759002.2, 196.3, 196.3, 0.0);	(449422.2,
3759002.2, 196.0, 196.0, 0.0);	
(449426.1, 3759002.2, 195.6, 195.6, 0.0);	(449429.9,
3759002.2, 195.3, 195.3, 0.0);	
(449433.8, 3759002.2, 195.0, 195.0, 0.0);	(449437.7,
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(449375.8, 3759016.2, 199.0, 199.0, 0.0);	(449379.6,
3759016.2, 199.0, 199.0, 0.0);	
(449383.5, 3759016.2, 198.7, 198.7, 0.0);	(449387.4,
3759016.2, 198.5, 198.5, 0.0);	
(449391.2, 3759016.2, 198.2, 198.2, 0.0);	(449395.1,
3759016.2, 198.0, 198.0, 0.0);	
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(449406.7, 3759016.2, 197.2, 197.2, 0.0);	(449410.6,
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(449414.5, 3759016.2, 196.7, 196.7, 0.0);	(449418.3,
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(449429.9, 3759016.2, 195.6, 195.6, 0.0);	(449433.8,
3759016.2, 195.4, 195.4, 0.0);	
(449437.7, 3759016.2, 195.1, 195.1, 0.0);	(449441.5,
3759016.2, 194.8, 195.0, 0.0);	
(449445.4, 3759016.2, 194.4, 195.0, 0.0);	(449368.0,
3759030.3, 198.5, 198.5, 0.0);	
(449371.9, 3759030.3, 198.5, 198.5, 0.0);	(449375.8,

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 (449375.8, 3759044.3, 198.1, 198.1, 0.0); (449379.6,
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 (449399.0, 3759044.3, 196.8, 196.8, 0.0); (449402.8,
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 (449406.7, 3759044.3, 196.2, 196.2, 0.0); (449410.6,
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 (449429.9, 3759044.3, 195.3, 195.3, 0.0); (449433.8,
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 (449437.7, 3759044.3, 195.1, 195.1, 0.0); (449441.5,
 3759044.3, 194.8, 194.8, 0.0);
 (449445.4, 3759044.3, 194.4, 194.4, 0.0);

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR

Name: UNKNOWN

Name: UNKNOWN

Year: 2012

Year: 2012

First 24 hours of scalar data

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

12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40
1.00	2.93	55.	10.1	288.1	2.0								
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40
1.00	3.05	55.	10.1	287.0	2.0								
12	01	01	1	03	-21.5	0.221	-9.000	-9.000	-999.	250.	53.5	0.15	2.40
1.00	2.45	74.	10.1	284.2	2.0								
12	01	01	1	04	-22.0	0.227	-9.000	-9.000	-999.	260.	56.8	0.15	2.40
1.00	2.52	77.	10.1	285.9	2.0								
12	01	01	1	05	-20.0	0.206	-9.000	-9.000	-999.	225.	46.8	0.15	2.40
1.00	2.30	80.	10.1	285.4	2.0								
12	01	01	1	06	-14.4	0.171	-9.000	-9.000	-999.	170.	32.1	0.15	2.40
1.00	1.93	79.	10.1	287.0	2.0								
12	01	01	1	07	-14.9	0.174	-9.000	-9.000	-999.	174.	33.2	0.15	2.40
1.00	1.96	77.	10.1	284.2	2.0								
12	01	01	1	08	-11.9	0.169	-9.000	-9.000	-999.	167.	36.1	0.15	2.40
0.53	1.89	77.	10.1	288.1	2.0								
12	01	01	1	09	40.4	0.234	0.359	0.006	40.	272.	-28.1	0.15	2.40
0.31	2.10	81.	10.1	289.2	2.0								
12	01	01	1	10	112.6	0.246	0.742	0.005	129.	293.	-11.8	0.15	2.40
0.24	1.99	101.	10.1	296.4	2.0								
12	01	01	1	11	161.0	0.402	1.188	0.005	369.	611.	-35.6	0.15	2.40
0.21	3.68	78.	10.1	298.8	2.0								
12	01	01	1	12	184.7	0.337	1.516	0.005	668.	473.	-18.4	0.15	2.40
0.20	2.89	68.	10.1	300.4	2.0								
12	01	01	1	13	183.9	0.310	1.809	0.005	1139.	414.	-14.2	0.15	2.40
0.20	2.57	64.	10.1	302.5	2.0								
12	01	01	1	14	156.6	0.374	1.852	0.005	1434.	549.	-29.5	0.15	2.40
0.22	3.37	63.	10.1	303.1	2.0								
12	01	01	1	15	104.3	0.382	1.658	0.005	1546.	567.	-47.2	0.15	2.40
0.25	3.59	62.	10.1	302.5	2.0								
12	01	01	1	16	31.8	0.374	1.123	0.005	1573.	550.	-145.8	0.15	2.40
0.34	3.76	69.	10.1	300.9	2.0								
12	01	01	1	17	-23.3	0.276	-9.000	-9.000	-999.	354.	84.0	0.15	2.40
0.62	3.03	59.	10.1	297.5	2.0								
12	01	01	1	18	-21.5	0.229	-9.000	-9.000	-999.	264.	57.8	0.15	2.40
1.00	2.54	54.	10.1	295.4	2.0								
12	01	01	1	19	-19.3	0.204	-9.000	-9.000	-999.	221.	45.6	0.15	2.40
1.00	2.27	79.	10.1	292.0	2.0								
12	01	01	1	20	-20.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.15	2.40
1.00	2.42	79.	10.1	292.5	2.0								
12	01	01	1	21	-19.7	0.206	-9.000	-9.000	-999.	225.	46.9	0.15	2.40

```

1.00  2.30  95.  10.1  290.9  2.0
  12 01 01  1 22 -17.6  0.190 -9.000 -9.000 -999.  199.  39.8  0.15  2.40
1.00  2.13  78.  10.1  290.4  2.0
  12 01 01  1 23 -20.3  0.211 -9.000 -9.000 -999.  233.  49.0  0.15  2.40
1.00  2.35  52.  10.1  289.2  2.0
  12 01 01  1 24 -16.4  0.183 -9.000 -9.000 -999.  189.  37.0  0.15  2.40
1.00  2.06  75.  10.1  288.8  2.0

```

First hour of profile data

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YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
12 01 01 01 10.1 1 55. 2.93 288.2 99.0 -99.00 -99.00

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F indicates top of profile (=1) or below (=0)

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
449368.02	3758763.53	0.04629 (13112916)	449371.89
3758763.53	0.04378 (13062606)		
449375.76	3758763.53	0.04199 (13062606)	449379.63
3758763.53	0.04034 (13062606)		
449383.50	3758763.53	0.03883 (13062606)	449387.37
3758763.53	0.03743 (13062606)		
449391.24	3758763.53	0.03611 (13062606)	449395.11

3758763.53	0.03489	(13062606)	
449398.98	3758763.53	0.03374	(13062606) 449402.85
3758763.53	0.03266	(13062606)	
449406.72	3758763.53	0.03165	(13062606) 449410.59
3758763.53	0.03069	(13062606)	
449414.46	3758763.53	0.02980	(13062606) 449418.33
3758763.53	0.02896	(13062606)	
449422.20	3758763.53	0.02816	(13062606) 449426.07
3758763.53	0.02740	(13062606)	
449429.94	3758763.53	0.02668	(13062606) 449433.81
3758763.53	0.02599	(13062606)	
449437.68	3758763.53	0.02534	(13062606) 449441.55
3758763.53	0.02472	(13062606)	
449445.42	3758763.53	0.02412	(13062606) 449368.02
3758777.57	0.04633	(13112916)	
449371.89	3758777.57	0.04389	(13062606) 449375.76
3758777.57	0.04208	(13062606)	
449379.63	3758777.57	0.04041	(13062606) 449383.50
3758777.57	0.03889	(13062606)	
449387.37	3758777.57	0.03749	(13062606) 449391.24
3758777.57	0.03618	(13062606)	
449395.11	3758777.57	0.03495	(13062606) 449398.98
3758777.57	0.03380	(13062606)	
449402.85	3758777.57	0.03272	(13062606) 449406.72
3758777.57	0.03170	(13062606)	
449410.59	3758777.57	0.03075	(13062606) 449414.46
3758777.57	0.02986	(13062606)	
449418.33	3758777.57	0.02902	(13062606) 449422.20
3758777.57	0.02822	(13062606)	
449426.07	3758777.57	0.02746	(13062606) 449429.94
3758777.57	0.02674	(13062606)	
449433.81	3758777.57	0.02606	(13062606) 449437.68
3758777.57	0.02540	(13062606)	
449441.55	3758777.57	0.02478	(13062606) 449445.42
3758777.57	0.02419	(13062606)	
449368.02	3758791.61	0.04652	(13112916) 449371.89
3758791.61	0.04404	(13062606)	
449375.76	3758791.61	0.04225	(13062606) 449379.63
3758791.61	0.04060	(13062606)	
449383.50	3758791.61	0.03908	(13062606) 449387.37
3758791.61	0.03766	(13062606)	
449391.24	3758791.61	0.03635	(13062606) 449395.11
3758791.61	0.03512	(13062606)	
449398.98	3758791.61	0.03397	(13062606) 449402.85
3758791.61	0.03288	(13062606)	
449406.72	3758791.61	0.03186	(13062606) 449410.59
3758791.61	0.03091	(13062606)	
449414.46	3758791.61	0.03001	(13062606) 449418.33
3758791.61	0.02917	(13062606)	
449422.20	3758791.61	0.02837	(13062606) 449426.07

3758791.61	0.02761	(13062606)		
449429.94	3758791.61	0.02688	(13062606)	449433.81
3758791.61	0.02619	(13062606)		
449437.68	3758791.61	0.02553	(13062606)	449441.55
3758791.61	0.02491	(13062606)		
449445.42	3758791.61	0.02431	(13062606)	449368.02
3758805.65	0.04665	(13112916)		
449371.89	3758805.65	0.04420	(13062606)	449375.76
3758805.65	0.04242	(13062606)		
449379.63	3758805.65	0.04077	(13062606)	449383.50
3758805.65	0.03925	(13062606)		
449387.37	3758805.65	0.03783	(13062606)	449391.24
3758805.65	0.03651	(13062606)		
449395.11	3758805.65	0.03528	(13062606)	449398.98
3758805.65	0.03412	(13062606)		
449402.85	3758805.65	0.03303	(13062606)	449406.72
3758805.65	0.03201	(13062606)		
449410.59	3758805.65	0.03105	(13062606)	449414.46
3758805.65	0.03016	(13062606)		
449418.33	3758805.65	0.02931	(13062606)	449422.20
3758805.65	0.02850	(13062606)		
449426.07	3758805.65	0.02774	(13062606)	449429.94
3758805.65	0.02701	(13062606)		

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L000001 , L000002
 , L000003 , L000004 , L000005 ,
 , L000006 , L000007 , L000008 , L000009 , L000010
 , L000011 , L000012 , L000013 ,
 , L000014 , L000015 , L000016 , L000017 , L000018
 , L000019 , L000020 , L000021 ,
 , L000022 , L000023 , L000024 , L000025 , L000026
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

449433.81	3758805.65	0.02632	(13062606)	449437.68
3758805.65	0.02566	(13062606)		
449441.55	3758805.65	0.02503	(13062606)	449445.42
3758805.65	0.02442	(13062606)		
449368.02	3758819.69	0.04672	(13112916)	449371.89
3758819.69	0.04431	(13062606)		
449375.76	3758819.69	0.04252	(13062606)	449379.63
3758819.69	0.04087	(13062606)		
449383.50	3758819.69	0.03935	(13062606)	449387.37
3758819.69	0.03793	(13062606)		
449391.24	3758819.69	0.03660	(13062606)	449395.11
3758819.69	0.03537	(13062606)		
449398.98	3758819.69	0.03421	(13062606)	449402.85
3758819.69	0.03312	(13062606)		
449406.72	3758819.69	0.03210	(13062606)	449410.59
3758819.69	0.03114	(13062606)		
449414.46	3758819.69	0.03024	(13062606)	449418.33
3758819.69	0.02939	(13062606)		
449422.20	3758819.69	0.02858	(13062606)	449426.07
3758819.69	0.02782	(13062606)		
449429.94	3758819.69	0.02709	(13062606)	449433.81
3758819.69	0.02639	(13062606)		
449437.68	3758819.69	0.02573	(13062606)	449441.55
3758819.69	0.02510	(13062606)		
449445.42	3758819.69	0.02450	(13062606)	449368.02
3758833.73	0.04680	(13112916)		
449371.89	3758833.73	0.04440	(13062606)	449375.76
3758833.73	0.04262	(13062606)		
449379.63	3758833.73	0.04097	(13062606)	449383.50
3758833.73	0.03944	(13062606)		
449387.37	3758833.73	0.03801	(13062606)	449391.24
3758833.73	0.03669	(13062606)		
449395.11	3758833.73	0.03545	(13062606)	449398.98
3758833.73	0.03429	(13062606)		
449402.85	3758833.73	0.03320	(13062606)	449406.72
3758833.73	0.03217	(13062606)		
449410.59	3758833.73	0.03121	(13062606)	449414.46
3758833.73	0.03031	(13062606)		
449418.33	3758833.73	0.02946	(13062606)	449422.20
3758833.73	0.02865	(13062606)		
449426.07	3758833.73	0.02789	(13062606)	449429.94
3758833.73	0.02716	(13062606)		
449433.81	3758833.73	0.02646	(13062606)	449437.68
3758833.73	0.02580	(13062606)		
449441.55	3758833.73	0.02517	(13062606)	449445.42
3758833.73	0.02456	(13062606)		
449368.02	3758847.77	0.04723	(13112916)	449371.89
3758847.77	0.04464	(13112916)		

449375.76	3758847.77	0.04281	(13062606)	449379.63
3758847.77	0.04116	(13062606)		
449383.50	3758847.77	0.03962	(13062606)	449387.37
3758847.77	0.03820	(13062606)		
449391.24	3758847.77	0.03687	(13062606)	449395.11
3758847.77	0.03562	(13062606)		
449398.98	3758847.77	0.03446	(13062606)	449402.85
3758847.77	0.03336	(13062606)		
449406.72	3758847.77	0.03233	(13062606)	449410.59
3758847.77	0.03136	(13062606)		
449414.46	3758847.77	0.03046	(13062606)	449418.33
3758847.77	0.02960	(13062606)		
449422.20	3758847.77	0.02878	(13062606)	449426.07
3758847.77	0.02800	(13062606)		
449429.94	3758847.77	0.02727	(13062606)	449433.81
3758847.77	0.02657	(13062606)		
449437.68	3758847.77	0.02590	(13062606)	449441.55
3758847.77	0.02526	(13062606)		
449445.42	3758847.77	0.02465	(13062606)	449368.02
3758861.81	0.04776	(13112916)		
449371.89	3758861.81	0.04520	(13112916)	449375.76
3758861.81	0.04299	(13062606)		
449379.63	3758861.81	0.04134	(13062606)	449383.50
3758861.81	0.03980	(13062606)		
449387.37	3758861.81	0.03837	(13062606)	449391.24
3758861.81	0.03704	(13062606)		
449395.11	3758861.81	0.03580	(13062606)	449398.98
3758861.81	0.03463	(13062606)		
449402.85	3758861.81	0.03353	(13062606)	449406.72
3758861.81	0.03250	(13062606)		
449410.59	3758861.81	0.03152	(13062606)	449414.46
3758861.81	0.03060	(13062606)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
3758861.81	449418.33	3758861.81	0.02973	(13062606)	449422.20
3758861.81	449426.07	3758861.81	0.02813	(13062606)	449429.94
3758861.81	449433.81	3758861.81	0.02667	(13062606)	449437.68
3758861.81	449441.55	3758861.81	0.02535	(13062606)	449445.42
3758875.85	449368.02	3758875.85	0.04796	(13112916)	449371.89
3758875.85	449375.76	3758875.85	0.04314	(13112916)	449379.63
3758875.85	449383.50	3758875.85	0.03993	(13062606)	449387.37
3758875.85	449391.24	3758875.85	0.03717	(13062606)	449395.11
3758875.85	449398.98	3758875.85	0.03475	(13062606)	449402.85
3758875.85	449406.72	3758875.85	0.03261	(13062606)	449410.59
3758875.85	449414.46	3758875.85	0.03071	(13062606)	449418.33
3758875.85	449422.20	3758875.85	0.02901	(13062606)	449426.07
3758875.85	449429.94	3758875.85	0.02748	(13062606)	449433.81
3758875.85	449437.68	3758875.85	0.02608	(13062606)	449441.55
3758889.89	449445.42	3758875.85	0.02483	(13062606)	449368.02
3758889.89	449371.89	3758889.89	0.04550	(13112916)	449375.76
3758889.89	449379.63	3758889.89	0.04156	(13062606)	449383.50
3758889.89	449387.37	3758889.89	0.03860	(13062606)	449391.24
3758889.89	449395.11	3758889.89	0.03602	(13062606)	449398.98
3758889.89	449402.85	3758889.89	0.03374	(13062606)	449406.72

3758889.89	0.03271	(13062606)		
449410.59	3758889.89	0.03173	(13062606)	449414.46
3758889.89	0.03080	(13062606)		
449418.33	3758889.89	0.02993	(13062606)	449422.20
3758889.89	0.02910	(13062606)		
449426.07	3758889.89	0.02831	(13062606)	449429.94
3758889.89	0.02756	(13062606)		
449433.81	3758889.89	0.02685	(13062606)	449437.68
3758889.89	0.02616	(13062606)		
449441.55	3758889.89	0.02552	(13062606)	449445.42
3758889.89	0.02491	(13062606)		
449368.02	3758903.93	0.04789	(13112916)	449371.89
3758903.93	0.04540	(13112916)		
449375.76	3758903.93	0.04329	(13062606)	449379.63
3758903.93	0.04164	(13062606)		
449383.50	3758903.93	0.04011	(13062606)	449387.37
3758903.93	0.03869	(13062606)		
449391.24	3758903.93	0.03736	(13062606)	449395.11
3758903.93	0.03611	(13062606)		
449398.98	3758903.93	0.03494	(13062606)	449402.85
3758903.93	0.03384	(13062606)		
449406.72	3758903.93	0.03281	(13062606)	449410.59
3758903.93	0.03183	(13062606)		
449414.46	3758903.93	0.03090	(13062606)	449418.33
3758903.93	0.03002	(13062606)		
449422.20	3758903.93	0.02919	(13062606)	449426.07
3758903.93	0.02840	(13062606)		
449429.94	3758903.93	0.02764	(13062606)	449433.81
3758903.93	0.02692	(13062606)		
449437.68	3758903.93	0.02624	(13062606)	449441.55
3758903.93	0.02559	(13062606)		
449445.42	3758903.93	0.02498	(13062606)	449368.02
3758917.97	0.04776	(13112916)		
449371.89	3758917.97	0.04526	(13112916)	449375.76
3758917.97	0.04334	(13062606)		
449379.63	3758917.97	0.04169	(13062606)	449383.50
3758917.97	0.04017	(13062606)		
449387.37	3758917.97	0.03875	(13062606)	449391.24
3758917.97	0.03743	(13062606)		
449395.11	3758917.97	0.03619	(13062606)	449398.98
3758917.97	0.03503	(13062606)		

▲ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES 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
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449402.85	3758917.97	0.03393	(13062606)	449406.72
3758917.97	0.03290	(13062606)		
449410.59	3758917.97	0.03192	(13062606)	449414.46
3758917.97	0.03099	(13062606)		
449418.33	3758917.97	0.03011	(13062606)	449422.20
3758917.97	0.02927	(13062606)		
449426.07	3758917.97	0.02848	(13062606)	449429.94
3758917.97	0.02772	(13062606)		
449433.81	3758917.97	0.02700	(13062606)	449437.68
3758917.97	0.02631	(13062606)		
449441.55	3758917.97	0.02566	(13062606)	449445.42
3758917.97	0.02504	(13062606)		
449368.02	3758932.01	0.04771	(13112916)	449371.89
3758932.01	0.04520	(13112916)		
449375.76	3758932.01	0.04338	(13062606)	449379.63
3758932.01	0.04173	(13062606)		
449383.50	3758932.01	0.04021	(13062606)	449387.37
3758932.01	0.03880	(13062606)		
449391.24	3758932.01	0.03748	(13062606)	449395.11
3758932.01	0.03624	(13062606)		
449398.98	3758932.01	0.03508	(13062606)	449402.85
3758932.01	0.03399	(13062606)		
449406.72	3758932.01	0.03296	(13062606)	449410.59
3758932.01	0.03199	(13062606)		
449414.46	3758932.01	0.03106	(13062606)	449418.33
3758932.01	0.03018	(13062606)		
449422.20	3758932.01	0.02934	(13062606)	449426.07
3758932.01	0.02855	(13062606)		
449429.94	3758932.01	0.02779	(13062606)	449433.81
3758932.01	0.02706	(13062606)		

449437.68	3758932.01	0.02637	(13062606)	449441.55
3758932.01	0.02571	(13062606)		
449445.42	3758932.01	0.02510	(13062606)	449368.02
3758946.05	0.04753	(13112916)		
449371.89	3758946.05	0.04522	(13062606)	449375.76
3758946.05	0.04343	(13062606)		
449379.63	3758946.05	0.04178	(13020301)	449383.50
3758946.05	0.04026	(13062606)		
449387.37	3758946.05	0.03884	(13062606)	449391.24
3758946.05	0.03752	(13062606)		
449395.11	3758946.05	0.03629	(13062606)	449398.98
3758946.05	0.03513	(13062606)		
449402.85	3758946.05	0.03403	(13062606)	449406.72
3758946.05	0.03301	(13062606)		
449410.59	3758946.05	0.03203	(13062606)	449414.46
3758946.05	0.03111	(13062606)		
449418.33	3758946.05	0.03023	(13062606)	449422.20
3758946.05	0.02939	(13062606)		
449426.07	3758946.05	0.02860	(13062606)	449429.94
3758946.05	0.02784	(13062606)		
449433.81	3758946.05	0.02711	(13062606)	449437.68
3758946.05	0.02642	(13062606)		
449441.55	3758946.05	0.02576	(13062606)	449445.42
3758946.05	0.02514	(13062606)		
449368.02	3758960.09	0.04779	(13020301)	449371.89
3758960.09	0.04640	(13020301)		
449375.76	3758960.09	0.04506	(13020301)	449379.63
3758960.09	0.04376	(13020301)		
449383.50	3758960.09	0.04038	(13020301)	449387.37
3758960.09	0.03890	(13020301)		
449391.24	3758960.09	0.03756	(13062606)	449395.11
3758960.09	0.03632	(13062606)		
449398.98	3758960.09	0.03516	(13062606)	449402.85
3758960.09	0.03407	(13062606)		
449406.72	3758960.09	0.03304	(13062606)	449410.59
3758960.09	0.03207	(13062606)		
449414.46	3758960.09	0.03115	(13062606)	449418.33
3758960.09	0.03027	(13062606)		
449422.20	3758960.09	0.02944	(13062606)	449426.07
3758960.09	0.02864	(13062606)		
449429.94	3758960.09	0.02788	(13062606)	449433.81
3758960.09	0.02716	(13062606)		
449437.68	3758960.09	0.02646	(13062606)	449441.55
3758960.09	0.02581	(13062606)		
449445.42	3758960.09	0.02518	(13062606)	449368.02
3758974.13	0.04780	(13112916)		
449371.89	3758974.13	0.04583	(13020301)	449375.76
3758974.13	0.04454	(13020301)		
449379.63	3758974.13	0.04328	(13020301)	449383.50
3758974.13	0.04035	(13062606)		

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449387.37	3758974.13	0.03893	(13062606)	449391.24
3758974.13	0.03760	(16092620)		
449395.11	3758974.13	0.03636	(13062606)	449398.98
3758974.13	0.03520	(13062606)		
449402.85	3758974.13	0.03410	(13062606)	449406.72
3758974.13	0.03307	(13062606)		
449410.59	3758974.13	0.03210	(13062606)	449414.46
3758974.13	0.03118	(13062606)		
449418.33	3758974.13	0.03030	(13062606)	449422.20
3758974.13	0.02947	(13062606)		
449426.07	3758974.13	0.02868	(13062606)	449429.94
3758974.13	0.02792	(13062606)		
449433.81	3758974.13	0.02720	(13062606)	449437.68
3758974.13	0.02650	(13062606)		
449441.55	3758974.13	0.02584	(13062606)	449445.42
3758974.13	0.02521	(13062606)		
449368.02	3758988.17	0.04788	(13112916)	449371.89
3758988.17	0.04541	(13062606)		
449375.76	3758988.17	0.04413	(13020301)	449379.63
3758988.17	0.04293	(13020301)		
449383.50	3758988.17	0.04040	(13062606)	449387.37

3758988.17	0.03897	(13062606)	
449391.24	3758988.17	0.03763	(13062606) 449395.11
3758988.17	0.03646	(16092620)	
449398.98	3758988.17	0.03522	(13062606) 449402.85
3758988.17	0.03413	(13062606)	
449406.72	3758988.17	0.03309	(13062606) 449410.59
3758988.17	0.03212	(13062606)	
449414.46	3758988.17	0.03120	(13062606) 449418.33
3758988.17	0.03033	(13062606)	
449422.20	3758988.17	0.02950	(13062606) 449426.07
3758988.17	0.02870	(13062606)	
449429.94	3758988.17	0.02795	(13062606) 449433.81
3758988.17	0.02722	(13062606)	
449437.68	3758988.17	0.02653	(13062606) 449441.55
3758988.17	0.02587	(13062606)	
449445.42	3758988.17	0.02524	(13062606) 449368.02
3759002.21	0.04915	(13020301)	
449371.89	3759002.21	0.04775	(13020301) 449375.76
3759002.21	0.04642	(13020301)	
449379.63	3759002.21	0.04511	(13020301) 449383.50
3759002.21	0.04176	(13020301)	
449387.37	3759002.21	0.04036	(13020301) 449391.24
3759002.21	0.03766	(13062606)	
449395.11	3759002.21	0.03642	(13062606) 449398.98
3759002.21	0.03536	(16092620)	
449402.85	3759002.21	0.03415	(13062606) 449406.72
3759002.21	0.03312	(13062606)	
449410.59	3759002.21	0.03214	(13062606) 449414.46
3759002.21	0.03122	(13062606)	
449418.33	3759002.21	0.03035	(13062606) 449422.20
3759002.21	0.02951	(13062606)	
449426.07	3759002.21	0.02872	(13062606) 449429.94
3759002.21	0.02797	(13062606)	
449433.81	3759002.21	0.02724	(13062606) 449437.68
3759002.21	0.02656	(13062606)	
449441.55	3759002.21	0.02590	(13062606) 449445.42
3759002.21	0.02526	(13062606)	
449368.02	3759016.25	0.04939	(13020301) 449371.89
3759016.25	0.04803	(13020301)	
449375.76	3759016.25	0.04673	(13020301) 449379.63
3759016.25	0.04547	(13020301)	
449383.50	3759016.25	0.04379	(13020301) 449387.37
3759016.25	0.04048	(13020301)	
449391.24	3759016.25	0.03905	(13020301) 449395.11
3759016.25	0.03644	(13062606)	
449398.98	3759016.25	0.03528	(16092620) 449402.85
3759016.25	0.03424	(16092620)	
449406.72	3759016.25	0.03314	(13062606) 449410.59
3759016.25	0.03216	(13062606)	
449414.46	3759016.25	0.03123	(13062606) 449418.33

3759016.25	0.03036	(13062606)		
449422.20	3759016.25	0.02952	(13062606)	449426.07
3759016.25	0.02873	(13062606)		
449429.94	3759016.25	0.02798	(13062606)	449433.81
3759016.25	0.02726	(13062606)		
449437.68	3759016.25	0.02657	(13062606)	449441.55
3759016.25	0.02591	(13062606)		
449445.42	3759016.25	0.02528	(13062606)	449368.02
3759030.29	0.04817	(13112916)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449371.89	3759030.29	0.04651	(13020301)	449375.76
3759030.29	0.04525	(13020301)		
449379.63	3759030.29	0.04404	(13020301)	449383.50
3759030.29	0.04073	(13020301)		
449387.37	3759030.29	0.03947	(16092620)	449391.24
3759030.29	0.03772	(13062606)		
449395.11	3759030.29	0.03647	(13062606)	449398.98
3759030.29	0.03530	(13062606)		
449402.85	3759030.29	0.03419	(13062606)	449406.72
3759030.29	0.03315	(13062606)		
449410.59	3759030.29	0.03217	(13062606)	449414.46
3759030.29	0.03124	(13062606)		

449418.33	3759030.29	0.03036	(13062606)	449422.20
3759030.29	0.02952	(13062606)		
449426.07	3759030.29	0.02873	(13062606)	449429.94
3759030.29	0.02797	(13062606)		
449433.81	3759030.29	0.02725	(13062606)	449437.68
3759030.29	0.02657	(13062606)		
449441.55	3759030.29	0.02591	(13062606)	449445.42
3759030.29	0.02527	(13062606)		
449368.02	3759044.33	0.04856	(13112916)	449371.89
3759044.33	0.04602	(13112916)		
449375.76	3759044.33	0.04378	(13062606)	449379.63
3759044.33	0.04210	(13062606)		
449383.50	3759044.33	0.04055	(13062606)	449387.37
3759044.33	0.03910	(13062606)		
449391.24	3759044.33	0.03775	(13062606)	449395.11
3759044.33	0.03649	(13062606)		
449398.98	3759044.33	0.03531	(13062606)	449402.85
3759044.33	0.03420	(13062606)		
449406.72	3759044.33	0.03315	(13062606)	449410.59
3759044.33	0.03216	(13062606)		
449414.46	3759044.33	0.03123	(13062606)	449418.33
3759044.33	0.03034	(13062606)		
449422.20	3759044.33	0.02951	(13062606)	449426.07
3759044.33	0.02871	(13062606)		
449429.94	3759044.33	0.02796	(13062606)	449433.81
3759044.33	0.02724	(13062606)		
449437.68	3759044.33	0.02655	(13062606)	449441.55
3759044.33	0.02589	(13062606)		
449445.42	3759044.33	0.02526	(13062606)	

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\DSLTOG\DSLTOG.ISC                ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
***                                     ***      11:28:21

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PAGE 18

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES 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
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

		**		
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

449368.02	3758763.53	0.03890c	(12121708)	449371.89
3758763.53	0.03725c	(12121708)		
449375.76	3758763.53	0.03573c	(12121708)	449379.63
3758763.53	0.03433c	(12121708)		
449383.50	3758763.53	0.03304c	(12121708)	449387.37
3758763.53	0.03185c	(12121708)		
449391.24	3758763.53	0.03073c	(12121708)	449395.11
3758763.53	0.02969c	(12121708)		
449398.98	3758763.53	0.02871c	(12121708)	449402.85
3758763.53	0.02779c	(12121708)		
449406.72	3758763.53	0.02693c	(12121708)	449410.59
3758763.53	0.02612c	(12121708)		
449414.46	3758763.53	0.02536c	(12121708)	449418.33
3758763.53	0.02464c	(12121708)		
449422.20	3758763.53	0.02396c	(12121708)	449426.07
3758763.53	0.02332c	(12121708)		
449429.94	3758763.53	0.02270c	(12121708)	449433.81
3758763.53	0.02212c	(12121708)		
449437.68	3758763.53	0.02156c	(12121708)	449441.55
3758763.53	0.02103c	(12121708)		
449445.42	3758763.53	0.02053c	(12121708)	449368.02
3758777.57	0.03901c	(12121708)		
449371.89	3758777.57	0.03734c	(12121708)	449375.76
3758777.57	0.03580c	(12121708)		
449379.63	3758777.57	0.03438c	(12121708)	449383.50
3758777.57	0.03309c	(12121708)		
449387.37	3758777.57	0.03189c	(12121708)	449391.24
3758777.57	0.03078c	(12121708)		
449395.11	3758777.57	0.02973c	(12121708)	449398.98
3758777.57	0.02876c	(12121708)		
449402.85	3758777.57	0.02784c	(12121708)	449406.72
3758777.57	0.02697c	(12121708)		
449410.59	3758777.57	0.02616c	(12121708)	449414.46
3758777.57	0.02541c	(12121708)		
449418.33	3758777.57	0.02469c	(12121708)	449422.20
3758777.57	0.02401c	(12121708)		
449426.07	3758777.57	0.02337c	(12121708)	449429.94
3758777.57	0.02275c	(12121708)		
449433.81	3758777.57	0.02217c	(12121708)	449437.68
3758777.57	0.02161c	(12121708)		
449441.55	3758777.57	0.02108c	(12121708)	449445.42

3758777.57	0.02059c (12121708)	
449368.02	3758791.61	0.03913c (12121708) 449371.89
3758791.61	0.03748c (12121708)	
449375.76	3758791.61	0.03595c (12121708) 449379.63
3758791.61	0.03454c (12121708)	
449383.50	3758791.61	0.03325c (12121708) 449387.37
3758791.61	0.03205c (12121708)	
449391.24	3758791.61	0.03093c (12121708) 449395.11
3758791.61	0.02988c (12121708)	
449398.98	3758791.61	0.02890c (12121708) 449402.85
3758791.61	0.02798c (12121708)	
449406.72	3758791.61	0.02711c (12121708) 449410.59
3758791.61	0.02630c (12121708)	
449414.46	3758791.61	0.02554c (12121708) 449418.33
3758791.61	0.02482c (12121708)	
449422.20	3758791.61	0.02414c (12121708) 449426.07
3758791.61	0.02349c (12121708)	
449429.94	3758791.61	0.02287c (12121708) 449433.81
3758791.61	0.02229c (12121708)	
449437.68	3758791.61	0.02173c (12121708) 449441.55
3758791.61	0.02119c (12121708)	
449445.42	3758791.61	0.02069c (12121708) 449368.02
3758805.65	0.03926c (12121708)	
449371.89	3758805.65	0.03761c (12121708) 449375.76
3758805.65	0.03610c (12121708)	
449379.63	3758805.65	0.03470c (12121708) 449383.50
3758805.65	0.03340c (12121708)	
449387.37	3758805.65	0.03219c (12121708) 449391.24
3758805.65	0.03107c (12121708)	
449395.11	3758805.65	0.03002c (12121708) 449398.98
3758805.65	0.02904c (12121708)	
449402.85	3758805.65	0.02811c (12121708) 449406.72
3758805.65	0.02724c (12121708)	
449410.59	3758805.65	0.02642c (12121708) 449414.46
3758805.65	0.02566c (12121708)	
449418.33	3758805.65	0.02494c (12121708) 449422.20
3758805.65	0.02425c (12121708)	
449426.07	3758805.65	0.02360c (12121708) 449429.94
3758805.65	0.02299c (12121708)	

▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\DSLTOG\DSLTOG.ISC *** 11/11/21

*** AERMET - VERSION 16216 ***
*** 11:28:21

PAGE 19

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES 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
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449433.81	3758805.65	0.02240c	(12121708)	449437.68
3758805.65	0.02183c	(12121708)		
449441.55	3758805.65	0.02130c	(12121708)	449445.42
3758805.65	0.02078c	(12121708)		
449368.02	3758819.69	0.03935c	(12121708)	449371.89
3758819.69	0.03770c	(12121708)		
449375.76	3758819.69	0.03618c	(12121708)	449379.63
3758819.69	0.03478c	(12121708)		
449383.50	3758819.69	0.03348c	(12121708)	449387.37
3758819.69	0.03228c	(12121708)		
449391.24	3758819.69	0.03115c	(12121708)	449395.11
3758819.69	0.03010c	(12121708)		
449398.98	3758819.69	0.02911c	(12121708)	449402.85
3758819.69	0.02818c	(12121708)		
449406.72	3758819.69	0.02731c	(12121708)	449410.59
3758819.69	0.02649c	(12121708)		
449414.46	3758819.69	0.02573c	(12121708)	449418.33
3758819.69	0.02501c	(12121708)		
449422.20	3758819.69	0.02432c	(12121708)	449426.07
3758819.69	0.02367c	(12121708)		
449429.94	3758819.69	0.02305c	(12121708)	449433.81
3758819.69	0.02246c	(12121708)		
449437.68	3758819.69	0.02190c	(12121708)	449441.55
3758819.69	0.02136c	(12121708)		
449445.42	3758819.69	0.02085c	(12121708)	449368.02
3758833.73	0.03944c	(12121708)		
449371.89	3758833.73	0.03778c	(12121708)	449375.76
3758833.73	0.03626c	(12121708)		
449379.63	3758833.73	0.03486c	(12121708)	449383.50
3758833.73	0.03356c	(12121708)		
449387.37	3758833.73	0.03235c	(12121708)	449391.24
3758833.73	0.03122c	(12121708)		

449395.11	3758833.73	0.03016c (12121708)	449398.98
3758833.73	0.02918c (12121708)		
449402.85	3758833.73	0.02825c (12121708)	449406.72
3758833.73	0.02737c (12121708)		
449410.59	3758833.73	0.02655c (12121708)	449414.46
3758833.73	0.02579c (12121708)		
449418.33	3758833.73	0.02507c (12121708)	449422.20
3758833.73	0.02438c (12121708)		
449426.07	3758833.73	0.02373c (12121708)	449429.94
3758833.73	0.02311c (12121708)		
449433.81	3758833.73	0.02252c (12121708)	449437.68
3758833.73	0.02195c (12121708)		
449441.55	3758833.73	0.02142c (12121708)	449445.42
3758833.73	0.02090c (12121708)		
449368.02	3758847.77	0.03960c (12121708)	449371.89
3758847.77	0.03795c (12121708)		
449375.76	3758847.77	0.03643c (12121708)	449379.63
3758847.77	0.03503c (12121708)		
449383.50	3758847.77	0.03372c (12121708)	449387.37
3758847.77	0.03251c (12121708)		
449391.24	3758847.77	0.03138c (12121708)	449395.11
3758847.77	0.03032c (12121708)		
449398.98	3758847.77	0.02932c (12121708)	449402.85
3758847.77	0.02839c (12121708)		
449406.72	3758847.77	0.02752c (12121708)	449410.59
3758847.77	0.02669c (12121708)		
449414.46	3758847.77	0.02592c (12121708)	449418.33
3758847.77	0.02519c (12121708)		
449422.20	3758847.77	0.02449c (12121708)	449426.07
3758847.77	0.02383c (12121708)		
449429.94	3758847.77	0.02320c (12121708)	449433.81
3758847.77	0.02261c (12121708)		
449437.68	3758847.77	0.02204c (12121708)	449441.55
3758847.77	0.02150c (12121708)		
449445.42	3758847.77	0.02098c (12121708)	449368.02
3758861.81	0.03975c (12121708)		
449371.89	3758861.81	0.03810c (12121708)	449375.76
3758861.81	0.03659c (12121708)		
449379.63	3758861.81	0.03519c (12121708)	449383.50
3758861.81	0.03388c (12121708)		
449387.37	3758861.81	0.03266c (12121708)	449391.24
3758861.81	0.03153c (12121708)		
449395.11	3758861.81	0.03047c (12121708)	449398.98
3758861.81	0.02948c (12121708)		
449402.85	3758861.81	0.02854c (12121708)	449406.72
3758861.81	0.02766c (12121708)		
449410.59	3758861.81	0.02683c (12121708)	449414.46
3758861.81	0.02605c (12121708)		

*** AERMET - VERSION 16216 ***
 *** 11:28:21

PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION

 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
449418.33	3758861.81	0.02531c (12121708)	449422.20
3758861.81	0.02461c (12121708)		
449426.07	3758861.81	0.02394c (12121708)	449429.94
3758861.81	0.02330c (12121708)		
449433.81	3758861.81	0.02270c (12121708)	449437.68
3758861.81	0.02212c (12121708)		
449441.55	3758861.81	0.02158c (12121708)	449445.42
3758861.81	0.02106c (12121708)		
449368.02	3758875.85	0.03985c (12121708)	449371.89
3758875.85	0.03821c (12121708)		
449375.76	3758875.85	0.03669c (12121708)	449379.63
3758875.85	0.03529c (12121708)		
449383.50	3758875.85	0.03399c (12121708)	449387.37
3758875.85	0.03277c (12121708)		
449391.24	3758875.85	0.03164c (12121708)	449395.11
3758875.85	0.03058c (12121708)		
449398.98	3758875.85	0.02958c (12121708)	449402.85
3758875.85	0.02864c (12121708)		
449406.72	3758875.85	0.02776c (12121708)	449410.59
3758875.85	0.02693c (12121708)		
449414.46	3758875.85	0.02614c (12121708)	449418.33
3758875.85	0.02540c (12121708)		
449422.20	3758875.85	0.02470c (12121708)	449426.07

3758875.85	0.02402c (12121708)	
449429.94	3758875.85	0.02339c (12121708) 449433.81
3758875.85	0.02278c (12121708)	
449437.68	3758875.85	0.02220c (12121708) 449441.55
3758875.85	0.02165c (12121708)	
449445.42	3758875.85	0.02113c (12121708) 449368.02
3758889.89	0.03994c (12121708)	
449371.89	3758889.89	0.03829c (12121708) 449375.76
3758889.89	0.03677c (12121708)	
449379.63	3758889.89	0.03537c (12121708) 449383.50
3758889.89	0.03407c (12121708)	
449387.37	3758889.89	0.03286c (12121708) 449391.24
3758889.89	0.03172c (12121708)	
449395.11	3758889.89	0.03066c (12121708) 449398.98
3758889.89	0.02966c (12121708)	
449402.85	3758889.89	0.02873c (12121708) 449406.72
3758889.89	0.02784c (12121708)	
449410.59	3758889.89	0.02701c (12121708) 449414.46
3758889.89	0.02622c (12121708)	
449418.33	3758889.89	0.02548c (12121708) 449422.20
3758889.89	0.02477c (12121708)	
449426.07	3758889.89	0.02410c (12121708) 449429.94
3758889.89	0.02346c (12121708)	
449433.81	3758889.89	0.02285c (12121708) 449437.68
3758889.89	0.02227c (12121708)	
449441.55	3758889.89	0.02172c (12121708) 449445.42
3758889.89	0.02120c (12121708)	
449368.02	3758903.93	0.04002c (12121708) 449371.89
3758903.93	0.03836c (12121708)	
449375.76	3758903.93	0.03685c (12121708) 449379.63
3758903.93	0.03544c (12121708)	
449383.50	3758903.93	0.03415c (12121708) 449387.37
3758903.93	0.03294c (12121708)	
449391.24	3758903.93	0.03181c (12121708) 449395.11
3758903.93	0.03075c (12121708)	
449398.98	3758903.93	0.02975c (12121708) 449402.85
3758903.93	0.02881c (12121708)	
449406.72	3758903.93	0.02793c (12121708) 449410.59
3758903.93	0.02710c (12121708)	
449414.46	3758903.93	0.02631c (12121708) 449418.33
3758903.93	0.02556c (12121708)	
449422.20	3758903.93	0.02485c (12121708) 449426.07
3758903.93	0.02417c (12121708)	
449429.94	3758903.93	0.02353c (12121708) 449433.81
3758903.93	0.02292c (12121708)	
449437.68	3758903.93	0.02234c (12121708) 449441.55
3758903.93	0.02178c (12121708)	
449445.42	3758903.93	0.02126c (12121708) 449368.02
3758917.97	0.04006c (12121708)	
449371.89	3758917.97	0.03841c (12121708) 449375.76

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3758917.97      0.03689c (12121708)
      449379.63   3758917.97      0.03549c (12121708)      449383.50
3758917.97      0.03419c (12121708)
      449387.37   3758917.97      0.03299c (12121708)      449391.24
3758917.97      0.03187c (12121708)
      449395.11   3758917.97      0.03081c (12121708)      449398.98
3758917.97      0.02982c (12121708)

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^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172
HRA\DSLTOG\DSLTOG.ISC           ***   11/11/21
*** AERMET - VERSION 16216 ***   ***
***                               11:28:21

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PAGE 21

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES 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
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
449402.85	3758917.97	0.02889c (12121708)	449406.72
3758917.97	0.02801c (12121708)		
449410.59	3758917.97	0.02718c (12121708)	449414.46
3758917.97	0.02639c (12121708)		
449418.33	3758917.97	0.02564c (12121708)	449422.20
3758917.97	0.02493c (12121708)		
449426.07	3758917.97	0.02425c (12121708)	449429.94
3758917.97	0.02360c (12121708)		
449433.81	3758917.97	0.02298c (12121708)	449437.68
3758917.97	0.02240c (12121708)		
449441.55	3758917.97	0.02184c (12121708)	449445.42
3758917.97	0.02132c (12121708)		
449368.02	3758932.01	0.04009c (12121708)	449371.89
3758932.01	0.03844c (12121708)		

449375.76	3758932.01	0.03692c (12121708)	449379.63
3758932.01	0.03551c (12121708)		
449383.50	3758932.01	0.03422c (12121708)	449387.37
3758932.01	0.03303c (12121708)		
449391.24	3758932.01	0.03190c (12121708)	449395.11
3758932.01	0.03086c (12121708)		
449398.98	3758932.01	0.02987c (12121708)	449402.85
3758932.01	0.02894c (12121708)		
449406.72	3758932.01	0.02806c (12121708)	449410.59
3758932.01	0.02724c (12121708)		
449414.46	3758932.01	0.02645c (12121708)	449418.33
3758932.01	0.02570c (12121708)		
449422.20	3758932.01	0.02499c (12121708)	449426.07
3758932.01	0.02431c (12121708)		
449429.94	3758932.01	0.02366c (12121708)	449433.81
3758932.01	0.02304c (12121708)		
449437.68	3758932.01	0.02245c (12121708)	449441.55
3758932.01	0.02189c (12121708)		
449445.42	3758932.01	0.02137c (12121708)	449368.02
3758946.05	0.04013c (12121708)		
449371.89	3758946.05	0.03847c (12121708)	449375.76
3758946.05	0.03695c (12121708)		
449379.63	3758946.05	0.03554c (12121708)	449383.50
3758946.05	0.03426c (12121708)		
449387.37	3758946.05	0.03306c (12121708)	449391.24
3758946.05	0.03194c (12121708)		
449395.11	3758946.05	0.03089c (12121708)	449398.98
3758946.05	0.02991c (12121708)		
449402.85	3758946.05	0.02898c (12121708)	449406.72
3758946.05	0.02810c (12121708)		
449410.59	3758946.05	0.02727c (12121708)	449414.46
3758946.05	0.02649c (12121708)		
449418.33	3758946.05	0.02574c (12121708)	449422.20
3758946.05	0.02503c (12121708)		
449426.07	3758946.05	0.02435c (12121708)	449429.94
3758946.05	0.02370c (12121708)		
449433.81	3758946.05	0.02309c (12121708)	449437.68
3758946.05	0.02249c (12121708)		
449441.55	3758946.05	0.02193c (12121708)	449445.42
3758946.05	0.02140c (12121708)		
449368.02	3758960.09	0.04016c (12121708)	449371.89
3758960.09	0.03850c (12121708)		
449375.76	3758960.09	0.03698c (12121708)	449379.63
3758960.09	0.03557c (12121708)		
449383.50	3758960.09	0.03429c (12121708)	449387.37
3758960.09	0.03309c (12121708)		
449391.24	3758960.09	0.03197c (12121708)	449395.11
3758960.09	0.03092c (12121708)		
449398.98	3758960.09	0.02994c (12121708)	449402.85
3758960.09	0.02901c (12121708)		

449406.72	3758960.09	0.02813c (12121708)	449410.59
3758960.09	0.02731c (12121708)		
449414.46	3758960.09	0.02652c (12121708)	449418.33
3758960.09	0.02578c (12121708)		
449422.20	3758960.09	0.02507c (12121708)	449426.07
3758960.09	0.02439c (12121708)		
449429.94	3758960.09	0.02374c (12121708)	449433.81
3758960.09	0.02312c (12121708)		
449437.68	3758960.09	0.02253c (12121708)	449441.55
3758960.09	0.02197c (12121708)		
449445.42	3758960.09	0.02144c (12121708)	449368.02
3758974.13	0.04024c (12121708)		
449371.89	3758974.13	0.03857c (12121708)	449375.76
3758974.13	0.03704c (12121708)		
449379.63	3758974.13	0.03563c (12121708)	449383.50
3758974.13	0.03433c (12121708)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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 *** AERMET - VERSION 16216 ***
 *** 11:28:21

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449387.37	3758974.13	0.03313c (12121708)	449391.24
3758974.13	0.03200c (12121708)		
449395.11	3758974.13	0.03095c (12121708)	449398.98
3758974.13	0.02996c (12121708)		
449402.85	3758974.13	0.02903c (12121708)	449406.72

3758974.13	0.02816c (12121708)	
449410.59	3758974.13	0.02733c (12121708) 449414.46
3758974.13	0.02655c (12121708)	
449418.33	3758974.13	0.02581c (12121708) 449422.20
3758974.13	0.02510c (12121708)	
449426.07	3758974.13	0.02442c (12121708) 449429.94
3758974.13	0.02377c (12121708)	
449433.81	3758974.13	0.02316c (12121708) 449437.68
3758974.13	0.02257c (12121708)	
449441.55	3758974.13	0.02200c (12121708) 449445.42
3758974.13	0.02147c (12121708)	
449368.02	3758988.17	0.04030c (12121708) 449371.89
3758988.17	0.03863c (12121708)	
449375.76	3758988.17	0.03709c (12121708) 449379.63
3758988.17	0.03567c (12121708)	
449383.50	3758988.17	0.03437c (12121708) 449387.37
3758988.17	0.03316c (12121708)	
449391.24	3758988.17	0.03203c (12121708) 449395.11
3758988.17	0.03097c (12121708)	
449398.98	3758988.17	0.02998c (12121708) 449402.85
3758988.17	0.02905c (12121708)	
449406.72	3758988.17	0.02817c (12121708) 449410.59
3758988.17	0.02735c (12121708)	
449414.46	3758988.17	0.02657c (12121708) 449418.33
3758988.17	0.02583c (12121708)	
449422.20	3758988.17	0.02512c (12121708) 449426.07
3758988.17	0.02444c (12121708)	
449429.94	3758988.17	0.02380c (12121708) 449433.81
3758988.17	0.02318c (12121708)	
449437.68	3758988.17	0.02259c (12121708) 449441.55
3758988.17	0.02203c (12121708)	
449445.42	3758988.17	0.02149c (12121708) 449368.02
3759002.21	0.04031c (12121708)	
449371.89	3759002.21	0.03863c (12121708) 449375.76
3759002.21	0.03709c (12121708)	
449379.63	3759002.21	0.03568c (12121708) 449383.50
3759002.21	0.03438c (12121708)	
449387.37	3759002.21	0.03317c (12121708) 449391.24
3759002.21	0.03205c (12121708)	
449395.11	3759002.21	0.03099c (12121708) 449398.98
3759002.21	0.03000c (12121708)	
449402.85	3759002.21	0.02907c (12121708) 449406.72
3759002.21	0.02819c (12121708)	
449410.59	3759002.21	0.02737c (12121708) 449414.46
3759002.21	0.02658c (12121708)	
449418.33	3759002.21	0.02584c (12121708) 449422.20
3759002.21	0.02513c (12121708)	
449426.07	3759002.21	0.02446c (12121708) 449429.94
3759002.21	0.02382c (12121708)	
449433.81	3759002.21	0.02320c (12121708) 449437.68

3759002.21	0.02261c (12121708)	
449441.55	3759002.21	0.02205c (12121708) 449445.42
3759002.21	0.02151c (12121708)	
449368.02	3759016.25	0.04031c (12121708) 449371.89
3759016.25	0.03864c (12121708)	
449375.76	3759016.25	0.03710c (12121708) 449379.63
3759016.25	0.03568c (12121708)	
449383.50	3759016.25	0.03445 (14121224) 449387.37
3759016.25	0.03319c (12121708)	
449391.24	3759016.25	0.03206c (12121708) 449395.11
3759016.25	0.03101c (12121708)	
449398.98	3759016.25	0.03002c (12121708) 449402.85
3759016.25	0.02909c (12121708)	
449406.72	3759016.25	0.02821c (12121708) 449410.59
3759016.25	0.02738c (12121708)	
449414.46	3759016.25	0.02659c (12121708) 449418.33
3759016.25	0.02585c (12121708)	
449422.20	3759016.25	0.02514c (12121708) 449426.07
3759016.25	0.02447c (12121708)	
449429.94	3759016.25	0.02382c (12121708) 449433.81
3759016.25	0.02321c (12121708)	
449437.68	3759016.25	0.02263c (12121708) 449441.55
3759016.25	0.02207c (12121708)	
449445.42	3759016.25	0.02153c (12121708) 449368.02
3759030.29	0.04042c (12121708)	

^ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14172
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 *** 11:28:21

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION

 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

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

**

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

ALL HIGH 1ST HIGH VALUE IS 0.04939 ON 13020301: AT (449368.02,
 3759016.25, 199.00, 199.00, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 8-HR

RESULTS ***

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

**

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

ALL HIGH 1ST HIGH VALUE IS 0.04051c ON 12121708: AT (449368.02,
 3759044.33, 198.07, 198.07, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 *** ***
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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 1638 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified (1.37 Percent)

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

** Lakes Environmental AERMOD MPI
**

**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.

** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ADI
**

**

**

** AERMOD CONTROL PATHWAY

**

**

CO STARTING

TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC

MODELOPT DFAULT CONC

AVERTIME 1

URBANOPT 2189641

POLLUTID NO2

RUNORNOT RUN

ERRORFIL NO2.ERR

CO FINISHED

**

** AERMOD SOURCE PATHWAY

**

**

SO STARTING

** SOURCE LOCATION **

** SOURCE ID - TYPE - X COORD. - Y COORD. **

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE1

** DESCRSRC I-15 FREEWAY

** PREFIX

** LENGTH OF SIDE = 46.00

** CONFIGURATION = ADJACENT

** EMISSION RATE = 0.35171

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 2

** 449288.372, 3758373.924, 188.51, 3.49, 21.40

** 449298.585, 3759554.578, 201.92, 3.49, 21.40

**

LOCATION L000001	VOLUME	449288.571	3758396.923	188.77
LOCATION L000002	VOLUME	449288.969	3758442.921	189.29
LOCATION L000003	VOLUME	449289.367	3758488.920	189.82
LOCATION L000004	VOLUME	449289.765	3758534.918	190.34
LOCATION L000005	VOLUME	449290.163	3758580.916	190.86
LOCATION L000006	VOLUME	449290.561	3758626.914	191.38
LOCATION L000007	VOLUME	449290.958	3758672.913	191.91

LOCATION L0000008	VOLUME	449291.356	3758718.911	192.43
LOCATION L0000009	VOLUME	449291.754	3758764.909	192.95
LOCATION L0000010	VOLUME	449292.152	3758810.908	193.47
LOCATION L0000011	VOLUME	449292.550	3758856.906	194.00
LOCATION L0000012	VOLUME	449292.948	3758902.904	194.52
LOCATION L0000013	VOLUME	449293.346	3758948.902	195.04
LOCATION L0000014	VOLUME	449293.744	3758994.901	195.56
LOCATION L0000015	VOLUME	449294.142	3759040.899	196.09
LOCATION L0000016	VOLUME	449294.540	3759086.897	196.61
LOCATION L0000017	VOLUME	449294.938	3759132.895	197.13
LOCATION L0000018	VOLUME	449295.335	3759178.894	197.65
LOCATION L0000019	VOLUME	449295.733	3759224.892	198.18
LOCATION L0000020	VOLUME	449296.131	3759270.890	198.70
LOCATION L0000021	VOLUME	449296.529	3759316.889	199.22
LOCATION L0000022	VOLUME	449296.927	3759362.887	199.74
LOCATION L0000023	VOLUME	449297.325	3759408.885	200.27
LOCATION L0000024	VOLUME	449297.723	3759454.883	200.79
LOCATION L0000025	VOLUME	449298.121	3759500.882	201.31
LOCATION L0000026	VOLUME	449298.519	3759546.880	201.83

** END OF LINE VOLUME SOURCE ID = SLINE1

** SOURCE PARAMETERS **

** LINE VOLUME SOURCE ID = SLINE1

SRCPARAM L0000001	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000002	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000003	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000004	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000005	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000006	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000007	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000008	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000009	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000010	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000011	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000012	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000013	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000014	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000015	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000016	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000017	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000018	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000019	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000020	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000021	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000022	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000023	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000024	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000025	0.0135273077	3.49	21.40	3.25
SRCPARAM L0000026	0.0135273077	3.49	21.40	3.25

** -----

URBANSRC ALL


```

SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD RECEPTOR PATHWAY
*****
**
**
RE STARTING
  INCLUDED NO2.ROU
RE FINISHED
**
*****
** AERMOD METEOROLOGY PATHWAY
*****
**
**
ME STARTING
  SURFFILE  ..\KRAL_V9_ADJU\KRAL_V9.SFC
  PROFFILE  ..\KRAL_V9_ADJU\KRAL_V9.PFL
  SURFDATA  3171 2012
  UAIRDATA  3190 2012
  PROFBASE  245.0 METERS
ME FINISHED
**
*****
** AERMOD OUTPUT PATHWAY
*****
**
**
OU STARTING
  RECTABLE  ALLAVE 1ST
  RECTABLE  1 1ST
** AUTO-GENERATED PLOTFILES
  PLOTFILE   1 ALL 1ST NO2.AD\01H1GALL.PLT 31
  SUMMFILE  NO2.SUM
OU FINISHED

```

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

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

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

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

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

ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50

ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 12:13:28

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s),
for Total of 1 Urban Area(s):

Urban Population = 2189641.0 ; 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. Full Conversion Assumed for NO2.
7. 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: NO2

**Note that special processing requirements apply for the 1-hour NO2 NAAQS - check available guidance.

Model will process user-specified ranks of daily maximum 1-hour values averaged across the number of years modeled.

For annual NO2 NAAQS modeling, the multi-year maximum of PERIOD values can be simulated using the MULTYEAR keyword.

Multi-year PERIOD and 1-hour values should only be done in a single model run using the MULTYEAR option with a single multi-year meteorological data file using STARTEND keyword.

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

**This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 26 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 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 Highest Short Term Values by Receptor (RECTABLE Keyword)

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ;
 Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: NO2.ERR

**File for Summary of Results: NO2.SUM

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 *** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.			(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		BY						
L0000001		0	0.13527E-01	449288.6	3758396.9	188.8	3.49	21.40
3.25	YES							
L0000002		0	0.13527E-01	449289.0	3758442.9	189.3	3.49	21.40
3.25	YES							
L0000003		0	0.13527E-01	449289.4	3758488.9	189.8	3.49	21.40
3.25	YES							
L0000004		0	0.13527E-01	449289.8	3758534.9	190.3	3.49	21.40
3.25	YES							
L0000005		0	0.13527E-01	449290.2	3758580.9	190.9	3.49	21.40
3.25	YES							
L0000006		0	0.13527E-01	449290.6	3758626.9	191.4	3.49	21.40
3.25	YES							
L0000007		0	0.13527E-01	449291.0	3758672.9	191.9	3.49	21.40
3.25	YES							
L0000008		0	0.13527E-01	449291.4	3758718.9	192.4	3.49	21.40

3.25	YES							
L0000009		0	0.13527E-01	449291.8	3758764.9	193.0	3.49	21.40
3.25	YES							
L0000010		0	0.13527E-01	449292.2	3758810.9	193.5	3.49	21.40
3.25	YES							
L0000011		0	0.13527E-01	449292.5	3758856.9	194.0	3.49	21.40
3.25	YES							
L0000012		0	0.13527E-01	449292.9	3758902.9	194.5	3.49	21.40
3.25	YES							
L0000013		0	0.13527E-01	449293.3	3758948.9	195.0	3.49	21.40
3.25	YES							
L0000014		0	0.13527E-01	449293.7	3758994.9	195.6	3.49	21.40
3.25	YES							
L0000015		0	0.13527E-01	449294.1	3759040.9	196.1	3.49	21.40
3.25	YES							
L0000016		0	0.13527E-01	449294.5	3759086.9	196.6	3.49	21.40
3.25	YES							
L0000017		0	0.13527E-01	449294.9	3759132.9	197.1	3.49	21.40
3.25	YES							
L0000018		0	0.13527E-01	449295.3	3759178.9	197.7	3.49	21.40
3.25	YES							
L0000019		0	0.13527E-01	449295.7	3759224.9	198.2	3.49	21.40
3.25	YES							
L0000020		0	0.13527E-01	449296.1	3759270.9	198.7	3.49	21.40
3.25	YES							
L0000021		0	0.13527E-01	449296.5	3759316.9	199.2	3.49	21.40
3.25	YES							
L0000022		0	0.13527E-01	449296.9	3759362.9	199.7	3.49	21.40
3.25	YES							
L0000023		0	0.13527E-01	449297.3	3759408.9	200.3	3.49	21.40
3.25	YES							
L0000024		0	0.13527E-01	449297.7	3759454.9	200.8	3.49	21.40
3.25	YES							
L0000025		0	0.13527E-01	449298.1	3759500.9	201.3	3.49	21.40
3.25	YES							
L0000026		0	0.13527E-01	449298.5	3759546.9	201.8	3.49	21.40

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

```

-----
ALL      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 ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

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URBAN ID      URBAN POP      SOURCE IDs
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L0000005      2189641. L0000001 , L0000002 , L0000003 , L0000004 ,
L0000008      , L0000006 , L0000007 ,

L0000014      L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
, L0000015 , L0000016 ,

L0000022      L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
, L0000023 , L0000024 ,

L0000025      , L0000026 ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(METERS)

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(449399.0, 3758763.5, 190.1, 190.1, 0.0); (449402.8, 3758763.5, 189.9, 189.9, 0.0);
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(449379.6, 3758777.6, 191.0, 195.0, 0.0); (449383.5, 3758777.6, 190.8, 195.0, 0.0);
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(449426.1, 3758777.6, 188.5, 188.5, 0.0); (449429.9, 3758777.6, 188.4, 188.4, 0.0);
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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
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*** AERMET - VERSION 16216 *** ***
*** 12:13:28

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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(449429.9, 3758875.8, 191.0, 191.0, 0.0);	(449433.8, 3758875.8, 190.7, 190.7, 0.0);
(449437.7, 3758875.8, 190.4, 190.4, 0.0);	(449441.5, 3758875.8, 190.2, 190.2, 0.0);
(449445.4, 3758875.8, 190.1, 190.1, 0.0);	(449368.0, 3758889.9, 195.2, 195.2, 0.0);
(449371.9, 3758889.9, 195.0, 195.0, 0.0);	(449375.8, 3758889.9, 194.9, 194.9, 0.0);
(449379.6, 3758889.9, 194.8, 194.8, 0.0);	(449383.5, 3758889.9, 194.5, 194.5, 0.0);
(449387.4, 3758889.9, 194.3, 194.3, 0.0);	(449391.2, 3758889.9, 194.0, 194.0, 0.0);
(449395.1, 3758889.9, 193.7, 193.7, 0.0);	(449399.0, 3758889.9, 193.5, 193.5, 0.0);
(449402.8, 3758889.9, 193.2, 193.2, 0.0);	(449406.7, 3758889.9, 193.0, 193.0, 0.0);
(449410.6, 3758889.9, 192.7, 192.7, 0.0);	(449414.5, 3758889.9, 192.5, 192.5, 0.0);
(449418.3, 3758889.9, 192.2, 192.2, 0.0);	(449422.2, 3758889.9, 191.9, 191.9, 0.0);
(449426.1, 3758889.9, 191.7, 191.7, 0.0);	(449429.9, 3758889.9, 191.4, 191.4, 0.0);
(449433.8, 3758889.9, 191.2, 191.2, 0.0);	(449437.7, 3758889.9, 190.9, 190.9, 0.0);
(449441.5, 3758889.9, 190.7, 190.7, 0.0);	(449445.4, 3758889.9, 190.6, 190.6, 0.0);
(449368.0, 3758903.9, 195.8, 195.8, 0.0);	(449371.9, 3758903.9, 195.7, 195.7, 0.0);
(449375.8, 3758903.9, 195.6, 195.6, 0.0);	(449379.6, 3758903.9, 195.5, 195.5, 0.0);
(449383.5, 3758903.9, 195.2, 195.2, 0.0);	(449387.4, 3758903.9, 195.0, 195.0, 0.0);
(449391.2, 3758903.9, 194.7, 194.7, 0.0);	(449395.1, 3758903.9, 194.5, 194.5, 0.0);
(449399.0, 3758903.9, 194.2, 194.2, 0.0);	(449402.8, 3758903.9, 194.0, 194.0, 0.0);
(449406.7, 3758903.9, 193.7, 193.7, 0.0);	(449410.6, 3758903.9, 193.4, 193.4, 0.0);
(449414.5, 3758903.9, 193.1, 193.1, 0.0);	(449418.3, 3758903.9, 192.8, 192.8, 0.0);

(449422.2, 3758903.9, 192.6, 192.6, 0.0); (449426.1,
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(449429.9, 3758903.9, 192.0, 192.0, 0.0); (449433.8,
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(449387.4, 3758918.0, 195.9, 195.9, 0.0); (449391.2,
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(449395.1, 3758918.0, 195.4, 195.4, 0.0); (449399.0,
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(449402.8, 3758918.0, 194.9, 194.9, 0.0); (449406.7,
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(449418.3, 3758918.0, 193.6, 195.0, 0.0); (449422.2,
3758918.0, 193.3, 195.0, 0.0);
(449426.1, 3758918.0, 192.9, 195.0, 0.0); (449429.9,
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(449433.8, 3758918.0, 192.2, 195.0, 0.0); (449437.7,
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(449441.5, 3758918.0, 191.7, 195.0, 0.0); (449445.4,
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(449368.0, 3758932.0, 197.2, 197.2, 0.0); (449371.9,
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(449375.8, 3758932.0, 197.2, 197.2, 0.0); (449379.6,
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(449383.5, 3758932.0, 196.9, 196.9, 0.0); (449387.4,
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(449391.2, 3758932.0, 196.4, 196.4, 0.0); (449395.1,
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(449399.0, 3758932.0, 195.9, 195.9, 0.0); (449402.8,
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(449406.7, 3758932.0, 195.4, 195.4, 0.0); (449410.6,
3758932.0, 195.1, 195.1, 0.0);
(449414.5, 3758932.0, 194.7, 194.7, 0.0); (449418.3,
3758932.0, 194.3, 194.3, 0.0);
(449422.2, 3758932.0, 193.9, 193.9, 0.0); (449426.1,
3758932.0, 193.5, 193.5, 0.0);
(449429.9, 3758932.0, 193.1, 193.1, 0.0); (449433.8,
3758932.0, 192.8, 192.8, 0.0);

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
*** 11/11/21

*** AERMET - VERSION 16216 *** ***
*** 12:13:28

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449437.7, 3758932.0, 192.4, 192.4, 0.0);	(449441.5,
3758932.0, 192.1, 192.1, 0.0);	
(449445.4, 3758932.0, 192.0, 192.0, 0.0);	(449368.0,
3758946.0, 197.7, 197.7, 0.0);	
(449371.9, 3758946.0, 197.7, 197.7, 0.0);	(449375.8,
3758946.0, 197.7, 197.7, 0.0);	
(449379.6, 3758946.0, 197.7, 197.7, 0.0);	(449383.5,
3758946.0, 197.4, 197.4, 0.0);	
(449387.4, 3758946.0, 197.1, 197.1, 0.0);	(449391.2,
3758946.0, 196.9, 196.9, 0.0);	
(449395.1, 3758946.0, 196.6, 196.6, 0.0);	(449399.0,
3758946.0, 196.4, 196.4, 0.0);	
(449402.8, 3758946.0, 196.1, 196.1, 0.0);	(449406.7,
3758946.0, 195.8, 195.8, 0.0);	
(449410.6, 3758946.0, 195.5, 195.5, 0.0);	(449414.5,
3758946.0, 195.2, 195.2, 0.0);	
(449418.3, 3758946.0, 194.8, 194.8, 0.0);	(449422.2,
3758946.0, 194.4, 194.4, 0.0);	
(449426.1, 3758946.0, 194.0, 196.0, 0.0);	(449429.9,
3758946.0, 193.6, 196.0, 0.0);	
(449433.8, 3758946.0, 193.2, 196.0, 0.0);	(449437.7,
3758946.0, 192.8, 196.0, 0.0);	
(449441.5, 3758946.0, 192.5, 196.0, 0.0);	(449445.4,
3758946.0, 192.3, 192.3, 0.0);	
(449368.0, 3758960.1, 198.0, 198.0, 0.0);	(449371.9,
3758960.1, 198.0, 198.0, 0.0);	
(449375.8, 3758960.1, 198.0, 198.0, 0.0);	(449379.6,
3758960.1, 198.0, 198.0, 0.0);	
(449383.5, 3758960.1, 197.8, 197.8, 0.0);	(449387.4,
3758960.1, 197.5, 197.5, 0.0);	
(449391.2, 3758960.1, 197.3, 197.3, 0.0);	(449395.1,
3758960.1, 197.0, 197.0, 0.0);	
(449399.0, 3758960.1, 196.8, 196.8, 0.0);	(449402.8,
3758960.1, 196.5, 196.5, 0.0);	
(449406.7, 3758960.1, 196.3, 196.3, 0.0);	(449410.6,
3758960.1, 196.0, 196.0, 0.0);	
(449414.5, 3758960.1, 195.6, 195.6, 0.0);	(449418.3,
3758960.1, 195.2, 195.2, 0.0);	
(449422.2, 3758960.1, 194.9, 194.9, 0.0);	(449426.1,
3758960.1, 194.5, 194.5, 0.0);	
(449429.9, 3758960.1, 194.1, 194.1, 0.0);	(449433.8,
3758960.1, 193.7, 193.7, 0.0);	

(449437.7, 3758960.1, 193.3, 193.3, 0.0); (449441.5,
 3758960.1, 193.0, 193.0, 0.0);
 (449445.4, 3758960.1, 192.7, 192.7, 0.0); (449368.0,
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 3758974.1, 198.0, 198.0, 0.0);
 (449379.6, 3758974.1, 198.0, 198.0, 0.0); (449383.5,
 3758974.1, 197.8, 197.8, 0.0);
 (449387.4, 3758974.1, 197.6, 197.6, 0.0); (449391.2,
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 (449395.1, 3758974.1, 197.3, 197.3, 0.0); (449399.0,
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 (449402.8, 3758974.1, 196.9, 196.9, 0.0); (449406.7,
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 (449410.6, 3758974.1, 196.5, 196.5, 0.0); (449414.5,
 3758974.1, 196.1, 196.1, 0.0);
 (449418.3, 3758974.1, 195.7, 195.7, 0.0); (449422.2,
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 (449426.1, 3758974.1, 194.9, 197.0, 0.0); (449429.9,
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 (449433.8, 3758974.1, 194.2, 197.0, 0.0); (449437.7,
 3758974.1, 193.8, 197.0, 0.0);
 (449441.5, 3758974.1, 193.4, 197.0, 0.0); (449445.4,
 3758974.1, 193.1, 197.0, 0.0);
 (449368.0, 3758988.2, 198.1, 198.1, 0.0); (449371.9,
 3758988.2, 198.1, 198.1, 0.0);
 (449375.8, 3758988.2, 198.1, 198.1, 0.0); (449379.6,
 3758988.2, 198.1, 198.1, 0.0);
 (449383.5, 3758988.2, 197.9, 197.9, 0.0); (449387.4,
 3758988.2, 197.8, 197.8, 0.0);
 (449391.2, 3758988.2, 197.6, 197.6, 0.0); (449395.1,
 3758988.2, 197.5, 197.5, 0.0);
 (449399.0, 3758988.2, 197.4, 197.4, 0.0); (449402.8,
 3758988.2, 197.2, 197.2, 0.0);
 (449406.7, 3758988.2, 197.1, 197.1, 0.0); (449410.6,
 3758988.2, 196.9, 196.9, 0.0);
 (449414.5, 3758988.2, 196.5, 196.5, 0.0); (449418.3,
 3758988.2, 196.1, 196.1, 0.0);
 (449422.2, 3758988.2, 195.8, 195.8, 0.0); (449426.1,
 3758988.2, 195.4, 195.4, 0.0);
 (449429.9, 3758988.2, 195.0, 195.0, 0.0); (449433.8,
 3758988.2, 194.6, 194.6, 0.0);
 (449437.7, 3758988.2, 194.2, 194.2, 0.0); (449441.5,
 3758988.2, 193.9, 193.9, 0.0);
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 3759002.2, 198.5, 198.5, 0.0);
 (449371.9, 3759002.2, 198.5, 198.5, 0.0); (449375.8,
 3759002.2, 198.5, 198.5, 0.0);

*** AERMET - VERSION 16216 *** ***
*** 12:13:28

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

(449379.6, 3759002.2, 198.5, 198.5, 0.0);	(449383.5,
3759002.2, 198.3, 198.3, 0.0);	
(449387.4, 3759002.2, 198.1, 198.1, 0.0);	(449391.2,
3759002.2, 197.9, 197.9, 0.0);	
(449395.1, 3759002.2, 197.7, 197.7, 0.0);	(449399.0,
3759002.2, 197.5, 197.5, 0.0);	
(449402.8, 3759002.2, 197.3, 197.3, 0.0);	(449406.7,
3759002.2, 197.1, 197.1, 0.0);	
(449410.6, 3759002.2, 196.9, 196.9, 0.0);	(449414.5,
3759002.2, 196.6, 196.6, 0.0);	
(449418.3, 3759002.2, 196.3, 196.3, 0.0);	(449422.2,
3759002.2, 196.0, 196.0, 0.0);	
(449426.1, 3759002.2, 195.6, 195.6, 0.0);	(449429.9,
3759002.2, 195.3, 195.3, 0.0);	
(449433.8, 3759002.2, 195.0, 195.0, 0.0);	(449437.7,
3759002.2, 194.7, 194.7, 0.0);	
(449441.5, 3759002.2, 194.3, 194.3, 0.0);	(449445.4,
3759002.2, 193.9, 193.9, 0.0);	
(449368.0, 3759016.2, 199.0, 199.0, 0.0);	(449371.9,
3759016.2, 199.0, 199.0, 0.0);	
(449375.8, 3759016.2, 199.0, 199.0, 0.0);	(449379.6,
3759016.2, 199.0, 199.0, 0.0);	
(449383.5, 3759016.2, 198.7, 198.7, 0.0);	(449387.4,
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(449391.2, 3759016.2, 198.2, 198.2, 0.0);	(449395.1,
3759016.2, 198.0, 198.0, 0.0);	
(449399.0, 3759016.2, 197.7, 197.7, 0.0);	(449402.8,
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(449406.7, 3759016.2, 197.2, 197.2, 0.0);	(449410.6,
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(449414.5, 3759016.2, 196.7, 196.7, 0.0);	(449418.3,
3759016.2, 196.4, 196.4, 0.0);	
(449422.2, 3759016.2, 196.2, 196.2, 0.0);	(449426.1,
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(449429.9, 3759016.2, 195.6, 195.6, 0.0);	(449433.8,
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(449437.7, 3759016.2, 195.1, 195.1, 0.0);	(449441.5,
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( 449418.3, 3759030.3, 196.1, 196.1, 0.0); ( 449422.2,
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( 449426.1, 3759030.3, 195.7, 195.7, 0.0); ( 449429.9,
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( 449433.8, 3759030.3, 195.3, 195.3, 0.0); ( 449437.7,
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( 449383.5, 3759044.3, 197.8, 197.8, 0.0); ( 449387.4,
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( 449399.0, 3759044.3, 196.8, 196.8, 0.0); ( 449402.8,
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( 449406.7, 3759044.3, 196.2, 196.2, 0.0); ( 449410.6,
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( 449414.5, 3759044.3, 195.9, 195.9, 0.0); ( 449418.3,
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( 449422.2, 3759044.3, 195.6, 195.6, 0.0); ( 449426.1,
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( 449429.9, 3759044.3, 195.3, 195.3, 0.0); ( 449433.8,
3759044.3, 195.2, 195.2, 0.0);
( 449437.7, 3759044.3, 195.1, 195.1, 0.0); ( 449441.5,
3759044.3, 194.8, 194.8, 0.0);
( 449445.4, 3759044.3, 194.4, 194.4, 0.0);

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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 12:13:28

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```

12 01 01 1 21 -19.7 0.206 -9.000 -9.000 -999. 225. 46.9 0.15 2.40
1.00 2.30 95. 10.1 290.9 2.0
12 01 01 1 22 -17.6 0.190 -9.000 -9.000 -999. 199. 39.8 0.15 2.40
1.00 2.13 78. 10.1 290.4 2.0
12 01 01 1 23 -20.3 0.211 -9.000 -9.000 -999. 233. 49.0 0.15 2.40
1.00 2.35 52. 10.1 289.2 2.0
12 01 01 1 24 -16.4 0.183 -9.000 -9.000 -999. 189. 37.0 0.15 2.40
1.00 2.06 75. 10.1 288.8 2.0

```

First hour of profile data

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YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
12 01 01 01 10.1 1 55. 2.93 288.2 99.0 -99.00 -99.00

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F indicates top of profile (=1) or below (=0)

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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
*** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 12:13:28

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES AVERAGED
OVER 5 YEARS FOR SOURCE GROUP: ALL ***

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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
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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF NO2 IN MICROGRAMS/M**3

**

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X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
-----
449368.02 3758763.53 19.88545 449371.89
3758763.53 18.97873
449375.76 3758763.53 18.18844 449379.63
3758763.53 17.45416
449383.50 3758763.53 16.78344 449387.37
3758763.53 16.16123

```

449391.24	3758763.53	15.58080	449395.11
3758763.53	15.03878		
449398.98	3758763.53	14.53135	449402.85
3758763.53	14.05530		
449406.72	3758763.53	13.60839	449410.59
3758763.53	13.18938		
449414.46	3758763.53	12.79959	449418.33
3758763.53	12.43087		
449422.20	3758763.53	12.08155	449426.07
3758763.53	11.75009		
449429.94	3758763.53	11.43514	449433.81
3758763.53	11.13545		
449437.68	3758763.53	10.84992	449441.55
3758763.53	10.57976		
449445.42	3758763.53	10.32530	449368.02
3758777.57	19.92745		
449371.89	3758777.57	19.01536	449375.76
3758777.57	18.20893		
449379.63	3758777.57	17.46202	449383.50
3758777.57	16.79096		
449387.37	3758777.57	16.16765	449391.24
3758777.57	15.58809		
449395.11	3758777.57	15.04606	449398.98
3758777.57	14.53877		
449402.85	3758777.57	14.06288	449406.72
3758777.57	13.61552		
449410.59	3758777.57	13.19708	449414.46
3758777.57	12.80917		
449418.33	3758777.57	12.44151	449422.20
3758777.57	12.09311		
449426.07	3758777.57	11.76248	449429.94
3758777.57	11.44825		
449433.81	3758777.57	11.15004	449437.68
3758777.57	10.86965		
449441.55	3758777.57	10.60487	449445.42
3758777.57	10.35365		
449368.02	3758791.61	19.98398	449371.89
3758791.61	19.07556		
449375.76	3758791.61	18.28005	449379.63
3758791.61	17.54250		
449383.50	3758791.61	16.86932	449387.37
3758791.61	16.24388		
449391.24	3758791.61	15.66139	449395.11
3758791.61	15.11824		
449398.98	3758791.61	14.60909	449402.85
3758791.61	14.13142		
449406.72	3758791.61	13.68236	449410.59
3758791.61	13.26214		
449414.46	3758791.61	12.87151	449418.33
3758791.61	12.50199		

449422.20	3758791.61	12.15245	449426.07
3758791.61	11.82018		
449429.94	3758791.61	11.50442	449433.81
3758791.61	11.20907		
449437.68	3758791.61	10.92750	449441.55
3758791.61	10.65985		
449445.42	3758791.61	10.40553	449368.02
3758805.65	20.04236		
449371.89	3758805.65	19.13840	449375.76
3758805.65	18.34895		
449379.63	3758805.65	17.61973	449383.50
3758805.65	16.94409		
449387.37	3758805.65	16.31641	449391.24
3758805.65	15.73174		
449395.11	3758805.65	15.18578	449398.98
3758805.65	14.67544		
449402.85	3758805.65	14.19599	449406.72
3758805.65	13.74525		
449410.59	3758805.65	13.32328	449414.46
3758805.65	12.93067		
449418.33	3758805.65	12.55930	449422.20
3758805.65	12.20748		
449426.07	3758805.65	11.87367	449429.94
3758805.65	11.56060		

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
 *** 11/11/21
*** AERMET - VERSION 16216 *** ***
 *** 12:13:28

PAGE 13

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST-HIGHEST MAX DAILY 1-HR 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
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF NO2 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
-------------	-------------	------	-------------

Y-COORD (M)	CONC		
449433.81	3758805.65	11.26419	449437.68
3758805.65	10.98150		
449441.55	3758805.65	10.71158	449445.42
3758805.65	10.45354		
449368.02	3758819.69	20.08166	449371.89
3758819.69	19.17893		
449375.76	3758819.69	18.38783	449379.63
3758819.69	17.65644		
449383.50	3758819.69	16.97916	449387.37
3758819.69	16.35002		
449391.24	3758819.69	15.76413	449395.11
3758819.69	15.21784		
449398.98	3758819.69	14.70583	449402.85
3758819.69	14.22554		
449406.72	3758819.69	13.77406	449410.59
3758819.69	13.35152		
449414.46	3758819.69	12.95856	449418.33
3758819.69	12.58687		
449422.20	3758819.69	12.23473	449426.07
3758819.69	11.90518		
449429.94	3758819.69	11.59357	449433.81
3758819.69	11.29676		
449437.68	3758819.69	11.01369	449441.55
3758819.69	10.74339		
449445.42	3758819.69	10.48499	449368.02
3758833.73	20.11286		
449371.89	3758833.73	19.21035	449375.76
3758833.73	18.41803		
449379.63	3758833.73	17.68554	449383.50
3758833.73	17.00726		
449387.37	3758833.73	16.37725	449391.24
3758833.73	15.79058		
449395.11	3758833.73	15.24364	449398.98
3758833.73	14.73101		
449402.85	3758833.73	14.25016	449406.72
3758833.73	13.79816		
449410.59	3758833.73	13.37523	449414.46
3758833.73	12.98211		
449418.33	3758833.73	12.61025	449422.20
3758833.73	12.26185		
449426.07	3758833.73	11.93439	449429.94
3758833.73	11.62243		
449433.81	3758833.73	11.32529	449437.68
3758833.73	11.04189		
449441.55	3758833.73	10.77128	449445.42
3758833.73	10.51258		
449368.02	3758847.77	20.21774	449371.89

3758847.77	19.29921			
	449375.76	3758847.77	18.50535	449379.63
3758847.77	17.77408			
	449383.50	3758847.77	17.09420	449387.37
3758847.77	16.46282			
	449391.24	3758847.77	15.87394	449395.11
3758847.77	15.32399			
	449398.98	3758847.77	14.80917	449402.85
3758847.77	14.32620			
	449406.72	3758847.77	13.87278	449410.59
3758847.77	13.44630			
	449414.46	3758847.77	13.04739	449418.33
3758847.77	12.67082			
	449422.20	3758847.77	12.31800	449426.07
3758847.77	11.98630			
	449429.94	3758847.77	11.67086	449433.81
3758847.77	11.37045			
	449437.68	3758847.77	11.08399	449441.55
3758847.77	10.81171			
	449445.42	3758847.77	10.55219	449368.02
3758861.81	20.32777			
	449371.89	3758861.81	19.40373	449375.76
3758861.81	18.57417			
	449379.63	3758861.81	17.84676	449383.50
3758861.81	17.16982			
	449387.37	3758861.81	16.53913	449391.24
3758861.81	15.95237			
	449395.11	3758861.81	15.40204	449398.98
3758861.81	14.88694			
	449402.85	3758861.81	14.40252	449406.72
3758861.81	13.94727			
	449410.59	3758861.81	13.51851	449414.46
3758861.81	13.11442			

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
      ***                               11/11/21
*** AERMET - VERSION 16216 ***      ***
      ***                               12:13:28

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST-HIGHEST MAX DAILY 1-HR 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

*** DISCRETE CARTESIAN RECEPTOR POINTS

		** CONC OF NO2	IN MICROGRAMS/M**3
**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449418.33	3758861.81	12.73230	449422.20
3758861.81	12.37488		
449426.07	3758861.81	12.03975	449429.94
3758861.81	11.72064		
449433.81	3758861.81	11.41674	449437.68
3758861.81	11.12695		
449441.55	3758861.81	10.85258	449445.42
3758861.81	10.59217		
449368.02	3758875.85	20.39402	449371.89
3758875.85	19.47642		
449375.76	3758875.85	18.63437	449379.63
3758875.85	17.90050		
449383.50	3758875.85	17.21589	449387.37
3758875.85	16.58350		
449391.24	3758875.85	15.99821	449395.11
3758875.85	15.44913		
449398.98	3758875.85	14.93531	449402.85
3758875.85	14.45158		
449406.72	3758875.85	13.99614	449410.59
3758875.85	13.56658		
449414.46	3758875.85	13.16087	449418.33
3758875.85	12.77754		
449422.20	3758875.85	12.41997	449426.07
3758875.85	12.08281		
449429.94	3758875.85	11.76213	449433.81
3758875.85	11.45671		
449437.68	3758875.85	11.16582	449441.55
3758875.85	10.89028		
449445.42	3758875.85	10.62902	449368.02
3758889.89	20.44410		
449371.89	3758889.89	19.53366	449375.76
3758889.89	18.69120		
449379.63	3758889.89	17.95301	449383.50
3758889.89	17.25869		
449387.37	3758889.89	16.62573	449391.24
3758889.89	16.03395		
449395.11	3758889.89	15.48500	449398.98
3758889.89	14.97206		

449402.85	3758889.89	14.48846	449406.72
3758889.89	14.03379		
449410.59	3758889.89	13.60387	449414.46
3758889.89	13.19802		
449418.33	3758889.89	12.81368	449422.20
3758889.89	12.45790		
449426.07	3758889.89	12.12005	449429.94
3758889.89	11.79872		
449433.81	3758889.89	11.49265	449437.68
3758889.89	11.20077		
449441.55	3758889.89	10.92485	449445.42
3758889.89	10.66280		
449368.02	3758903.93	20.45482	449371.89
3758903.93	19.54730		
449375.76	3758903.93	18.72815	449379.63
3758903.93	17.99785		
449383.50	3758903.93	17.31880	449387.37
3758903.93	16.68431		
449391.24	3758903.93	16.08532	449395.11
3758903.93	15.52319		
449398.98	3758903.93	15.00874	449402.85
3758903.93	14.52363		
449406.72	3758903.93	14.07022	449410.59
3758903.93	13.64266		
449414.46	3758903.93	13.23647	449418.33
3758903.93	12.85420		
449422.20	3758903.93	12.49701	449426.07
3758903.93	12.15763		
449429.94	3758903.93	11.83473	449433.81
3758903.93	11.52709		
449437.68	3758903.93	11.23365	449441.55
3758903.93	10.95603		
449445.42	3758903.93	10.69356	449368.02
3758917.97	20.43635		
449371.89	3758917.97	19.52910	449375.76
3758917.97	18.75192		
449379.63	3758917.97	18.04707	449383.50
3758917.97	17.33505		
449387.37	3758917.97	16.71228	449391.24
3758917.97	16.13086		
449395.11	3758917.97	15.58097	449398.98
3758917.97	15.06045		

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^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
      ***                               11/11/21
*** AERMET - VERSION 16216 ***   ***
      ***                               12:13:28

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*** THE 1ST-HIGHEST MAX DAILY 1-HR 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

**		** CONC OF NO2	IN MICROGRAMS/M**3
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449402.85	3758917.97	14.57025	449406.72
3758917.97	14.10738		
449410.59	3758917.97	13.67345	449414.46
3758917.97	13.27144		
449418.33	3758917.97	12.89406	449422.20
3758917.97	12.53535		
449426.07	3758917.97	12.19416	449429.94
3758917.97	11.86889		
449433.81	3758917.97	11.55907	449437.68
3758917.97	11.26337		
449441.55	3758917.97	10.98454	449445.42
3758917.97	10.72104		
449368.02	3758932.01	20.61749	449371.89
3758932.01	19.78024		
449375.76	3758932.01	19.05139	449379.63
3758932.01	18.37452		
449383.50	3758932.01	17.74079	449387.37
3758932.01	16.84125		
449391.24	3758932.01	16.28629	449395.11
3758932.01	15.61218		
449398.98	3758932.01	15.11834	449402.85
3758932.01	14.60832		
449406.72	3758932.01	14.14963	449410.59
3758932.01	13.71117		
449414.46	3758932.01	13.30075	449418.33
3758932.01	12.92365		
449422.20	3758932.01	12.56508	449426.07
3758932.01	12.22365		
449429.94	3758932.01	11.89769	449433.81

3758932.01	11.58669			
	449437.68	3758932.01	11.28995	449441.55
3758932.01	11.00976			
	449445.42	3758932.01	10.74477	449368.02
3758946.05	20.92981			
	449371.89	3758946.05	20.17273	449375.76
3758946.05	19.51588			
	449379.63	3758946.05	18.90834	449383.50
3758946.05	17.76856			
	449387.37	3758946.05	17.18534	449391.24
3758946.05	16.30124			
	449395.11	3758946.05	15.77743	449398.98
3758946.05	15.12647			
	449402.85	3758946.05	14.66375	449406.72
3758946.05	14.17128			
	449410.59	3758946.05	13.74191	449414.46
3758946.05	13.32304			
	449418.33	3758946.05	12.94565	449422.20
3758946.05	12.58730			
	449426.07	3758946.05	12.24629	449429.94
3758946.05	11.92067			
	449433.81	3758946.05	11.60968	449437.68
3758946.05	11.31260			
	449441.55	3758946.05	11.03124	449445.42
3758946.05	10.76436			
	449368.02	3758960.09	21.55934	449371.89
3758960.09	20.95648			
	449375.76	3758960.09	20.38496	449379.63
3758960.09	19.83383			
	449383.50	3758960.09	18.27346	449387.37
3758960.09	17.68168			
	449391.24	3758960.09	16.64625	449395.11
3758960.09	16.12664			
	449398.98	3758960.09	15.29454	449402.85
3758960.09	14.83112			
	449406.72	3758960.09	14.23197	449410.59
3758960.09	13.83522			
	449414.46	3758960.09	13.34864	449418.33
3758960.09	12.96355			
	449422.20	3758960.09	12.60590	449426.07
3758960.09	12.26524			
	449429.94	3758960.09	11.94018	449433.81
3758960.09	11.62955			
	449437.68	3758960.09	11.33249	449441.55
3758960.09	11.05076			
	449445.42	3758960.09	10.78776	449368.02
3758974.13	21.36812			
	449371.89	3758974.13	20.69089	449375.76
3758974.13	20.13184			
	449379.63	3758974.13	19.59497	449383.50

3758974.13 18.17693

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
*** 11/11/21

*** AERMET - VERSION 16216 *** ***
*** 12:13:28

PAGE 16

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST-HIGHEST MAX DAILY 1-HR 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
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF NO2 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449387.37	3758974.13	17.60350	449391.24
3758974.13	17.06292		
449395.11	3758974.13	16.11786	449398.98
3758974.13	15.63584		
449402.85	3758974.13	14.83591	449406.72
3758974.13	14.40918		
449410.59	3758974.13	14.00618	449414.46
3758974.13	13.45620		
449418.33	3758974.13	12.99397	449422.20
3758974.13	12.62124		
449426.07	3758974.13	12.28220	449429.94
3758974.13	11.95620		
449433.81	3758974.13	11.64602	449437.68
3758974.13	11.35177		
449441.55	3758974.13	11.07543	449445.42
3758974.13	10.81238		
449368.02	3758988.17	21.26148	449371.89
3758988.17	20.49453		
449375.76	3758988.17	19.91967	449379.63
3758988.17	19.40200		

449383.50	3758988.17	18.11041	449387.37
3758988.17	17.55246		
449391.24	3758988.17	17.02208	449395.11
3758988.17	16.52419		
449398.98	3758988.17	15.63702	449402.85
3758988.17	15.19186		
449406.72	3758988.17	14.77813	449410.59
3758988.17	14.02218		
449414.46	3758988.17	13.62211	449418.33
3758988.17	13.09691		
449422.20	3758988.17	12.66922	449426.07
3758988.17	12.34596		
449429.94	3758988.17	11.97954	449433.81
3758988.17	11.65913		
449437.68	3758988.17	11.36640	449441.55
3758988.17	11.09110		
449445.42	3758988.17	10.83863	449368.02
3759002.21	22.17049		
449371.89	3759002.21	21.52616	449375.76
3759002.21	20.95238		
449379.63	3759002.21	20.40091	449383.50
3759002.21	18.83645		
449387.37	3759002.21	18.27354	449391.24
3759002.21	17.00066		
449395.11	3759002.21	16.49102	449398.98
3759002.21	16.00166		
449402.85	3759002.21	15.15820	449406.72
3759002.21	14.72473		
449410.59	3759002.21	13.97807	449414.46
3759002.21	13.58628		
449418.33	3759002.21	13.09422	449422.20
3759002.21	12.75677		
449426.07	3759002.21	12.35492	449429.94
3759002.21	11.98844		
449433.81	3759002.21	11.68737	449437.68
3759002.21	11.38246		
449441.55	3759002.21	11.10420	449445.42
3759002.21	10.85513		
449368.02	3759016.25	22.24676	449371.89
3759016.25	21.60528		
449375.76	3759016.25	21.01474	449379.63
3759016.25	20.45799		
449383.50	3759016.25	19.77062	449387.37
3759016.25	18.24498		
449391.24	3759016.25	17.68502	449395.11
3759016.25	16.45706		
449398.98	3759016.25	15.96545	449402.85
3759016.25	15.48820		
449406.72	3759016.25	14.68020	449410.59
3759016.25	14.25418		

	449414.46	3759016.25	13.56371	449418.33
3759016.25	13.19866			
	449422.20	3759016.25	12.75543	449426.07
3759016.25	12.43701			
	449429.94	3759016.25	12.05506	449433.81
3759016.25	11.76096			
	449437.68	3759016.25	11.41763	449441.55
3759016.25	11.12131			
	449445.42	3759016.25	10.86571	449368.02
3759030.29	21.68765			

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:13:28

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST-HIGHEST MAX DAILY 1-HR 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF NO2 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
-----	-----	-----	-----
449371.89	3759030.29	21.01284	449375.76
3759030.29	20.42097		
449379.63	3759030.29	19.87525	449383.50
3759030.29	18.39819		
449387.37	3759030.29	17.80914	449391.24
3759030.29	16.80667		
449395.11	3759030.29	16.28880	449398.98
3759030.29	15.47985		
449402.85	3759030.29	14.99446	449406.72
3759030.29	14.34597		
449410.59	3759030.29	13.91207	449414.46

3759030.29	13.44103			
	449418.33	3759030.29	13.07844	449422.20
3759030.29	12.74353			
	449426.07	3759030.29	12.35706	449429.94
3759030.29	12.05063			
	449433.81	3759030.29	11.70258	449437.68
3759030.29	11.42016			
	449441.55	3759030.29	11.12653	449445.42
3759030.29	10.86896			
	449368.02	3759044.33	21.09154	449371.89
3759044.33	20.23573			
	449375.76	3759044.33	19.46344	449379.63
3759044.33	18.79338			
	449383.50	3759044.33	17.87145	449387.37
3759044.33	17.26092			
	449391.24	3759044.33	16.46980	449395.11
3759044.33	15.92717			
	449398.98	3759044.33	15.24170	449402.85
3759044.33	14.74960			
	449406.72	3759044.33	14.24110	449410.59
3759044.33	13.81077			
	449414.46	3759044.33	13.41712	449418.33
3759044.33	13.00922			
	449422.20	3759044.33	12.67038	449426.07
3759044.33	12.34892			
	449429.94	3759044.33	11.99562	449433.81
3759044.33	11.70136			
	449437.68	3759044.33	11.42015	449441.55
3759044.33	11.12878			
	449445.42	3759044.33	10.86986	

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
 *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:13:28

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM 1ST-HIGHEST MAX DAILY 1-HR
 RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF NO2 IN MICROGRAMS/M**3

**

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

```

-----
ALL      1ST HIGHEST VALUE IS      22.24676 AT ( 449368.02, 3759016.25,
199.00, 199.00,  0.00) DC
198.53, 198.53,  0.00) DC
198.53, 198.53,  0.00) DC
199.00, 199.00,  0.00) DC
198.00, 198.00,  0.00) DC
198.53, 198.53,  0.00) DC
198.00, 198.00,  0.00) DC
198.06, 198.06,  0.00) DC
198.07, 198.07,  0.00) DC
199.00, 199.00,  0.00) DC
2ND HIGHEST VALUE IS      22.17049 AT ( 449368.02, 3759002.21,
3RD HIGHEST VALUE IS      21.68765 AT ( 449368.02, 3759030.29,
4TH HIGHEST VALUE IS      21.60528 AT ( 449371.89, 3759016.25,
5TH HIGHEST VALUE IS      21.55934 AT ( 449368.02, 3758960.09,
6TH HIGHEST VALUE IS      21.52616 AT ( 449371.89, 3759002.21,
7TH HIGHEST VALUE IS      21.36812 AT ( 449368.02, 3758974.13,
8TH HIGHEST VALUE IS      21.26148 AT ( 449368.02, 3758988.17,
9TH HIGHEST VALUE IS      21.09154 AT ( 449368.02, 3759044.33,
10TH HIGHEST VALUE IS     21.01474 AT ( 449375.76, 3759016.25,

```

```

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

```

```

^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172 HRA\NO2\NO2.ISC
    ***                      11/11/21
*** AERMET - VERSION 16216 ***   ***
    ***                      12:13:28

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*** MODELOPTs:   RegDFault  CONC  ELEV  URBAN  ADJ_U*

```

```

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

```

```

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

```

```

A Total of           0 Fatal Error Message(s)
A Total of           2 Warning Message(s)
A Total of          1638 Informational Message(s)

A Total of          43848 Hours Were Processed

A Total of           1039 Calm Hours Identified

A Total of           599 Missing Hours Identified ( 1.37 Percent)

```


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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

** Lakes Environmental AERMOD MPI
**

**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ADI
**

**
**

** AERMOD CONTROL PATHWAY

**
**
CO STARTING
TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\PM10\PM10.ISC
MODELOPT DFAULT CONC
AVERTIME 24 ANNUAL
URBANOPT 2189641
POLLUTID PM_10
RUNORNOT RUN
ERRORFIL PM10.ERR

CO FINISHED
**

** AERMOD SOURCE PATHWAY

**
**

SO STARTING

```

** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** -----
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC I-15 FREEWAY
** PREFIX
** LENGTH OF SIDE = 46.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.193726
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 449288.372, 3758373.924, 188.51, 3.49, 21.40
** 449298.585, 3759554.578, 201.92, 3.49, 21.40
** -----
LOCATION L0000001    VOLUME    449288.571 3758396.923 188.77
LOCATION L0000002    VOLUME    449288.969 3758442.921 189.29
LOCATION L0000003    VOLUME    449289.367 3758488.920 189.82
LOCATION L0000004    VOLUME    449289.765 3758534.918 190.34
LOCATION L0000005    VOLUME    449290.163 3758580.916 190.86
LOCATION L0000006    VOLUME    449290.561 3758626.914 191.38
LOCATION L0000007    VOLUME    449290.958 3758672.913 191.91
LOCATION L0000008    VOLUME    449291.356 3758718.911 192.43
LOCATION L0000009    VOLUME    449291.754 3758764.909 192.95
LOCATION L0000010    VOLUME    449292.152 3758810.908 193.47
LOCATION L0000011    VOLUME    449292.550 3758856.906 194.00
LOCATION L0000012    VOLUME    449292.948 3758902.904 194.52
LOCATION L0000013    VOLUME    449293.346 3758948.902 195.04
LOCATION L0000014    VOLUME    449293.744 3758994.901 195.56
LOCATION L0000015    VOLUME    449294.142 3759040.899 196.09
LOCATION L0000016    VOLUME    449294.540 3759086.897 196.61
LOCATION L0000017    VOLUME    449294.938 3759132.895 197.13
LOCATION L0000018    VOLUME    449295.335 3759178.894 197.65
LOCATION L0000019    VOLUME    449295.733 3759224.892 198.18
LOCATION L0000020    VOLUME    449296.131 3759270.890 198.70
LOCATION L0000021    VOLUME    449296.529 3759316.889 199.22
LOCATION L0000022    VOLUME    449296.927 3759362.887 199.74
LOCATION L0000023    VOLUME    449297.325 3759408.885 200.27
LOCATION L0000024    VOLUME    449297.723 3759454.883 200.79
LOCATION L0000025    VOLUME    449298.121 3759500.882 201.31
LOCATION L0000026    VOLUME    449298.519 3759546.880 201.83
** END OF LINE VOLUME SOURCE ID = SLINE1
** SOURCE PARAMETERS **
** LINE VOLUME SOURCE ID = SLINE1
SRCPARAM L0000001    0.007451    3.49    21.40    3.25
SRCPARAM L0000002    0.007451    3.49    21.40    3.25
SRCPARAM L0000003    0.007451    3.49    21.40    3.25
SRCPARAM L0000004    0.007451    3.49    21.40    3.25
SRCPARAM L0000005    0.007451    3.49    21.40    3.25

```

SRCPARAM L0000006	0.007451	3.49	21.40	3.25
SRCPARAM L0000007	0.007451	3.49	21.40	3.25
SRCPARAM L0000008	0.007451	3.49	21.40	3.25
SRCPARAM L0000009	0.007451	3.49	21.40	3.25
SRCPARAM L0000010	0.007451	3.49	21.40	3.25
SRCPARAM L0000011	0.007451	3.49	21.40	3.25
SRCPARAM L0000012	0.007451	3.49	21.40	3.25
SRCPARAM L0000013	0.007451	3.49	21.40	3.25
SRCPARAM L0000014	0.007451	3.49	21.40	3.25
SRCPARAM L0000015	0.007451	3.49	21.40	3.25
SRCPARAM L0000016	0.007451	3.49	21.40	3.25
SRCPARAM L0000017	0.007451	3.49	21.40	3.25
SRCPARAM L0000018	0.007451	3.49	21.40	3.25
SRCPARAM L0000019	0.007451	3.49	21.40	3.25
SRCPARAM L0000020	0.007451	3.49	21.40	3.25
SRCPARAM L0000021	0.007451	3.49	21.40	3.25
SRCPARAM L0000022	0.007451	3.49	21.40	3.25
SRCPARAM L0000023	0.007451	3.49	21.40	3.25
SRCPARAM L0000024	0.007451	3.49	21.40	3.25
SRCPARAM L0000025	0.007451	3.49	21.40	3.25
SRCPARAM L0000026	0.007451	3.49	21.40	3.25

**

 URBANSRC ALL
 SRCGROUP ALL

SO FINISHED

**

** AERMOD RECEPTOR PATHWAY

**

**

RE STARTING
 INCLUDED PM10.ROU

RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

**

ME STARTING
 SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
 PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL
 SURFDATA 3171 2012
 UAIRDATA 3190 2012
 PROFBASE 245.0 METERS

ME FINISHED

**

** AERMOD OUTPUT PATHWAY

**
**

OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST

** AUTO-GENERATED PLOTFILES
PLOTFILE 24 ALL 1ST PM10.AD\24H1GALL.PLT 31
PLOTFILE ANNUAL ALL PM10.AD\AN00GALL.PLT 32
SUMMFILE PM10.SUM

OU FINISHED

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

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

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

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC *** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 11:46:36

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

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s),
for Total of 1 Urban Area(s):

Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

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

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: PM_10

**Model Calculates 1 Short Term Average(s) of: 24-HR
and Calculates ANNUAL Averages

**This Run Includes: 26 Source(s); 1 Source Group(s); and 441
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 26 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 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 Tables of Highest Short Term Values by Receptor (RECTABLE
 Keyword)
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE
 Keyword)
 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
 Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay
 Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ;
 Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: PM10.ERR

**File for Summary of Results: PM10.SUM

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
 HRA\PM10\PM10.ISC *** 11/11/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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

L0000001	0	0.74510E-02	449288.6	3758396.9	188.8	3.49	21.40
3.25 YES							
L0000002	0	0.74510E-02	449289.0	3758442.9	189.3	3.49	21.40
3.25 YES							
L0000003	0	0.74510E-02	449289.4	3758488.9	189.8	3.49	21.40
3.25 YES							
L0000004	0	0.74510E-02	449289.8	3758534.9	190.3	3.49	21.40
3.25 YES							
L0000005	0	0.74510E-02	449290.2	3758580.9	190.9	3.49	21.40
3.25 YES							
L0000006	0	0.74510E-02	449290.6	3758626.9	191.4	3.49	21.40
3.25 YES							
L0000007	0	0.74510E-02	449291.0	3758672.9	191.9	3.49	21.40
3.25 YES							
L0000008	0	0.74510E-02	449291.4	3758718.9	192.4	3.49	21.40
3.25 YES							
L0000009	0	0.74510E-02	449291.8	3758764.9	193.0	3.49	21.40
3.25 YES							
L0000010	0	0.74510E-02	449292.2	3758810.9	193.5	3.49	21.40
3.25 YES							
L0000011	0	0.74510E-02	449292.5	3758856.9	194.0	3.49	21.40
3.25 YES							
L0000012	0	0.74510E-02	449292.9	3758902.9	194.5	3.49	21.40
3.25 YES							
L0000013	0	0.74510E-02	449293.3	3758948.9	195.0	3.49	21.40
3.25 YES							
L0000014	0	0.74510E-02	449293.7	3758994.9	195.6	3.49	21.40
3.25 YES							
L0000015	0	0.74510E-02	449294.1	3759040.9	196.1	3.49	21.40
3.25 YES							
L0000016	0	0.74510E-02	449294.5	3759086.9	196.6	3.49	21.40
3.25 YES							
L0000017	0	0.74510E-02	449294.9	3759132.9	197.1	3.49	21.40
3.25 YES							
L0000018	0	0.74510E-02	449295.3	3759178.9	197.7	3.49	21.40
3.25 YES							
L0000019	0	0.74510E-02	449295.7	3759224.9	198.2	3.49	21.40
3.25 YES							
L0000020	0	0.74510E-02	449296.1	3759270.9	198.7	3.49	21.40
3.25 YES							
L0000021	0	0.74510E-02	449296.5	3759316.9	199.2	3.49	21.40
3.25 YES							
L0000022	0	0.74510E-02	449296.9	3759362.9	199.7	3.49	21.40
3.25 YES							
L0000023	0	0.74510E-02	449297.3	3759408.9	200.3	3.49	21.40
3.25 YES							
L0000024	0	0.74510E-02	449297.7	3759454.9	200.8	3.49	21.40
3.25 YES							
L0000025	0	0.74510E-02	449298.1	3759500.9	201.3	3.49	21.40
3.25 YES							

L000026 0 0.74510E-02 449298.5 3759546.9 201.8 3.49 21.40
3.25 YES

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC *** 11/11/21

*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID	SOURCE IDs
-----	-----
ALL L000001 , L000002 , L000003 , L000004 , L000005 , L000006 , L000007 , L000008 ,	
L000014 L000009 , L000010 , L000011 , L000012 , L000013 , L000014 , L000015 , L000016 ,	
L000022 L000017 , L000018 , L000019 , L000020 , L000021 , L000022 , L000023 , L000024 ,	
L000025 , L000026 ,	

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC *** 11/11/21

*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L000005 L000005 , L000006 , L000008 ,	2189641.	L000001 , L000002 , L000003 , L000004 , L000005 , L000006 , L000007 ,
L000014 L000009 , L000010 , L000011 , L000012 , L000013 , L000014 , L000015 , L000016 ,		

L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 ,

L0000025 , L0000026 ,
▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC *** 11/11/21
*** AERMET - VERSION 16216 ***
*** 11:46:36

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449368.0, 3758763.5, 192.6, 195.0, 0.0); (449371.9,
3758763.5, 192.2, 195.0, 0.0);
(449375.8, 3758763.5, 191.8, 195.0, 0.0); (449379.6,
3758763.5, 191.4, 195.0, 0.0);
(449383.5, 3758763.5, 191.2, 195.0, 0.0); (449387.4,
3758763.5, 190.9, 195.0, 0.0);
(449391.2, 3758763.5, 190.6, 190.6, 0.0); (449395.1,
3758763.5, 190.4, 190.4, 0.0);
(449399.0, 3758763.5, 190.1, 190.1, 0.0); (449402.8,
3758763.5, 189.9, 189.9, 0.0);
(449406.7, 3758763.5, 189.6, 189.6, 0.0); (449410.6,
3758763.5, 189.4, 189.4, 0.0);
(449414.5, 3758763.5, 189.3, 189.3, 0.0); (449418.3,
3758763.5, 189.1, 189.1, 0.0);
(449422.2, 3758763.5, 189.0, 189.0, 0.0); (449426.1,
3758763.5, 188.9, 188.9, 0.0);
(449429.9, 3758763.5, 188.7, 188.7, 0.0); (449433.8,
3758763.5, 188.6, 188.6, 0.0);
(449437.7, 3758763.5, 188.5, 188.5, 0.0); (449441.5,
3758763.5, 188.4, 188.4, 0.0);
(449445.4, 3758763.5, 188.3, 188.3, 0.0); (449368.0,
3758777.6, 192.5, 195.0, 0.0);
(449371.9, 3758777.6, 192.0, 195.0, 0.0); (449375.8,
3758777.6, 191.5, 195.0, 0.0);
(449379.6, 3758777.6, 191.0, 195.0, 0.0); (449383.5,
3758777.6, 190.8, 195.0, 0.0);
(449387.4, 3758777.6, 190.5, 195.0, 0.0); (449391.2,
3758777.6, 190.3, 195.0, 0.0);
(449395.1, 3758777.6, 190.0, 195.0, 0.0); (449399.0,
3758777.6, 189.7, 195.0, 0.0);
(449402.8, 3758777.6, 189.5, 195.0, 0.0); (449406.7,
3758777.6, 189.2, 195.0, 0.0);
(449410.6, 3758777.6, 189.0, 189.0, 0.0); (449414.5,

3758777.6, 188.9, 188.9, 0.0);
(449418.3, 3758777.6, 188.8, 188.8, 0.0); (449422.2,
3758777.6, 188.6, 188.6, 0.0);
(449426.1, 3758777.6, 188.5, 188.5, 0.0); (449429.9,
3758777.6, 188.4, 188.4, 0.0);
(449433.8, 3758777.6, 188.2, 188.2, 0.0); (449437.7,
3758777.6, 188.1, 188.1, 0.0);
(449441.5, 3758777.6, 188.0, 188.0, 0.0); (449445.4,
3758777.6, 188.0, 188.0, 0.0);
(449368.0, 3758791.6, 192.6, 192.6, 0.0); (449371.9,
3758791.6, 192.3, 195.0, 0.0);
(449375.8, 3758791.6, 191.9, 195.0, 0.0); (449379.6,
3758791.6, 191.5, 195.0, 0.0);
(449383.5, 3758791.6, 191.2, 195.0, 0.0); (449387.4,
3758791.6, 191.0, 191.0, 0.0);
(449391.2, 3758791.6, 190.7, 190.7, 0.0); (449395.1,
3758791.6, 190.5, 190.5, 0.0);
(449399.0, 3758791.6, 190.2, 190.2, 0.0); (449402.8,
3758791.6, 190.0, 190.0, 0.0);
(449406.7, 3758791.6, 189.7, 189.7, 0.0); (449410.6,
3758791.6, 189.5, 189.5, 0.0);
(449414.5, 3758791.6, 189.3, 189.3, 0.0); (449418.3,
3758791.6, 189.2, 189.2, 0.0);
(449422.2, 3758791.6, 189.1, 189.1, 0.0); (449426.1,
3758791.6, 189.0, 189.0, 0.0);
(449429.9, 3758791.6, 188.8, 188.8, 0.0); (449433.8,
3758791.6, 188.7, 188.7, 0.0);
(449437.7, 3758791.6, 188.6, 188.6, 0.0); (449441.5,
3758791.6, 188.5, 188.5, 0.0);
(449445.4, 3758791.6, 188.4, 188.4, 0.0); (449368.0,
3758805.6, 192.8, 192.8, 0.0);
(449371.9, 3758805.6, 192.5, 192.5, 0.0); (449375.8,
3758805.6, 192.2, 192.2, 0.0);
(449379.6, 3758805.6, 192.0, 192.0, 0.0); (449383.5,
3758805.6, 191.7, 191.7, 0.0);
(449387.4, 3758805.6, 191.5, 191.5, 0.0); (449391.2,
3758805.6, 191.2, 191.2, 0.0);
(449395.1, 3758805.6, 190.9, 190.9, 0.0); (449399.0,
3758805.6, 190.7, 190.7, 0.0);
(449402.8, 3758805.6, 190.4, 190.4, 0.0); (449406.7,
3758805.6, 190.2, 190.2, 0.0);
(449410.6, 3758805.6, 189.9, 189.9, 0.0); (449414.5,
3758805.6, 189.8, 189.8, 0.0);
(449418.3, 3758805.6, 189.7, 189.7, 0.0); (449422.2,
3758805.6, 189.6, 189.6, 0.0);
(449426.1, 3758805.6, 189.4, 189.4, 0.0); (449429.9,
3758805.6, 189.3, 189.3, 0.0);
(449433.8, 3758805.6, 189.2, 189.2, 0.0); (449437.7,
3758805.6, 189.0, 189.0, 0.0);
(449441.5, 3758805.6, 188.9, 188.9, 0.0); (449445.4,

3758805.6, 188.8, 188.8, 0.0);
 (449368.0, 3758819.7, 192.8, 192.8, 0.0); (449371.9,
 3758819.7, 192.5, 192.5, 0.0);
 (449375.8, 3758819.7, 192.2, 192.2, 0.0); (449379.6,
 3758819.7, 192.0, 192.0, 0.0);
 (449383.5, 3758819.7, 191.7, 191.7, 0.0); (449387.4,
 3758819.7, 191.5, 191.5, 0.0);

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449391.2, 3758819.7, 191.2, 191.2, 0.0); (449395.1,
 3758819.7, 191.0, 191.0, 0.0);
 (449399.0, 3758819.7, 190.7, 190.7, 0.0); (449402.8,
 3758819.7, 190.4, 190.4, 0.0);
 (449406.7, 3758819.7, 190.2, 190.2, 0.0); (449410.6,
 3758819.7, 190.0, 190.0, 0.0);
 (449414.5, 3758819.7, 189.8, 189.8, 0.0); (449418.3,
 3758819.7, 189.7, 189.7, 0.0);
 (449422.2, 3758819.7, 189.6, 189.6, 0.0); (449426.1,
 3758819.7, 189.5, 189.5, 0.0);
 (449429.9, 3758819.7, 189.3, 189.3, 0.0); (449433.8,
 3758819.7, 189.2, 189.2, 0.0);
 (449437.7, 3758819.7, 189.1, 189.1, 0.0); (449441.5,
 3758819.7, 188.9, 188.9, 0.0);
 (449445.4, 3758819.7, 188.8, 188.8, 0.0); (449368.0,
 3758833.7, 192.8, 192.8, 0.0);
 (449371.9, 3758833.7, 192.5, 192.5, 0.0); (449375.8,
 3758833.7, 192.2, 192.2, 0.0);
 (449379.6, 3758833.7, 192.0, 192.0, 0.0); (449383.5,
 3758833.7, 191.7, 191.7, 0.0);
 (449387.4, 3758833.7, 191.5, 191.5, 0.0); (449391.2,
 3758833.7, 191.2, 191.2, 0.0);
 (449395.1, 3758833.7, 191.0, 191.0, 0.0); (449399.0,
 3758833.7, 190.7, 190.7, 0.0);
 (449402.8, 3758833.7, 190.4, 190.4, 0.0); (449406.7,
 3758833.7, 190.2, 190.2, 0.0);
 (449410.6, 3758833.7, 190.0, 190.0, 0.0); (449414.5,
 3758833.7, 189.8, 189.8, 0.0);
 (449418.3, 3758833.7, 189.7, 189.7, 0.0); (449422.2,
 3758833.7, 189.6, 189.6, 0.0);
 (449426.1, 3758833.7, 189.5, 189.5, 0.0); (449429.9,

3758833.7, 189.3, 189.3, 0.0);
(449433.8, 3758833.7, 189.2, 189.2, 0.0); (449437.7,
3758833.7, 189.1, 189.1, 0.0);
(449441.5, 3758833.7, 188.9, 188.9, 0.0); (449445.4,
3758833.7, 188.8, 188.8, 0.0);
(449368.0, 3758847.8, 193.4, 193.4, 0.0); (449371.9,
3758847.8, 193.2, 193.2, 0.0);
(449375.8, 3758847.8, 193.0, 193.0, 0.0); (449379.6,
3758847.8, 192.8, 192.8, 0.0);
(449383.5, 3758847.8, 192.5, 192.5, 0.0); (449387.4,
3758847.8, 192.2, 192.2, 0.0);
(449391.2, 3758847.8, 192.0, 192.0, 0.0); (449395.1,
3758847.8, 191.7, 191.7, 0.0);
(449399.0, 3758847.8, 191.5, 191.5, 0.0); (449402.8,
3758847.8, 191.2, 191.2, 0.0);
(449406.7, 3758847.8, 191.0, 191.0, 0.0); (449410.6,
3758847.8, 190.7, 190.7, 0.0);
(449414.5, 3758847.8, 190.5, 190.5, 0.0); (449418.3,
3758847.8, 190.4, 190.4, 0.0);
(449422.2, 3758847.8, 190.2, 190.2, 0.0); (449426.1,
3758847.8, 190.0, 190.0, 0.0);
(449429.9, 3758847.8, 189.8, 189.8, 0.0); (449433.8,
3758847.8, 189.6, 189.6, 0.0);
(449437.7, 3758847.8, 189.5, 189.5, 0.0); (449441.5,
3758847.8, 189.3, 189.3, 0.0);
(449445.4, 3758847.8, 189.2, 189.2, 0.0); (449368.0,
3758861.8, 194.1, 194.1, 0.0);
(449371.9, 3758861.8, 194.0, 194.0, 0.0); (449375.8,
3758861.8, 193.8, 193.8, 0.0);
(449379.6, 3758861.8, 193.7, 193.7, 0.0); (449383.5,
3758861.8, 193.4, 193.4, 0.0);
(449387.4, 3758861.8, 193.2, 193.2, 0.0); (449391.2,
3758861.8, 192.9, 192.9, 0.0);
(449395.1, 3758861.8, 192.7, 192.7, 0.0); (449399.0,
3758861.8, 192.4, 192.4, 0.0);
(449402.8, 3758861.8, 192.1, 192.1, 0.0); (449406.7,
3758861.8, 191.9, 191.9, 0.0);
(449410.6, 3758861.8, 191.6, 191.6, 0.0); (449414.5,
3758861.8, 191.4, 191.4, 0.0);
(449418.3, 3758861.8, 191.2, 191.2, 0.0); (449422.2,
3758861.8, 190.9, 190.9, 0.0);
(449426.1, 3758861.8, 190.7, 190.7, 0.0); (449429.9,
3758861.8, 190.4, 190.4, 0.0);
(449433.8, 3758861.8, 190.2, 190.2, 0.0); (449437.7,
3758861.8, 190.0, 190.0, 0.0);
(449441.5, 3758861.8, 189.8, 189.8, 0.0); (449445.4,
3758861.8, 189.7, 189.7, 0.0);
(449368.0, 3758875.8, 194.7, 194.7, 0.0); (449371.9,
3758875.8, 194.6, 194.6, 0.0);
(449375.8, 3758875.8, 194.4, 194.4, 0.0); (449379.6,

3758875.8, 194.3, 194.3, 0.0);
(449383.5, 3758875.8, 194.1, 194.1, 0.0); (449387.4,
3758875.8, 193.8, 193.8, 0.0);
(449391.2, 3758875.8, 193.5, 193.5, 0.0); (449395.1,
3758875.8, 193.3, 193.3, 0.0);
(449399.0, 3758875.8, 193.0, 193.0, 0.0); (449402.8,
3758875.8, 192.8, 192.8, 0.0);
(449406.7, 3758875.8, 192.5, 192.5, 0.0); (449410.6,
3758875.8, 192.2, 192.2, 0.0);

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(449414.5, 3758875.8, 192.0, 192.0, 0.0); (449418.3,
3758875.8, 191.7, 191.7, 0.0);
(449422.2, 3758875.8, 191.5, 191.5, 0.0); (449426.1,
3758875.8, 191.2, 191.2, 0.0);
(449429.9, 3758875.8, 191.0, 191.0, 0.0); (449433.8,
3758875.8, 190.7, 190.7, 0.0);
(449437.7, 3758875.8, 190.4, 190.4, 0.0); (449441.5,
3758875.8, 190.2, 190.2, 0.0);
(449445.4, 3758875.8, 190.1, 190.1, 0.0); (449368.0,
3758889.9, 195.2, 195.2, 0.0);
(449371.9, 3758889.9, 195.0, 195.0, 0.0); (449375.8,
3758889.9, 194.9, 194.9, 0.0);
(449379.6, 3758889.9, 194.8, 194.8, 0.0); (449383.5,
3758889.9, 194.5, 194.5, 0.0);
(449387.4, 3758889.9, 194.3, 194.3, 0.0); (449391.2,
3758889.9, 194.0, 194.0, 0.0);
(449395.1, 3758889.9, 193.7, 193.7, 0.0); (449399.0,
3758889.9, 193.5, 193.5, 0.0);
(449402.8, 3758889.9, 193.2, 193.2, 0.0); (449406.7,
3758889.9, 193.0, 193.0, 0.0);
(449410.6, 3758889.9, 192.7, 192.7, 0.0); (449414.5,
3758889.9, 192.5, 192.5, 0.0);
(449418.3, 3758889.9, 192.2, 192.2, 0.0); (449422.2,
3758889.9, 191.9, 191.9, 0.0);
(449426.1, 3758889.9, 191.7, 191.7, 0.0); (449429.9,
3758889.9, 191.4, 191.4, 0.0);
(449433.8, 3758889.9, 191.2, 191.2, 0.0); (449437.7,
3758889.9, 190.9, 190.9, 0.0);
(449441.5, 3758889.9, 190.7, 190.7, 0.0); (449445.4,

3758889.9, 190.6, 190.6, 0.0);
(449368.0, 3758903.9, 195.8, 195.8, 0.0); (449371.9,
3758903.9, 195.7, 195.7, 0.0);
(449375.8, 3758903.9, 195.6, 195.6, 0.0); (449379.6,
3758903.9, 195.5, 195.5, 0.0);
(449383.5, 3758903.9, 195.2, 195.2, 0.0); (449387.4,
3758903.9, 195.0, 195.0, 0.0);
(449391.2, 3758903.9, 194.7, 194.7, 0.0); (449395.1,
3758903.9, 194.5, 194.5, 0.0);
(449399.0, 3758903.9, 194.2, 194.2, 0.0); (449402.8,
3758903.9, 194.0, 194.0, 0.0);
(449406.7, 3758903.9, 193.7, 193.7, 0.0); (449410.6,
3758903.9, 193.4, 193.4, 0.0);
(449414.5, 3758903.9, 193.1, 193.1, 0.0); (449418.3,
3758903.9, 192.8, 192.8, 0.0);
(449422.2, 3758903.9, 192.6, 192.6, 0.0); (449426.1,
3758903.9, 192.3, 192.3, 0.0);
(449429.9, 3758903.9, 192.0, 192.0, 0.0); (449433.8,
3758903.9, 191.7, 195.0, 0.0);
(449437.7, 3758903.9, 191.4, 195.0, 0.0); (449441.5,
3758903.9, 191.2, 191.2, 0.0);
(449445.4, 3758903.9, 191.1, 191.1, 0.0); (449368.0,
3758918.0, 196.6, 196.6, 0.0);
(449371.9, 3758918.0, 196.5, 196.5, 0.0); (449375.8,
3758918.0, 196.5, 196.5, 0.0);
(449379.6, 3758918.0, 196.4, 196.4, 0.0); (449383.5,
3758918.0, 196.2, 196.2, 0.0);
(449387.4, 3758918.0, 195.9, 195.9, 0.0); (449391.2,
3758918.0, 195.7, 195.7, 0.0);
(449395.1, 3758918.0, 195.4, 195.4, 0.0); (449399.0,
3758918.0, 195.1, 195.1, 0.0);
(449402.8, 3758918.0, 194.9, 194.9, 0.0); (449406.7,
3758918.0, 194.6, 194.6, 0.0);
(449410.6, 3758918.0, 194.3, 194.3, 0.0); (449414.5,
3758918.0, 194.0, 195.0, 0.0);
(449418.3, 3758918.0, 193.6, 195.0, 0.0); (449422.2,
3758918.0, 193.3, 195.0, 0.0);
(449426.1, 3758918.0, 192.9, 195.0, 0.0); (449429.9,
3758918.0, 192.6, 195.0, 0.0);
(449433.8, 3758918.0, 192.2, 195.0, 0.0); (449437.7,
3758918.0, 191.9, 195.0, 0.0);
(449441.5, 3758918.0, 191.7, 195.0, 0.0); (449445.4,
3758918.0, 191.5, 191.5, 0.0);
(449368.0, 3758932.0, 197.2, 197.2, 0.0); (449371.9,
3758932.0, 197.2, 197.2, 0.0);
(449375.8, 3758932.0, 197.2, 197.2, 0.0); (449379.6,
3758932.0, 197.2, 197.2, 0.0);
(449383.5, 3758932.0, 196.9, 196.9, 0.0); (449387.4,
3758932.0, 196.7, 196.7, 0.0);
(449391.2, 3758932.0, 196.4, 196.4, 0.0); (449395.1,

3758932.0, 196.2, 196.2, 0.0);
(449399.0, 3758932.0, 195.9, 195.9, 0.0); (449402.8,
3758932.0, 195.6, 195.6, 0.0);
(449406.7, 3758932.0, 195.4, 195.4, 0.0); (449410.6,
3758932.0, 195.1, 195.1, 0.0);
(449414.5, 3758932.0, 194.7, 194.7, 0.0); (449418.3,
3758932.0, 194.3, 194.3, 0.0);
(449422.2, 3758932.0, 193.9, 193.9, 0.0); (449426.1,
3758932.0, 193.5, 193.5, 0.0);
(449429.9, 3758932.0, 193.1, 193.1, 0.0); (449433.8,
3758932.0, 192.8, 192.8, 0.0);

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 *** ***
*** 11:46:36

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

(449437.7, 3758932.0, 192.4, 192.4, 0.0); (449441.5,
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(449445.4, 3758932.0, 192.0, 192.0, 0.0); (449368.0,
3758946.0, 197.7, 197.7, 0.0);
(449371.9, 3758946.0, 197.7, 197.7, 0.0); (449375.8,
3758946.0, 197.7, 197.7, 0.0);
(449379.6, 3758946.0, 197.7, 197.7, 0.0); (449383.5,
3758946.0, 197.4, 197.4, 0.0);
(449387.4, 3758946.0, 197.1, 197.1, 0.0); (449391.2,
3758946.0, 196.9, 196.9, 0.0);
(449395.1, 3758946.0, 196.6, 196.6, 0.0); (449399.0,
3758946.0, 196.4, 196.4, 0.0);
(449402.8, 3758946.0, 196.1, 196.1, 0.0); (449406.7,
3758946.0, 195.8, 195.8, 0.0);
(449410.6, 3758946.0, 195.5, 195.5, 0.0); (449414.5,
3758946.0, 195.2, 195.2, 0.0);
(449418.3, 3758946.0, 194.8, 194.8, 0.0); (449422.2,
3758946.0, 194.4, 194.4, 0.0);
(449426.1, 3758946.0, 194.0, 196.0, 0.0); (449429.9,
3758946.0, 193.6, 196.0, 0.0);
(449433.8, 3758946.0, 193.2, 196.0, 0.0); (449437.7,
3758946.0, 192.8, 196.0, 0.0);
(449441.5, 3758946.0, 192.5, 196.0, 0.0); (449445.4,
3758946.0, 192.3, 192.3, 0.0);
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3758960.1, 198.0, 198.0, 0.0);
(449375.8, 3758960.1, 198.0, 198.0, 0.0); (449379.6,

3758960.1, 198.0, 198.0, 0.0);
(449383.5, 3758960.1, 197.8, 197.8, 0.0); (449387.4,
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(449391.2, 3758960.1, 197.3, 197.3, 0.0); (449395.1,
3758960.1, 197.0, 197.0, 0.0);
(449399.0, 3758960.1, 196.8, 196.8, 0.0); (449402.8,
3758960.1, 196.5, 196.5, 0.0);
(449406.7, 3758960.1, 196.3, 196.3, 0.0); (449410.6,
3758960.1, 196.0, 196.0, 0.0);
(449414.5, 3758960.1, 195.6, 195.6, 0.0); (449418.3,
3758960.1, 195.2, 195.2, 0.0);
(449422.2, 3758960.1, 194.9, 194.9, 0.0); (449426.1,
3758960.1, 194.5, 194.5, 0.0);
(449429.9, 3758960.1, 194.1, 194.1, 0.0); (449433.8,
3758960.1, 193.7, 193.7, 0.0);
(449437.7, 3758960.1, 193.3, 193.3, 0.0); (449441.5,
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(449445.4, 3758960.1, 192.7, 192.7, 0.0); (449368.0,
3758974.1, 198.0, 198.0, 0.0);
(449371.9, 3758974.1, 198.0, 198.0, 0.0); (449375.8,
3758974.1, 198.0, 198.0, 0.0);
(449379.6, 3758974.1, 198.0, 198.0, 0.0); (449383.5,
3758974.1, 197.8, 197.8, 0.0);
(449387.4, 3758974.1, 197.6, 197.6, 0.0); (449391.2,
3758974.1, 197.5, 197.5, 0.0);
(449395.1, 3758974.1, 197.3, 197.3, 0.0); (449399.0,
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(449402.8, 3758974.1, 196.9, 196.9, 0.0); (449406.7,
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(449410.6, 3758974.1, 196.5, 196.5, 0.0); (449414.5,
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(449418.3, 3758974.1, 195.7, 195.7, 0.0); (449422.2,
3758974.1, 195.3, 195.3, 0.0);
(449426.1, 3758974.1, 194.9, 197.0, 0.0); (449429.9,
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(449433.8, 3758974.1, 194.2, 197.0, 0.0); (449437.7,
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(449406.7, 3758988.2, 197.1, 197.1, 0.0); (449410.6,


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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC *** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 11:46:36

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

```

( 449379.6, 3759002.2, 198.5, 198.5, 0.0); ( 449383.5,
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3759044.3, 194.8, 194.8, 0.0);
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▲ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC *** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 11:46:36

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.

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

10.80,
1.54, 3.09, 5.14, 8.23,

▲ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC *** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 11:46:36

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: ..\KRAL_V9_ADJU\KRAL_V9.SFC
 Met Version: 16216
 Profile file: ..\KRAL_V9_ADJU\KRAL_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171
 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	HT							
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	
1.00	2.93	55.	10.1	288.1	2.0									
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	
1.00	3.05	55.	10.1	287.0	2.0									
12	01	01	1	03	-21.5	0.221	-9.000	-9.000	-999.	250.	53.5	0.15	2.40	
1.00	2.45	74.	10.1	284.2	2.0									
12	01	01	1	04	-22.0	0.227	-9.000	-9.000	-999.	260.	56.8	0.15	2.40	
1.00	2.52	77.	10.1	285.9	2.0									
12	01	01	1	05	-20.0	0.206	-9.000	-9.000	-999.	225.	46.8	0.15	2.40	
1.00	2.30	80.	10.1	285.4	2.0									
12	01	01	1	06	-14.4	0.171	-9.000	-9.000	-999.	170.	32.1	0.15	2.40	
1.00	1.93	79.	10.1	287.0	2.0									
12	01	01	1	07	-14.9	0.174	-9.000	-9.000	-999.	174.	33.2	0.15	2.40	
1.00	1.96	77.	10.1	284.2	2.0									
12	01	01	1	08	-11.9	0.169	-9.000	-9.000	-999.	167.	36.1	0.15	2.40	
0.53	1.89	77.	10.1	288.1	2.0									
12	01	01	1	09	40.4	0.234	0.359	0.006	40.	272.	-28.1	0.15	2.40	
0.31	2.10	81.	10.1	289.2	2.0									
12	01	01	1	10	112.6	0.246	0.742	0.005	129.	293.	-11.8	0.15	2.40	
0.24	1.99	101.	10.1	296.4	2.0									
12	01	01	1	11	161.0	0.402	1.188	0.005	369.	611.	-35.6	0.15	2.40	
0.21	3.68	78.	10.1	298.8	2.0									
12	01	01	1	12	184.7	0.337	1.516	0.005	668.	473.	-18.4	0.15	2.40	
0.20	2.89	68.	10.1	300.4	2.0									
12	01	01	1	13	183.9	0.310	1.809	0.005	1139.	414.	-14.2	0.15	2.40	

0.20	2.57	64.	10.1	302.5	2.0								
12	01	01	1	14	156.6	0.374	1.852	0.005	1434.	549.	-29.5	0.15	2.40
0.22	3.37	63.	10.1	303.1	2.0								
12	01	01	1	15	104.3	0.382	1.658	0.005	1546.	567.	-47.2	0.15	2.40
0.25	3.59	62.	10.1	302.5	2.0								
12	01	01	1	16	31.8	0.374	1.123	0.005	1573.	550.	-145.8	0.15	2.40
0.34	3.76	69.	10.1	300.9	2.0								
12	01	01	1	17	-23.3	0.276	-9.000	-9.000	-999.	354.	84.0	0.15	2.40
0.62	3.03	59.	10.1	297.5	2.0								
12	01	01	1	18	-21.5	0.229	-9.000	-9.000	-999.	264.	57.8	0.15	2.40
1.00	2.54	54.	10.1	295.4	2.0								
12	01	01	1	19	-19.3	0.204	-9.000	-9.000	-999.	221.	45.6	0.15	2.40
1.00	2.27	79.	10.1	292.0	2.0								
12	01	01	1	20	-20.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.15	2.40
1.00	2.42	79.	10.1	292.5	2.0								
12	01	01	1	21	-19.7	0.206	-9.000	-9.000	-999.	225.	46.9	0.15	2.40
1.00	2.30	95.	10.1	290.9	2.0								
12	01	01	1	22	-17.6	0.190	-9.000	-9.000	-999.	199.	39.8	0.15	2.40
1.00	2.13	78.	10.1	290.4	2.0								
12	01	01	1	23	-20.3	0.211	-9.000	-9.000	-999.	233.	49.0	0.15	2.40
1.00	2.35	52.	10.1	289.2	2.0								
12	01	01	1	24	-16.4	0.183	-9.000	-9.000	-999.	189.	37.0	0.15	2.40
1.00	2.06	75.	10.1	288.8	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	55.	2.93	288.2	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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*** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC                  ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
***                                     ***      11:46:36

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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*** 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
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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M³

**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449368.02	3758763.53	4.80220	449371.89
3758763.53	4.59459		
449375.76	3758763.53	4.39916	449379.63
3758763.53	4.21727		
449383.50	3758763.53	4.05619	449387.37
3758763.53	3.90684		
449391.24	3758763.53	3.76682	449395.11
3758763.53	3.63587		
449398.98	3758763.53	3.51309	449402.85
3758763.53	3.39778		
449406.72	3758763.53	3.28975	449410.59
3758763.53	3.18932		
449414.46	3758763.53	3.09856	449418.33
3758763.53	3.01255		
449422.20	3758763.53	2.93096	449426.07
3758763.53	2.85343		
449429.94	3758763.53	2.77966	449433.81
3758763.53	2.70939		
449437.68	3758763.53	2.64236	449441.55
3758763.53	2.58006		
449445.42	3758763.53	2.52111	449368.02
3758777.57	4.80431		
449371.89	3758777.57	4.58733	449375.76
3758777.57	4.38346		
449379.63	3758777.57	4.19473	449383.50
3758777.57	4.03445		
449387.37	3758777.57	3.88529	449391.24
3758777.57	3.74679		
449395.11	3758777.57	3.61670	449398.98
3758777.57	3.49482		
449402.85	3758777.57	3.38037	449406.72
3758777.57	3.27271		
449410.59	3758777.57	3.17320	449414.46
3758777.57	3.08391		
449418.33	3758777.57	2.99882	449422.20
3758777.57	2.91807		
449426.07	3758777.57	2.84132	449429.94
3758777.57	2.76828		
449433.81	3758777.57	2.69868	449437.68
3758777.57	2.63228		
449441.55	3758777.57	2.57131	449445.42

3758777.57	2.51462			
	449368.02	3758791.61	4.81468	449371.89
3758791.61	4.60458			
	449375.76	3758791.61	4.40913	449379.63
3758791.61	4.22735			
	449383.50	3758791.61	4.06598	449387.37
3758791.61	3.91577			
	449391.24	3758791.61	3.77563	449395.11
3758791.61	3.64514			
	449398.98	3758791.61	3.52231	449402.85
3758791.61	3.40696			
	449406.72	3758791.61	3.29844	449410.59
3758791.61	3.19808			
	449414.46	3758791.61	3.10745	449418.33
3758791.61	3.02158			
	449422.20	3758791.61	2.94052	449426.07
3758791.61	2.86307			
	449429.94	3758791.61	2.78937	449433.81
3758791.61	2.71916			
	449437.68	3758791.61	2.65218	449441.55
3758791.61	2.58925			
	449445.42	3758791.61	2.53039	449368.02
3758805.65	4.82553			
	449371.89	3758805.65	4.62130	449375.76
3758805.65	4.43280			
	449379.63	3758805.65	4.25817	449383.50
3758805.65	4.09588			
	449387.37	3758805.65	3.94479	449391.24
3758805.65	3.80374			
	449395.11	3758805.65	3.67182	449398.98
3758805.65	3.54867			
	449402.85	3758805.65	3.43251	449406.72
3758805.65	3.32318			
	449410.59	3758805.65	3.22203	449414.46
3758805.65	3.13057			
	449418.33	3758805.65	3.04391	449422.20
3758805.65	2.96170			
	449426.07	3758805.65	2.88359	449429.94
3758805.65	2.80967			

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^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC                 ***   11/11/21
*** AERMET - VERSION 16216 ***   ***
***                               ***   11:46:36

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 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
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*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449433.81	3758805.65	2.73885	449437.68
3758805.65	2.67131		
449441.55	3758805.65	2.60682	449445.42
3758805.65	2.54517		
449368.02	3758819.69	4.82773	449371.89
3758819.69	4.62335		
449375.76	3758819.69	4.43509	449379.63
3758819.69	4.26016		
449383.50	3758819.69	4.09771	449387.37
3758819.69	3.94651		
449391.24	3758819.69	3.80541	449395.11
3758819.69	3.67402		
449398.98	3758819.69	3.55035	449402.85
3758819.69	3.43421		
449406.72	3758819.69	3.32493	449410.59
3758819.69	3.22385		
449414.46	3758819.69	3.13251	449418.33
3758819.69	3.04597		
449422.20	3758819.69	2.96386	449426.07
3758819.69	2.88625		
449429.94	3758819.69	2.81201	449433.81
3758819.69	2.74127		
449437.68	3758819.69	2.67380	449441.55
3758819.69	2.60938		
449445.42	3758819.69	2.54778	449368.02
3758833.73	4.82819		
449371.89	3758833.73	4.62339	449375.76
3758833.73	4.43493		
449379.63	3758833.73	4.25987	449383.50
3758833.73	4.09737		
449387.37	3758833.73	3.94616	449391.24
3758833.73	3.80510		

449395.11	3758833.73	3.67378	449398.98
3758833.73	3.55019		
449402.85	3758833.73	3.43414	449406.72
3758833.73	3.32497		
449410.59	3758833.73	3.22403	449414.46
3758833.73	3.13286		
449418.33	3758833.73	3.04649	449422.20
3758833.73	2.96453		
449426.07	3758833.73	2.88706	449429.94
3758833.73	2.81295		
449433.81	3758833.73	2.74233	449437.68
3758833.73	2.67497		
449441.55	3758833.73	2.61064	449445.42
3758833.73	2.54914		
449368.02	3758847.77	4.86790	449371.89
3758847.77	4.66553		
449375.76	3758847.77	4.47900	449379.63
3758847.77	4.30572		
449383.50	3758847.77	4.14218	449387.37
3758847.77	3.99027		
449391.24	3758847.77	3.84793	449395.11
3758847.77	3.71472		
449398.98	3758847.77	3.58983	449402.85
3758847.77	3.47250		
449406.72	3758847.77	3.36255	449410.59
3758847.77	3.25935		
449414.46	3758847.77	3.16456	449418.33
3758847.77	3.07528		
449422.20	3758847.77	2.99021	449426.07
3758847.77	2.90945		
449429.94	3758847.77	2.83269	449433.81
3758847.77	2.75960		
449437.68	3758847.77	2.68994	449441.55
3758847.77	2.62451		
449445.42	3758847.77	2.56263	449368.02
3758861.81	4.89493		
449371.89	3758861.81	4.69885	449375.76
3758861.81	4.51522		
449379.63	3758861.81	4.35029	449383.50
3758861.81	4.18851		
449387.37	3758861.81	4.03601	449391.24
3758861.81	3.89351		
449395.11	3758861.81	3.76001	449398.98
3758861.81	3.63436		
449402.85	3758861.81	3.51602	449406.72
3758861.81	3.40460		
449410.59	3758861.81	3.29981	449414.46
3758861.81	3.20123		

▲ *** AERMOD - VERSION 19191 ***
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*** 11/11/21

*** AERMET - VERSION 16216 *** ***
 *** 11:46:36

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449418.33	3758861.81	3.10789	449422.20
3758861.81	3.01944		
449426.07	3758861.81	2.93586	449429.94
3758861.81	2.85607		
449433.81	3758861.81	2.78013	449437.68
3758861.81	2.70779		
449441.55	3758861.81	2.64082	449445.42
3758861.81	2.57847		
449368.02	3758875.85	4.90328	449371.89
3758875.85	4.70799		
449375.76	3758875.85	4.52677	449379.63
3758875.85	4.35875		
449383.50	3758875.85	4.20611	449387.37
3758875.85	4.05566		
449391.24	3758875.85	3.91895	449395.11
3758875.85	3.78541		
449398.98	3758875.85	3.66012	449402.85
3758875.85	3.54164		
449406.72	3758875.85	3.42990	449410.59
3758875.85	3.32431		
449414.46	3758875.85	3.22445	449418.33
3758875.85	3.13024		
449422.20	3758875.85	3.04053	449426.07

3758875.85	2.95535		
449429.94	3758875.85	2.87437	449433.81
3758875.85	2.79729		
449437.68	3758875.85	2.72419	449441.55
3758875.85	2.65643		
449445.42	3758875.85	2.59363	449368.02
3758889.89	4.90619		
449371.89	3758889.89	4.71095	449375.76
3758889.89	4.53076		
449379.63	3758889.89	4.37013	449383.50
3758889.89	4.21368		
449387.37	3758889.89	4.07034	449391.24
3758889.89	3.93098		
449395.11	3758889.89	3.80256	449398.98
3758889.89	3.67743		
449402.85	3758889.89	3.55926	449406.72
3758889.89	3.44751		
449410.59	3758889.89	3.34172	449414.46
3758889.89	3.24166		
449418.33	3758889.89	3.14678	449422.20
3758889.89	3.05715		
449426.07	3758889.89	2.97164	449429.94
3758889.89	2.89035		
449433.81	3758889.89	2.81292	449437.68
3758889.89	2.73915		
449441.55	3758889.89	2.67132	449445.42
3758889.89	2.60808		
449368.02	3758903.93	4.90405	449371.89
3758903.93	4.71017		
449375.76	3758903.93	4.53093	449379.63
3758903.93	4.36450		
449383.50	3758903.93	4.21714	449387.37
3758903.93	4.07139		
449391.24	3758903.93	3.94108	449395.11
3758903.93	3.81206		
449398.98	3758903.93	3.69413	449402.85
3758903.93	3.57770		
449406.72	3758903.93	3.47086	449410.59
3758903.93	3.36531		
449414.46	3758903.93	3.26431	449418.33
3758903.93	3.16846		
449422.20	3758903.93	3.07729	449426.07
3758903.93	2.99058		
449429.94	3758903.93	2.90802	449433.81
3758903.93	2.82933		
449437.68	3758903.93	2.75430	449441.55
3758903.93	2.68514		
449445.42	3758903.93	2.62181	449368.02
3758917.97	4.87708		
449371.89	3758917.97	4.68432	449375.76

3758917.97	4.50583			
	449379.63	3758917.97	4.34085	449383.50
3758917.97	4.20226			
	449387.37	3758917.97	4.06108	449391.24
3758917.97	3.93583			
	449395.11	3758917.97	3.80964	449398.98
3758917.97	3.69710			

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 *** 11:46:36

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449402.85	3758917.97	3.58380	449406.72
3758917.97	3.48222		
449410.59	3758917.97	3.37903	449414.46
3758917.97	3.28385		
449418.33	3758917.97	3.19146	449422.20
3758917.97	3.09914		
449426.07	3758917.97	3.01089	449429.94
3758917.97	2.92620		
449433.81	3758917.97	2.84559	449437.68
3758917.97	2.76856		
449441.55	3758917.97	2.69849	449445.42
3758917.97	2.63447		
449368.02	3758932.01	4.85351	449371.89
3758932.01	4.66065		

449375.76	3758932.01	4.48242	449379.63
3758932.01	4.31757		
449383.50	3758932.01	4.17247	449387.37
3758932.01	4.04804		
449391.24	3758932.01	3.91826	449395.11
3758932.01	3.80471		
449398.98	3758932.01	3.68768	449402.85
3758932.01	3.58390		
449406.72	3758932.01	3.47830	449410.59
3758932.01	3.38421		
449414.46	3758932.01	3.29221	449418.33
3758932.01	3.19781		
449422.20	3758932.01	3.11074	449426.07
3758932.01	3.02638		
449429.94	3758932.01	2.94129	449433.81
3758932.01	2.85973		
449437.68	3758932.01	2.78187	449441.55
3758932.01	2.71072		
449445.42	3758932.01	2.64554	449368.02
3758946.05	4.83206		
449371.89	3758946.05	4.63983	449375.76
3758946.05	4.46221		
449379.63	3758946.05	4.29799	449383.50
3758946.05	4.17036		
449387.37	3758946.05	4.03501	449391.24
3758946.05	3.91866		
449395.11	3758946.05	3.79726	449398.98
3758946.05	3.69060		
449402.85	3758946.05	3.58055	449406.72
3758946.05	3.48308		
449410.59	3758946.05	3.38293	449414.46
3758946.05	3.29368		
449418.33	3758946.05	3.20607	449422.20
3758946.05	3.11613		
449426.07	3758946.05	3.03331	449429.94
3758946.05	2.95258		
449433.81	3758946.05	2.87133	449437.68
3758946.05	2.79336		
449441.55	3758946.05	2.72130	449445.42
3758946.05	2.65451		
449368.02	3758960.09	4.81206	449371.89
3758960.09	4.62035		
449375.76	3758960.09	4.44319	449379.63
3758960.09	4.27944		
449383.50	3758960.09	4.15579	449387.37
3758960.09	4.02139		
449391.24	3758960.09	3.90793	449395.11
3758960.09	3.78732		
449398.98	3758960.09	3.68341	449402.85
3758960.09	3.57456		

449406.72	3758960.09	3.47903	449410.59
3758960.09	3.38013		
449414.46	3758960.09	3.29252	449418.33
3758960.09	3.20726		
449422.20	3758960.09	3.11907	449426.07
3758960.09	3.03802		
449429.94	3758960.09	2.95883	449433.81
3758960.09	2.88182		
449437.68	3758960.09	2.80415	449441.55
3758960.09	2.73134		
449445.42	3758960.09	2.66257	449368.02
3758974.13	4.83210		
449371.89	3758974.13	4.63930	449375.76
3758974.13	4.46112		
449379.63	3758974.13	4.29641	449383.50
3758974.13	4.16733		

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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 *** 11:46:36

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***

 INCLUDING SOURCE(S): 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
449387.37	3758974.13	4.02972	449391.24
3758974.13	3.90037		
449395.11	3758974.13	3.79102	449398.98
3758974.13	3.67596		
449402.85	3758974.13	3.57654	449406.72

3758974.13	3.47286		
449410.59	3758974.13	3.37494	449414.46
3758974.13	3.28932		
449418.33	3758974.13	3.20610	449422.20
3758974.13	3.12475		
449426.07	3758974.13	3.04064	449429.94
3758974.13	2.96310		
449433.81	3758974.13	2.88743	449437.68
3758974.13	2.81387		
449441.55	3758974.13	2.74025	449445.42
3758974.13	2.67025		
449368.02	3758988.17	4.84819	449371.89
3758988.17	4.65427		
449375.76	3758988.17	4.47514	449379.63
3758988.17	4.30915		
449383.50	3758988.17	4.17628	449387.37
3758988.17	4.03665		
449391.24	3758988.17	3.90580	449395.11
3758988.17	3.78248		
449398.98	3758988.17	3.67818	449402.85
3758988.17	3.56858		
449406.72	3758988.17	3.46485	449410.59
3758988.17	3.37640		
449414.46	3758988.17	3.28451	449418.33
3758988.17	3.20279		
449422.20	3758988.17	3.12332	449426.07
3758988.17	3.04053		
449429.94	3758988.17	2.96520	449433.81
3758988.17	2.89096		
449437.68	3758988.17	2.81866	449441.55
3758988.17	2.74515		
449445.42	3758988.17	2.67726	449368.02
3759002.21	4.81935		
449371.89	3759002.21	4.62639	449375.76
3759002.21	4.44815		
449379.63	3759002.21	4.28348	449383.50
3759002.21	4.15831		
449387.37	3759002.21	4.02154	449391.24
3759002.21	3.90754		
449395.11	3759002.21	3.78620	449398.98
3759002.21	3.67161		
449402.85	3759002.21	3.57351	449406.72
3759002.21	3.47043		
449410.59	3759002.21	3.38098	449414.46
3759002.21	3.28778		
449418.33	3759002.21	3.20548	449422.20
3759002.21	3.11972		
449426.07	3759002.21	3.04339	449429.94
3759002.21	2.96862		
449433.81	3759002.21	2.89185	449437.68

3759002.21	2.82169			
449441.55	3759002.21	2.74927		449445.42
3759002.21	2.68226			
449368.02	3759016.25	4.81006		449371.89
3759016.25	4.61807			
449375.76	3759016.25	4.44062		449379.63
3759016.25	4.27661			
449383.50	3759016.25	4.13586		449387.37
3759016.25	4.02113			
449391.24	3759016.25	3.89526		449395.11
3759016.25	3.78927			
449398.98	3759016.25	3.67574		449402.85
3759016.25	3.56805			
449406.72	3759016.25	3.47513		449410.59
3759016.25	3.37686			
449414.46	3759016.25	3.29057		449418.33
3759016.25	3.20102			
449422.20	3759016.25	3.12190		449426.07
3759016.25	3.03988			
449429.94	3759016.25	2.96680		449433.81
3759016.25	2.89107			
449437.68	3759016.25	2.82294		449441.55
3759016.25	2.75569			
449445.42	3759016.25	2.68580		449368.02

3759030.29 4.85692
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 HRA\PM10\PM10.ISC *** 11/11/21
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	CONC	X-COORD (M)
3759030.29	449371.89	3759030.29	4.66157		449375.76
3759030.29	4.48118				
3759030.29	449379.63	3759030.29	4.31450		449383.50
3759030.29	4.18531				
3759030.29	449387.37	3759030.29	4.04803		449391.24
3759030.29	3.93006				
3759030.29	449395.11	3759030.29	3.80697		449398.98
3759030.29	3.69928				
3759030.29	449402.85	3759030.29	3.58796		449406.72
3759030.29	3.48931				
3759030.29	449410.59	3759030.29	3.38853		449414.46
3759030.29	3.29925				
3759030.29	449418.33	3759030.29	3.20843		449422.20
3759030.29	3.12154				
3759030.29	449426.07	3759030.29	3.04396		449429.94
3759030.29	2.96499				
3759030.29	449433.81	3759030.29	2.89347		449437.68
3759030.29	2.82096				
3759030.29	449441.55	3759030.29	2.75352		449445.42
3759030.29	2.68322				
3759044.33	449368.02	3759044.33	4.91002		449371.89
3759044.33	4.71168				
3759044.33	449375.76	3759044.33	4.52866		449379.63
3759044.33	4.35984				
3759044.33	449383.50	3759044.33	4.22072		449387.37
3759044.33	4.07853				
3759044.33	449391.24	3759044.33	3.95294		449395.11
3759044.33	3.82574				
3759044.33	449398.98	3759044.33	3.71244		449402.85
3759044.33	3.59825				
3759044.33	449406.72	3759044.33	3.49637		449410.59
3759044.33	3.39383				
3759044.33	449414.46	3759044.33	3.29701		449418.33
3759044.33	3.21013				
3759044.33	449422.20	3759044.33	3.12306		449426.07
3759044.33	3.04007				
3759044.33	449429.94	3759044.33	2.96534		449433.81
3759044.33	2.88996				
3759044.33	449437.68	3759044.33	2.81812		449441.55
3759044.33	2.75068				
	449445.42	3759044.33	2.68000		

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HRA\PM10\PM10.ISC                  ***      11/11/21
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***                                11:46:36

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449368.02	3758763.53	8.04254b (16120624)	449371.89
3758763.53	7.70065b (16120624)		
449375.76	3758763.53	7.38099b (16120624)	449379.63
3758763.53	7.08413b (16120624)		
449383.50	3758763.53	6.81963b (16120624)	449387.37
3758763.53	6.57411b (16120624)		
449391.24	3758763.53	6.34394b (16120624)	449395.11
3758763.53	6.12850b (16120624)		
449398.98	3758763.53	5.92633b (16120624)	449402.85
3758763.53	5.73628b (16120624)		
449406.72	3758763.53	5.55794b (16120624)	449410.59
3758763.53	5.39166b (16120624)		
449414.46	3758763.53	5.24025b (16120624)	449418.33
3758763.53	5.09669b (16120624)		
449422.20	3758763.53	4.96038b (16120624)	449426.07
3758763.53	4.83075b (16120624)		
449429.94	3758763.53	4.70733b (16120624)	449433.81
3758763.53	4.58965b (16120624)		
449437.68	3758763.53	4.47731b (16120624)	449441.55
3758763.53	4.37240b (16120624)		
449445.42	3758763.53	4.27291b (16120624)	449368.02
3758777.57	8.04837b (16120624)		
449371.89	3758777.57	7.69425b (16120624)	449375.76
3758777.57	7.36311b (16120624)		
449379.63	3758777.57	7.05674b (16120624)	449383.50

3758777.57	6.79334b (16120624)	
449387.37	3758777.57	6.54806b (16120624) 449391.24
3758777.57	6.31996b (16120624)	
449395.11	3758777.57	6.10563b (16120624) 449398.98
3758777.57	5.90462b (16120624)	
449402.85	3758777.57	5.71566b (16120624) 449406.72
3758777.57	5.53771b (16120624)	
449410.59	3758777.57	5.37259b (16120624) 449414.46
3758777.57	5.22318b (16120624)	
449418.33	3758777.57	5.08081b (16120624) 449422.20
3758777.57	4.94559b (16120624)	
449426.07	3758777.57	4.81698b (16120624) 449429.94
3758777.57	4.69449b (16120624)	
449433.81	3758777.57	4.57769b (16120624) 449437.68
3758777.57	4.46617b (16120624)	
449441.55	3758777.57	4.36310b (16120624) 449445.42
3758777.57	4.26678b (16120624)	
449368.02	3758791.61	8.06750b (16120624) 449371.89
3758791.61	7.72332b (16120624)	
449375.76	3758791.61	7.40401b (16120624) 449379.63
3758791.61	7.10736b (16120624)	
449383.50	3758791.61	6.84232b (16120624) 449387.37
3758791.61	6.59544b (16120624)	
449391.24	3758791.61	6.36492b (16120624) 449395.11
3758791.61	6.14995b (16120624)	
449398.98	3758791.61	5.94751b (16120624) 449402.85
3758791.61	5.75721b (16120624)	
449406.72	3758791.61	5.57796b (16120624) 449410.59
3758791.61	5.41158b (16120624)	
449414.46	3758791.61	5.26021b (16120624) 449418.33
3758791.61	5.11667b (16120624)	
449422.20	3758791.61	4.98096b (16120624) 449426.07
3758791.61	4.85130b (16120624)	
449429.94	3758791.61	4.72784b (16120624) 449433.81
3758791.61	4.61011b (16120624)	
449437.68	3758791.61	4.49771b (16120624) 449441.55
3758791.61	4.39178b (16120624)	
449445.42	3758791.61	4.29230b (16120624) 449368.02
3758805.65	8.08707b (16120624)	
449371.89	3758805.65	7.75140b (16120624) 449375.76
3758805.65	7.44181b (16120624)	
449379.63	3758805.65	7.15504b (16120624) 449383.50
3758805.65	6.88848b (16120624)	
449387.37	3758805.65	6.64019b (16120624) 449391.24
3758805.65	6.40827b (16120624)	
449395.11	3758805.65	6.19118b (16120624) 449398.98
3758805.65	5.98824b (16120624)	
449402.85	3758805.65	5.79674b (16120624) 449406.72
3758805.65	5.61634b (16120624)	
449410.59	3758805.65	5.44880b (16120624) 449414.46

3758805.65 5.29620b (16120624)
 449418.33 3758805.65 5.15151b (16120624) 449422.20
 3758805.65 5.01413b (16120624)
 449426.07 3758805.65 4.88350b (16120624) 449429.94
 3758805.65 4.75967b (16120624)

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION

 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
449433.81	3758805.65	4.64105b (16120624)	449437.68
3758805.65	4.52782b (16120624)		
449441.55	3758805.65	4.41961b (16120624)	449445.42
3758805.65	4.31608b (16120624)		
449368.02	3758819.69	8.09335b (16120624)	449371.89
3758819.69	7.75773b (16120624)		
449375.76	3758819.69	7.44854b (16120624)	449379.63
3758819.69	7.16130b (16120624)		
449383.50	3758819.69	6.89446b (16120624)	449387.37
3758819.69	6.64596b (16120624)		
449391.24	3758819.69	6.41391b (16120624)	449395.11
3758819.69	6.19752b (16120624)		
449398.98	3758819.69	5.99376b (16120624)	449402.85
3758819.69	5.80222b (16120624)		
449406.72	3758819.69	5.62181b (16120624)	449410.59
3758819.69	5.45431b (16120624)		

449414.46	3758819.69	5.30181b (16120624)	449418.33
3758819.69	5.15722b (16120624)		
449422.20	3758819.69	5.01992b (16120624)	449426.07
3758819.69	4.88992b (16120624)		
449429.94	3758819.69	4.76558b (16120624)	449433.81
3758819.69	4.64701b (16120624)		
449437.68	3758819.69	4.53382b (16120624)	449441.55
3758819.69	4.42564b (16120624)		
449445.42	3758819.69	4.32214b (16120624)	449368.02
3758833.73	8.09737b (16120624)		
449371.89	3758833.73	7.76119b (16120624)	449375.76
3758833.73	7.45171b (16120624)		
449379.63	3758833.73	7.16427b (16120624)	449383.50
3758833.73	6.89730b (16120624)		
449387.37	3758833.73	6.64873b (16120624)	449391.24
3758833.73	6.41664b (16120624)		
449395.11	3758833.73	6.20025b (16120624)	449398.98
3758833.73	5.99650b (16120624)		
449402.85	3758833.73	5.80499b (16120624)	449406.72
3758833.73	5.62462b (16120624)		
449410.59	3758833.73	5.45720b (16120624)	449414.46
3758833.73	5.30488b (16120624)		
449418.33	3758833.73	5.16043b (16120624)	449422.20
3758833.73	5.02327b (16120624)		
449426.07	3758833.73	4.89341b (16120624)	449429.94
3758833.73	4.76918b (16120624)		
449433.81	3758833.73	4.65071b (16120624)	449437.68
3758833.73	4.53762b (16120624)		
449441.55	3758833.73	4.42953b (16120624)	449445.42
3758833.73	4.32611b (16120624)		
449368.02	3758847.77	8.15862b (16120624)	449371.89
3758847.77	7.82531b (16120624)		
449375.76	3758847.77	7.51792b (16120624)	449379.63
3758847.77	7.23269b (16120624)		
449383.50	3758847.77	6.96393b (16120624)	449387.37
3758847.77	6.71413b (16120624)		
449391.24	3758847.77	6.48007b (16120624)	449395.11
3758847.77	6.26087b (16120624)		
449398.98	3758847.77	6.05521b (16120624)	449402.85
3758847.77	5.86183b (16120624)		
449406.72	3758847.77	5.68034b (16120624)	449410.59
3758847.77	5.50971b (16120624)		
449414.46	3758847.77	5.35220b (16120624)	449418.33
3758847.77	5.20360b (16120624)		
449422.20	3758847.77	5.06198b (16120624)	449426.07
3758847.77	4.92740b (16120624)		
449429.94	3758847.77	4.79936b (16120624)	449433.81
3758847.77	4.67733b (16120624)		
449437.68	3758847.77	4.56092b (16120624)	449441.55
3758847.77	4.45121b (16120624)		

449445.42	3758847.77	4.34721b (16120624)	449368.02
3758861.81	8.20383b (16120624)		
449371.89	3758861.81	7.87843b (16120624)	449375.76
3758861.81	7.57467b (16120624)		
449379.63	3758861.81	7.30189b (16120624)	449383.50
3758861.81	7.03389b (16120624)		
449387.37	3758861.81	6.78262b (16120624)	449391.24
3758861.81	6.54775b (16120624)		
449395.11	3758861.81	6.32788b (16120624)	449398.98
3758861.81	6.12089b (16120624)		
449402.85	3758861.81	5.92595b (16120624)	449406.72
3758861.81	5.74224b (16120624)		
449410.59	3758861.81	5.56929b (16120624)	449414.46
3758861.81	5.40634b (16120624)		

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449418.33	3758861.81	5.25193b (16120624)		449422.20
3758861.81	5.10547b (16120624)			
449426.07	3758861.81	4.96684b (16120624)		449429.94
3758861.81	4.83444b (16120624)			
449433.81	3758861.81	4.70833b (16120624)		449437.68
3758861.81	4.58805b (16120624)			
449441.55	3758861.81	4.47611b (16120624)		449445.42

3758861.81	4.37140b (16120624)		
449368.02	3758875.85	8.21906b (16120624)	449371.89
3758875.85	7.89641b (16120624)		
449375.76	3758875.85	7.59633b (16120624)	449379.63
3758875.85	7.31719b (16120624)		
449383.50	3758875.85	7.06293b (16120624)	449387.37
3758875.85	6.81366b (16120624)		
449391.24	3758875.85	6.58748b (16120624)	449395.11
3758875.85	6.36698b (16120624)		
449398.98	3758875.85	6.16019b (16120624)	449402.85
3758875.85	5.96476b (16120624)		
449406.72	3758875.85	5.78039b (16120624)	449410.59
3758875.85	5.60613b (16120624)		
449414.46	3758875.85	5.44123b (16120624)	449418.33
3758875.85	5.28546b (16120624)		
449422.20	3758875.85	5.13712b (16120624)	449426.07
3758875.85	4.99615b (16120624)		
449429.94	3758875.85	4.86201b (16120624)	449433.81
3758875.85	4.73421b (16120624)		
449437.68	3758875.85	4.61281b (16120624)	449441.55
3758875.85	4.49972b (16120624)		
449445.42	3758875.85	4.39433b (16120624)	449368.02
3758889.89	8.22278b (16120624)		
449371.89	3758889.89	7.90099b (16120624)	449375.76
3758889.89	7.60230b (16120624)		
449379.63	3758889.89	7.33612b (16120624)	449383.50
3758889.89	7.07667b (16120624)		
449387.37	3758889.89	6.83854b (16120624)	449391.24
3758889.89	6.60643b (16120624)		
449395.11	3758889.89	6.39425b (16120624)	449398.98
3758889.89	6.18708b (16120624)		
449402.85	3758889.89	5.99187b (16120624)	449406.72
3758889.89	5.80726b (16120624)		
449410.59	3758889.89	5.63257b (16120624)	449414.46
3758889.89	5.46725b (16120624)		
449418.33	3758889.89	5.31045b (16120624)	449422.20
3758889.89	5.16213b (16120624)		
449426.07	3758889.89	5.02063b (16120624)	449429.94
3758889.89	4.88598b (16120624)		
449433.81	3758889.89	4.75765b (16120624)	449437.68
3758889.89	4.63524b (16120624)		
449441.55	3758889.89	4.52201b (16120624)	449445.42
3758889.89	4.41597b (16120624)		
449368.02	3758903.93	8.21643b (16120624)	449371.89
3758903.93	7.89558b (16120624)		
449375.76	3758903.93	7.59919b (16120624)	449379.63
3758903.93	7.32387b (16120624)		
449383.50	3758903.93	7.08126b (16120624)	449387.37
3758903.93	6.84102b (16120624)		
449391.24	3758903.93	6.62398b (16120624)	449395.11

3758903.93	6.40920b (16120624)	
449398.98	3758903.93	6.21332b (16120624) 449402.85
3758903.93	6.01965b (16120624)	
449406.72	3758903.93	5.84295b (16120624) 449410.59
3758903.93	5.66807b (16120624)	
449414.46	3758903.93	5.50115b (16120624) 449418.33
3758903.93	5.34271b (16120624)	
449422.20	3758903.93	5.19205b (16120624) 449426.07
3758903.93	5.04870b (16120624)	
449429.94	3758903.93	4.91216b (16120624) 449433.81
3758903.93	4.78195b (16120624)	
449437.68	3758903.93	4.65770b (16120624) 449441.55
3758903.93	4.54253b (16120624)	
449445.42	3758903.93	4.43631b (16120624) 449368.02
3758917.97	8.16982b (16120624)	
449371.89	3758917.97	7.85030b (16120624) 449375.76
3758917.97	7.55450b (16120624)	
449379.63	3758917.97	7.28108b (16120624) 449383.50
3758917.97	7.05215b (16120624)	
449387.37	3758917.97	6.81874b (16120624) 449391.24
3758917.97	6.61268b (16120624)	
449395.11	3758917.97	6.40415b (16120624) 449398.98
3758917.97	6.21835b (16120624)	

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
 VALUES 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
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

449402.85	3758917.97	6.03007b (16120624)	449406.72
3758917.97	5.86048b (16120624)		
449410.59	3758917.97	5.68852b (16120624)	449414.46
3758917.97	5.53023b (16120624)		
449418.33	3758917.97	5.37740b (16120624)	449422.20
3758917.97	5.22459b (16120624)		
449426.07	3758917.97	5.07874b (16120624)	449429.94
3758917.97	4.93895b (16120624)		
449433.81	3758917.97	4.80586b (16120624)	449437.68
3758917.97	4.67865b (16120624)		
449441.55	3758917.97	4.56213b (16120624)	449445.42
3758917.97	4.45489b (16120624)		
449368.02	3758932.01	8.13179b (16120624)	449371.89
3758932.01	7.81143b (16120624)		
449375.76	3758932.01	7.51542b (16120624)	449379.63
3758932.01	7.24157b (16120624)		
449383.50	3758932.01	7.00034b (16120624)	449387.37
3758932.01	6.79457b (16120624)		
449391.24	3758932.01	6.57956b (16120624)	449395.11
3758932.01	6.39225b (16120624)		
449398.98	3758932.01	6.19880b (16120624)	449402.85
3758932.01	6.02809b (16120624)		
449406.72	3758932.01	5.85292b (16120624)	449410.59
3758932.01	5.69685b (16120624)		
449414.46	3758932.01	5.54318b (16120624)	449418.33
3758932.01	5.38580b (16120624)		
449422.20	3758932.01	5.24137b (16120624)	449426.07
3758932.01	5.10183b (16120624)		
449429.94	3758932.01	4.96119b (16120624)	449433.81
3758932.01	4.82655b (16120624)		
449437.68	3758932.01	4.69803b (16120624)	449441.55
3758932.01	4.57989b (16120624)		
449445.42	3758932.01	4.47093b (16120624)	449368.02
3758946.05	8.09639b (16120624)		
449371.89	3758946.05	7.77618b (16120624)	449375.76
3758946.05	7.48048b (16120624)		
449379.63	3758946.05	7.20715b (16120624)	449383.50
3758946.05	6.99573b (16120624)		
449387.37	3758946.05	6.77062b (16120624)	449391.24
3758946.05	6.57828b (16120624)		
449395.11	3758946.05	6.37706b (16120624)	449398.98
3758946.05	6.20112b (16120624)		
449402.85	3758946.05	6.01919b (16120624)	449406.72
3758946.05	5.85844b (16120624)		
449410.59	3758946.05	5.69336b (16120624)	449414.46
3758946.05	5.54453b (16120624)		
449418.33	3758946.05	5.39848b (16120624)	449422.20
3758946.05	5.24853b (16120624)		

449426.07	3758946.05	5.11126b (16120624)	449429.94
3758946.05	4.97781b (16120624)		
449433.81	3758946.05	4.84342b (16120624)	449437.68
3758946.05	4.71461b (16120624)		
449441.55	3758946.05	4.59506b (16120624)	449445.42
3758946.05	4.48374b (16120624)		
449368.02	3758960.09	8.06052b (16120624)	449371.89
3758960.09	7.74124b (16120624)		
449375.76	3758960.09	7.44625b (16120624)	449379.63
3758960.09	7.17361b (16120624)		
449383.50	3758960.09	6.96912b (16120624)	449387.37
3758960.09	6.74565b (16120624)		
449391.24	3758960.09	6.55813b (16120624)	449395.11
3758960.09	6.35801b (16120624)		
449398.98	3758960.09	6.18646b (16120624)	449402.85
3758960.09	6.00618b (16120624)		
449406.72	3758960.09	5.84871b (16120624)	449410.59
3758960.09	5.68537b (16120624)		
449414.46	3758960.09	5.54118b (16120624)	449418.33
3758960.09	5.39914b (16120624)		
449422.20	3758960.09	5.25189b (16120624)	449426.07
3758960.09	5.11698b (16120624)		
449429.94	3758960.09	4.98595b (16120624)	449433.81
3758960.09	4.85858b (16120624)		
449437.68	3758960.09	4.73001b (16120624)	449441.55
3758960.09	4.60925b (16120624)		
449445.42	3758960.09	4.49501b (16120624)	449368.02
3758974.13	8.09198b (16120624)		
449371.89	3758974.13	7.77108b (16120624)	449375.76
3758974.13	7.47461b (16120624)		
449379.63	3758974.13	7.20054b (16120624)	449383.50
3758974.13	6.98692b (16120624)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION

 VALUES 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

,

*** DISCRETE CARTESIAN RECEPTOR POINTS

		** CONC OF PM ₁₀ IN MICROGRAMS/M**3		
		**		
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

449387.37	3758974.13	6.75806b	(16120624)	449391.24
3758974.13	6.54329b	(16120624)		
449395.11	3758974.13	6.36255b	(16120624)	449398.98
3758974.13	6.17161b	(16120624)		
449402.85	3758974.13	6.00734b	(16120624)	449406.72
3758974.13	5.83535b	(16120624)		
449410.59	3758974.13	5.67322b	(16120624)	449414.46
3758974.13	5.53303b	(16120624)		
449418.33	3758974.13	5.39532b	(16120624)	449422.20
3758974.13	5.26001b	(16120624)		
449426.07	3758974.13	5.11939b	(16120624)	449429.94
3758974.13	4.99056b	(16120624)		
449433.81	3758974.13	4.86538b	(16120624)	449437.68
3758974.13	4.74372b	(16120624)		
449441.55	3758974.13	4.62163b	(16120624)	449445.42
3758974.13	4.50549b	(16120624)		
449368.02	3758988.17	8.11693b	(16120624)	449371.89
3758988.17	7.79414b	(16120624)		
449375.76	3758988.17	7.49609b	(16120624)	449379.63
3758988.17	7.21994b	(16120624)		
449383.50	3758988.17	6.99999b	(16120624)	449387.37
3758988.17	6.76779b	(16120624)		
449391.24	3758988.17	6.55030b	(16120624)	449395.11
3758988.17	6.34552b	(16120624)		
449398.98	3758988.17	6.17307b	(16120624)	449402.85
3758988.17	5.99109b	(16120624)		
449406.72	3758988.17	5.81876b	(16120624)	449410.59
3758988.17	5.67273b	(16120624)		
449414.46	3758988.17	5.52118b	(16120624)	449418.33
3758988.17	5.38727b	(16120624)		
449422.20	3758988.17	5.25542b	(16120624)	449426.07
3758988.17	5.11739b	(16120624)		
449429.94	3758988.17	4.99162b	(16120624)	449433.81
3758988.17	4.86857b	(16120624)		
449437.68	3758988.17	4.74892b	(16120624)	449441.55
3758988.17	4.62715b	(16120624)		
449445.42	3758988.17	4.51477b	(16120624)	449368.02
3759002.21	8.06667b	(16120624)		
449371.89	3759002.21	7.74520b	(16120624)	449375.76

3759002.21	7.44828b (16120624)	
449379.63	3759002.21	7.17395b (16120624) 449383.50
3759002.21	6.96701b (16120624)	
449387.37	3759002.21	6.73946b (16120624) 449391.24
3759002.21	6.55114b (16120624)	
449395.11	3759002.21	6.34964b (16120624) 449398.98
3759002.21	6.15946b (16120624)	
449402.85	3759002.21	5.99743b (16120624) 449406.72
3759002.21	5.82649b (16120624)	
449410.59	3759002.21	5.67895b (16120624) 449414.46
3759002.21	5.52523b (16120624)	
449418.33	3759002.21	5.38959b (16120624) 449422.20
3759002.21	5.24751b (16120624)	
449426.07	3759002.21	5.12011b (16120624) 449429.94
3759002.21	4.99553b (16120624)	
449433.81	3759002.21	4.86738b (16120624) 449437.68
3759002.21	4.75101b (16120624)	
449441.55	3759002.21	4.63095b (16120624) 449445.42
3759002.21	4.52010b (16120624)	
449368.02	3759016.25	8.05110b (16120624) 449371.89
3759016.25	7.73059b (16120624)	
449375.76	3759016.25	7.43446b (16120624) 449379.63
3759016.25	7.16082b (16120624)	
449383.50	3759016.25	6.92621b (16120624) 449387.37
3759016.25	6.73693b (16120624)	
449391.24	3759016.25	6.52765b (16120624) 449395.11
3759016.25	6.35269b (16120624)	
449398.98	3759016.25	6.16435b (16120624) 449402.85
3759016.25	5.98596b (16120624)	
449406.72	3759016.25	5.83278b (16120624) 449410.59
3759016.25	5.67031b (16120624)	
449414.46	3759016.25	5.52831b (16120624) 449418.33
3759016.25	5.37985b (16120624)	
449422.20	3759016.25	5.24888b (16120624) 449426.07
3759016.25	5.11212b (16120624)	
449429.94	3759016.25	4.98998b (16120624) 449433.81
3759016.25	4.86361b (16120624)	
449437.68	3759016.25	4.75005b (16120624) 449441.55
3759016.25	4.63846b (16120624)	
449445.42	3759016.25	4.52268b (16120624) 449368.02
3759030.29	8.12440b (16120624)	

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
 HRA\PM10\PM10.ISC *** 11/11/21
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION

VALUES 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
,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM₁₀ IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449371.89	3759030.29	7.79925b	(16120624)	449375.76
3759030.29	7.49908b	(16120624)		
449379.63	3759030.29	7.22175b	(16120624)	449383.50
3759030.29	7.00786b	(16120624)		
449387.37	3759030.29	6.77988b	(16120624)	449391.24
3759030.29	6.58504b	(16120624)		
449395.11	3759030.29	6.38130b	(16120624)	449398.98
3759030.29	6.20393b	(16120624)		
449402.85	3759030.29	6.02009b	(16120624)	449406.72
3759030.29	5.85794b	(16120624)		
449410.59	3759030.29	5.69102b	(16120624)	449414.46
3759030.29	5.54261b	(16120624)		
449418.33	3759030.29	5.39149b	(16120624)	449422.20
3759030.29	5.24650b	(16120624)		
449426.07	3759030.29	5.11699b	(16120624)	449429.94
3759030.29	4.98511b	(16120624)		
449433.81	3759030.29	4.86613b	(16120624)	449437.68
3759030.29	4.74517b	(16120624)		
449441.55	3759030.29	4.63338b	(16120624)	449445.42
3759030.29	4.51707b	(16120624)		
449368.02	3759044.33	8.20865b	(16120624)	449371.89
3759044.33	7.87926b	(16120624)		
449375.76	3759044.33	7.57540b	(16120624)	449379.63
3759044.33	7.29516b	(16120624)		
449383.50	3759044.33	7.06519b	(16120624)	449387.37
3759044.33	6.82999b	(16120624)		
449391.24	3759044.33	6.62334b	(16120624)	449395.11
3759044.33	6.41359b	(16120624)		
449398.98	3759044.33	6.22725b	(16120624)	449402.85
3759044.33	6.03854b	(16120624)		

449406.72	3759044.33	5.86900b (16120624)	449410.59
3759044.33	5.69837b (16120624)		
449414.46	3759044.33	5.53717b (16120624)	449418.33
3759044.33	5.39253b (16120624)		
449422.20	3759044.33	5.24726b (16120624)	449426.07
3759044.33	5.10893b (16120624)		
449429.94	3759044.33	4.98458b (16120624)	449433.81
3759044.33	4.85883b (16120624)		
449437.68	3759044.33	4.73888b (16120624)	449441.55
3759044.33	4.62709b (16120624)		
449445.42	3759044.33	4.51029b (16120624)	

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\PM10\PM10.ISC                    ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
***                                     11:46:36

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

**

GROUP ID		NETWORK	AVERAGE CONC	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)		OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS		4.91002 AT (	449368.02, 3759044.33,
198.07,	198.07, 0.00) DC			
	2ND HIGHEST VALUE IS		4.90619 AT (	449368.02, 3758889.89,
195.17,	195.17, 0.00) DC			
	3RD HIGHEST VALUE IS		4.90405 AT (	449368.02, 3758903.93,
195.79,	195.79, 0.00) DC			
	4TH HIGHEST VALUE IS		4.90328 AT (	449368.02, 3758875.85,
194.70,	194.70, 0.00) DC			
	5TH HIGHEST VALUE IS		4.89493 AT (	449368.02, 3758861.81,
194.14,	194.14, 0.00) DC			
	6TH HIGHEST VALUE IS		4.87708 AT (	449368.02, 3758917.97,
196.55,	196.55, 0.00) DC			
	7TH HIGHEST VALUE IS		4.86790 AT (	449368.02, 3758847.77,
193.38,	193.38, 0.00) DC			
	8TH HIGHEST VALUE IS		4.85692 AT (	449368.02, 3759030.29,
198.53,	198.53, 0.00) DC			

9TH HIGHEST VALUE IS 4.85351 AT (449368.02, 3758932.01,
 197.19, 197.19, 0.00) DC
 10TH HIGHEST VALUE IS 4.84819 AT (449368.02, 3758988.17,
 198.06, 198.06, 0.00) DC

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

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR
 RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
 **

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

ALL HIGH 1ST HIGH VALUE IS 8.22278b ON 16120624: AT (449368.02,
 3758889.89, 195.17, 195.17, 0.00) DC

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

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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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 1638 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified (1.37 Percent)

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

** Lakes Environmental AERMOD MPI
**

**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ADI
**

**
**

** AERMOD CONTROL PATHWAY

**
**
CO STARTING
TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\PM25\PM25.ISC
MODELOPT DFAULT CONC
AVERTIME 24
URBANOPT 2189641

POLLUTID PM_2.5
RUNORNOT RUN
ERRORFIL PM25.ERR
CO FINISHED

**

** AERMOD SOURCE PATHWAY

**

**

SO STARTING

** SOURCE LOCATION **

** SOURCE ID - TYPE - X COORD. - Y COORD. **

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE1

** DESCRSRC I-15 FREEWAY

** PREFIX

** LENGTH OF SIDE = 46.00

** CONFIGURATION = ADJACENT

** EMISSION RATE = 0.053663

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 2

** 449288.372, 3758373.924, 188.51, 3.49, 21.40

** 449298.585, 3759554.578, 201.92, 3.49, 21.40

**

LOCATION L0000287 VOLUME 449288.571 3758396.923 188.77
LOCATION L0000288 VOLUME 449288.969 3758442.921 189.29
LOCATION L0000289 VOLUME 449289.367 3758488.920 189.82
LOCATION L0000290 VOLUME 449289.765 3758534.918 190.34
LOCATION L0000291 VOLUME 449290.163 3758580.916 190.86
LOCATION L0000292 VOLUME 449290.561 3758626.914 191.38
LOCATION L0000293 VOLUME 449290.958 3758672.913 191.91
LOCATION L0000294 VOLUME 449291.356 3758718.911 192.43
LOCATION L0000295 VOLUME 449291.754 3758764.909 192.95
LOCATION L0000296 VOLUME 449292.152 3758810.908 193.47
LOCATION L0000297 VOLUME 449292.550 3758856.906 194.00
LOCATION L0000298 VOLUME 449292.948 3758902.904 194.52
LOCATION L0000299 VOLUME 449293.346 3758948.902 195.04
LOCATION L0000300 VOLUME 449293.744 3758994.901 195.56
LOCATION L0000301 VOLUME 449294.142 3759040.899 196.09
LOCATION L0000302 VOLUME 449294.540 3759086.897 196.61
LOCATION L0000303 VOLUME 449294.938 3759132.895 197.13
LOCATION L0000304 VOLUME 449295.335 3759178.894 197.65
LOCATION L0000305 VOLUME 449295.733 3759224.892 198.18
LOCATION L0000306 VOLUME 449296.131 3759270.890 198.70
LOCATION L0000307 VOLUME 449296.529 3759316.889 199.22
LOCATION L0000308 VOLUME 449296.927 3759362.887 199.74
LOCATION L0000309 VOLUME 449297.325 3759408.885 200.27

LOCATION L000310 VOLUME 449297.723 3759454.883 200.79
LOCATION L000311 VOLUME 449298.121 3759500.882 201.31
LOCATION L000312 VOLUME 449298.519 3759546.880 201.83

** END OF LINE VOLUME SOURCE ID = SLINE1

** SOURCE PARAMETERS **

** LINE VOLUME SOURCE ID = SLINE1

SRCPARAM L000287	0.0020639615	3.49	21.40	3.25
SRCPARAM L000288	0.0020639615	3.49	21.40	3.25
SRCPARAM L000289	0.0020639615	3.49	21.40	3.25
SRCPARAM L000290	0.0020639615	3.49	21.40	3.25
SRCPARAM L000291	0.0020639615	3.49	21.40	3.25
SRCPARAM L000292	0.0020639615	3.49	21.40	3.25
SRCPARAM L000293	0.0020639615	3.49	21.40	3.25
SRCPARAM L000294	0.0020639615	3.49	21.40	3.25
SRCPARAM L000295	0.0020639615	3.49	21.40	3.25
SRCPARAM L000296	0.0020639615	3.49	21.40	3.25
SRCPARAM L000297	0.0020639615	3.49	21.40	3.25
SRCPARAM L000298	0.0020639615	3.49	21.40	3.25
SRCPARAM L000299	0.0020639615	3.49	21.40	3.25
SRCPARAM L000300	0.0020639615	3.49	21.40	3.25
SRCPARAM L000301	0.0020639615	3.49	21.40	3.25
SRCPARAM L000302	0.0020639615	3.49	21.40	3.25
SRCPARAM L000303	0.0020639615	3.49	21.40	3.25
SRCPARAM L000304	0.0020639615	3.49	21.40	3.25
SRCPARAM L000305	0.0020639615	3.49	21.40	3.25
SRCPARAM L000306	0.0020639615	3.49	21.40	3.25
SRCPARAM L000307	0.0020639615	3.49	21.40	3.25
SRCPARAM L000308	0.0020639615	3.49	21.40	3.25
SRCPARAM L000309	0.0020639615	3.49	21.40	3.25
SRCPARAM L000310	0.0020639615	3.49	21.40	3.25
SRCPARAM L000311	0.0020639615	3.49	21.40	3.25
SRCPARAM L000312	0.0020639615	3.49	21.40	3.25

** -----

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD RECEPTOR PATHWAY

**

**

RE STARTING
INCLUDED PM25.ROU

RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

**
ME STARTING
SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC
PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL
SURFDATA 3171 2012
UAIRDATA 3190 2012
PROFBASE 245.0 METERS

ME FINISHED
**

** AERMOD OUTPUT PATHWAY

**
**
OU STARTING
RECTABLE ALLAVE 1ST
RECTABLE 24 1ST
** AUTO-GENERATED PLOTFILES
PLOTFILE 24 ALL 1ST PM25.AD\24H1GALL.PLT 31
SUMMFILE PM25.SUM
OU FINISHED

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

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

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

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
HRA\PM25\PM25.ISC *** 11/11/21
*** AERMET - VERSION 16216 *** ***
*** 12:00:31

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

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

**Other Options Specified:

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

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: PM_2.5

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes: 26 Source(s); 1 Source Group(s); and 441 Receptor(s)

- with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
- and: 26 VOLUME source(s)
- and: 0 AREA type source(s)
- and: 0 LINE source(s)
- and: 0 RLINE/RLINEXT source(s)
- and: 0 OPENPIT source(s)

and: 0 BUOYANT LINE source(s) with 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 Highest Short Term Values by Receptor (RECTABLE
Keyword)

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

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

Hours

b for Both Calm

and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ;

Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: PM25.ERR

**File for Summary of Results: PM25.SUM

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT.

INIT. SZ	URBAN SOURCE ID (METERS)	EMISSION RATE PART. (GRAMS/SEC) SCALAR VARY CATS. BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)
	L0000287	0 0.20640E-02	449288.6	3758396.9	188.8	3.49	21.40
3.25	YES						
	L0000288	0 0.20640E-02	449289.0	3758442.9	189.3	3.49	21.40
3.25	YES						
	L0000289	0 0.20640E-02	449289.4	3758488.9	189.8	3.49	21.40
3.25	YES						
	L0000290	0 0.20640E-02	449289.8	3758534.9	190.3	3.49	21.40
3.25	YES						
	L0000291	0 0.20640E-02	449290.2	3758580.9	190.9	3.49	21.40
3.25	YES						
	L0000292	0 0.20640E-02	449290.6	3758626.9	191.4	3.49	21.40
3.25	YES						
	L0000293	0 0.20640E-02	449291.0	3758672.9	191.9	3.49	21.40
3.25	YES						
	L0000294	0 0.20640E-02	449291.4	3758718.9	192.4	3.49	21.40
3.25	YES						
	L0000295	0 0.20640E-02	449291.8	3758764.9	193.0	3.49	21.40
3.25	YES						
	L0000296	0 0.20640E-02	449292.2	3758810.9	193.5	3.49	21.40
3.25	YES						
	L0000297	0 0.20640E-02	449292.5	3758856.9	194.0	3.49	21.40
3.25	YES						
	L0000298	0 0.20640E-02	449292.9	3758902.9	194.5	3.49	21.40
3.25	YES						
	L0000299	0 0.20640E-02	449293.3	3758948.9	195.0	3.49	21.40
3.25	YES						
	L0000300	0 0.20640E-02	449293.7	3758994.9	195.6	3.49	21.40
3.25	YES						
	L0000301	0 0.20640E-02	449294.1	3759040.9	196.1	3.49	21.40
3.25	YES						
	L0000302	0 0.20640E-02	449294.5	3759086.9	196.6	3.49	21.40
3.25	YES						
	L0000303	0 0.20640E-02	449294.9	3759132.9	197.1	3.49	21.40
3.25	YES						
	L0000304	0 0.20640E-02	449295.3	3759178.9	197.7	3.49	21.40
3.25	YES						
	L0000305	0 0.20640E-02	449295.7	3759224.9	198.2	3.49	21.40
3.25	YES						
	L0000306	0 0.20640E-02	449296.1	3759270.9	198.7	3.49	21.40
3.25	YES						
	L0000307	0 0.20640E-02	449296.5	3759316.9	199.2	3.49	21.40
3.25	YES						

```

L0000308      0  0.20640E-02  449296.9  3759362.9   199.7    3.49   21.40
3.25      YES
L0000309      0  0.20640E-02  449297.3  3759408.9   200.3    3.49   21.40
3.25      YES
L0000310      0  0.20640E-02  449297.7  3759454.9   200.8    3.49   21.40
3.25      YES
L0000311      0  0.20640E-02  449298.1  3759500.9   201.3    3.49   21.40
3.25      YES
L0000312      0  0.20640E-02  449298.5  3759546.9   201.8    3.49   21.40
3.25      YES

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^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172
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***                               12:00:31

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

```

SRCGROUP ID                SOURCE IDs
-----
ALL      L0000287 , L0000288 , L0000289 , L0000290 , L0000291 ,
L0000292 , L0000293 , L0000294 ,

L0000300      L0000295 , L0000296 , L0000297 , L0000298 , L0000299 ,
L0000300      , L0000301 , L0000302 ,

L0000308      L0000303 , L0000304 , L0000305 , L0000306 , L0000307 ,
L0000308      , L0000309 , L0000310 ,

L0000311      , L0000312 ,

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^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 ***   ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

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URBAN ID  URBAN POP                SOURCE IDs
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```

2189641. L0000287 , L0000288 , L0000289 , L0000290 ,
L0000291 , L0000292 , L0000293 ,
L0000294 ,

L0000295 , L0000296 , L0000297 , L0000298 , L0000299 ,
L0000300 , L0000301 , L0000302 ,

L0000303 , L0000304 , L0000305 , L0000306 , L0000307 ,
L0000308 , L0000309 , L0000310 ,

L0000311 , L0000312 ,
▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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(449375.8, 3758763.5, 191.8, 195.0, 0.0); (449379.6,
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▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\PM25\PM25.ISC *** 11/11/21

*** AERMET - VERSION 16216 ***
*** 12:00:31

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

(449391.2, 3758819.7, 191.2, 191.2, 0.0); (449395.1,
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(449418.3, 3758861.8, 191.2, 191.2, 0.0); (449422.2,
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 (449433.8, 3758861.8, 190.2, 190.2, 0.0); (449437.7,
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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
 HRA\PM25\PM25.ISC *** 11/11/21

*** AERMET - VERSION 16216 *** ***
 *** 12:00:31

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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^ *** AERMOD - VERSION 19191 ***    *** C:\LAKES\AERMOD VIEW\14172
HRA\PM25\PM25.ISC                    ***    11/11/21

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*** AERMET - VERSION 16216 ***    ***
***    12:00:31

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PAGE 8

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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\PM25\PM25.ISC *** 11/11/21
 *** AERMET - VERSION 16216 ***
 *** 12:00:31

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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   ( 449445.4, 3759044.3,   194.4,   194.4,   0.0);

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^ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\14172
HRA\PM25\PM25.ISC               ***   11/11/21
*** AERMET - VERSION 16216 ***   ***
***                               ***   12:00:31

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR

PROCESSING ***

(1=YES; 0=NO)

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

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

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

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\PM25\PM25.ISC *** 11/11/21

*** AERMET - VERSION 16216 ***
*** 12:00:31

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: ..\KRAL_V9_ADJU\KRAL_V9.SFC
Met Version: 16216
Profile file: ..\KRAL_V9_ADJU\KRAL_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171
Name: UNKNOWN
Year: 2012

Upper air station no.: 3190
Name: UNKNOWN
Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	
1.00	2.93	55.	10.1	288.1	2.0									
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	
1.00	3.05	55.	10.1	287.0	2.0									
12	01	01	1	03	-21.5	0.221	-9.000	-9.000	-999.	250.	53.5	0.15	2.40	
1.00	2.45	74.	10.1	284.2	2.0									
12	01	01	1	04	-22.0	0.227	-9.000	-9.000	-999.	260.	56.8	0.15	2.40	
1.00	2.52	77.	10.1	285.9	2.0									
12	01	01	1	05	-20.0	0.206	-9.000	-9.000	-999.	225.	46.8	0.15	2.40	
1.00	2.30	80.	10.1	285.4	2.0									
12	01	01	1	06	-14.4	0.171	-9.000	-9.000	-999.	170.	32.1	0.15	2.40	
1.00	1.93	79.	10.1	287.0	2.0									
12	01	01	1	07	-14.9	0.174	-9.000	-9.000	-999.	174.	33.2	0.15	2.40	
1.00	1.96	77.	10.1	284.2	2.0									
12	01	01	1	08	-11.9	0.169	-9.000	-9.000	-999.	167.	36.1	0.15	2.40	
0.53	1.89	77.	10.1	288.1	2.0									
12	01	01	1	09	40.4	0.234	0.359	0.006	40.	272.	-28.1	0.15	2.40	

0.31	2.10	81.	10.1	289.2	2.0								
12	01	01	1	10	112.6	0.246	0.742	0.005	129.	293.	-11.8	0.15	2.40
0.24	1.99	101.	10.1	296.4	2.0								
12	01	01	1	11	161.0	0.402	1.188	0.005	369.	611.	-35.6	0.15	2.40
0.21	3.68	78.	10.1	298.8	2.0								
12	01	01	1	12	184.7	0.337	1.516	0.005	668.	473.	-18.4	0.15	2.40
0.20	2.89	68.	10.1	300.4	2.0								
12	01	01	1	13	183.9	0.310	1.809	0.005	1139.	414.	-14.2	0.15	2.40
0.20	2.57	64.	10.1	302.5	2.0								
12	01	01	1	14	156.6	0.374	1.852	0.005	1434.	549.	-29.5	0.15	2.40
0.22	3.37	63.	10.1	303.1	2.0								
12	01	01	1	15	104.3	0.382	1.658	0.005	1546.	567.	-47.2	0.15	2.40
0.25	3.59	62.	10.1	302.5	2.0								
12	01	01	1	16	31.8	0.374	1.123	0.005	1573.	550.	-145.8	0.15	2.40
0.34	3.76	69.	10.1	300.9	2.0								
12	01	01	1	17	-23.3	0.276	-9.000	-9.000	-999.	354.	84.0	0.15	2.40
0.62	3.03	59.	10.1	297.5	2.0								
12	01	01	1	18	-21.5	0.229	-9.000	-9.000	-999.	264.	57.8	0.15	2.40
1.00	2.54	54.	10.1	295.4	2.0								
12	01	01	1	19	-19.3	0.204	-9.000	-9.000	-999.	221.	45.6	0.15	2.40
1.00	2.27	79.	10.1	292.0	2.0								
12	01	01	1	20	-20.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.15	2.40
1.00	2.42	79.	10.1	292.5	2.0								
12	01	01	1	21	-19.7	0.206	-9.000	-9.000	-999.	225.	46.9	0.15	2.40
1.00	2.30	95.	10.1	290.9	2.0								
12	01	01	1	22	-17.6	0.190	-9.000	-9.000	-999.	199.	39.8	0.15	2.40
1.00	2.13	78.	10.1	290.4	2.0								
12	01	01	1	23	-20.3	0.211	-9.000	-9.000	-999.	233.	49.0	0.15	2.40
1.00	2.35	52.	10.1	289.2	2.0								
12	01	01	1	24	-16.4	0.183	-9.000	-9.000	-999.	189.	37.0	0.15	2.40
1.00	2.06	75.	10.1	288.8	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	55.	2.93	288.2	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\PM25\PM25.ISC                      ***      11/11/21
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***                                     ***      12:00:31

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000287 , L0000288
, L0000289 , L0000290 , L0000291 ,

, L0000297 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296
 , L0000298 , L0000299 ,
 , L0000305 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304
 , L0000306 , L0000307 ,
 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
449368.02	3758763.53	3758763.53	2.22782b	(16120624)	449371.89
3758763.53	449375.76	3758763.53	2.04457b	(16120624)	449379.63
3758763.53	449383.50	3758763.53	1.88907b	(16120624)	449387.37
3758763.53	449391.24	3758763.53	1.75730b	(16120624)	449395.11
3758763.53	449398.98	3758763.53	1.64162b	(16120624)	449402.85
3758763.53	449406.72	3758763.53	1.53957b	(16120624)	449410.59
3758763.53	449414.46	3758763.53	1.45157b	(16120624)	449418.33
3758763.53	449422.20	3758763.53	1.37405b	(16120624)	449426.07
3758763.53	449429.94	3758763.53	1.30395b	(16120624)	449433.81
3758763.53	449437.68	3758763.53	1.24024b	(16120624)	449441.55
3758763.53	449445.42	3758763.53	1.18362b	(16120624)	449368.02
3758777.57	449371.89	3758777.57	2.13134b	(16120624)	449375.76
3758777.57	449379.63	3758777.57	1.95475b	(16120624)	449383.50
3758777.57	449387.37	3758777.57	1.81384b	(16120624)	449391.24
3758777.57	449395.11	3758777.57	1.69129b	(16120624)	449398.98
3758777.57	449402.85	3758777.57	1.58327b	(16120624)	449406.72
3758777.57	449410.59	3758777.57	1.48823b	(16120624)	449414.46

3758777.57	1.44684b (16120624)	
449418.33	3758777.57	1.40741b (16120624) 449422.20
3758777.57	1.36995b (16120624)	
449426.07	3758777.57	1.33433b (16120624) 449429.94
3758777.57	1.30040b (16120624)	
449433.81	3758777.57	1.26804b (16120624) 449437.68
3758777.57	1.23715b (16120624)	
449441.55	3758777.57	1.20860b (16120624) 449445.42
3758777.57	1.18192b (16120624)	
449368.02	3758791.61	2.23473b (16120624) 449371.89
3758791.61	2.13940b (16120624)	
449375.76	3758791.61	2.05095b (16120624) 449379.63
3758791.61	1.96877b (16120624)	
449383.50	3758791.61	1.89535b (16120624) 449387.37
3758791.61	1.82697b (16120624)	
449391.24	3758791.61	1.76311b (16120624) 449395.11
3758791.61	1.70356b (16120624)	
449398.98	3758791.61	1.64749b (16120624) 449402.85
3758791.61	1.59477b (16120624)	
449406.72	3758791.61	1.54512b (16120624) 449410.59
3758791.61	1.49903b (16120624)	
449414.46	3758791.61	1.45710b (16120624) 449418.33
3758791.61	1.41734b (16120624)	
449422.20	3758791.61	1.37975b (16120624) 449426.07
3758791.61	1.34383b (16120624)	
449429.94	3758791.61	1.30963b (16120624) 449433.81
3758791.61	1.27702b (16120624)	
449437.68	3758791.61	1.24589b (16120624) 449441.55
3758791.61	1.21654b (16120624)	
449445.42	3758791.61	1.18899b (16120624) 449368.02
3758805.65	2.24016b (16120624)	
449371.89	3758805.65	2.14717b (16120624) 449375.76
3758805.65	2.06142b (16120624)	
449379.63	3758805.65	1.98198b (16120624) 449383.50
3758805.65	1.90814b (16120624)	
449387.37	3758805.65	1.83936b (16120624) 449391.24
3758805.65	1.77512b (16120624)	
449395.11	3758805.65	1.71499b (16120624) 449398.98
3758805.65	1.65877b (16120624)	
449402.85	3758805.65	1.60572b (16120624) 449406.72
3758805.65	1.55575b (16120624)	
449410.59	3758805.65	1.50934b (16120624) 449414.46
3758805.65	1.46707b (16120624)	
449418.33	3758805.65	1.42699b (16120624) 449422.20
3758805.65	1.38894b (16120624)	
449426.07	3758805.65	1.35275b (16120624) 449429.94
3758805.65	1.31845b (16120624)	

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 *** AERMET - VERSION 16216 ***

*** 12:00:31

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000287 , L0000288
 , L0000289 , L0000290 , L0000291 ,
 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296
 , L0000297 , L0000298 , L0000299 ,
 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304
 , L0000305 , L0000306 , L0000307 ,
 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449433.81	3758805.65	1.28559b (16120624)	449437.68
3758805.65	1.25423b (16120624)		
449441.55	3758805.65	1.22425b (16120624)	449445.42
3758805.65	1.19557b (16120624)		
449368.02	3758819.69	2.24189b (16120624)	449371.89
3758819.69	2.14893b (16120624)		
449375.76	3758819.69	2.06328b (16120624)	449379.63
3758819.69	1.98371b (16120624)		
449383.50	3758819.69	1.90980b (16120624)	449387.37
3758819.69	1.84096b (16120624)		
449391.24	3758819.69	1.77668b (16120624)	449395.11
3758819.69	1.71674b (16120624)		
449398.98	3758819.69	1.66030b (16120624)	449402.85
3758819.69	1.60724b (16120624)		
449406.72	3758819.69	1.55727b (16120624)	449410.59
3758819.69	1.51087b (16120624)		
449414.46	3758819.69	1.46863b (16120624)	449418.33
3758819.69	1.42857b (16120624)		
449422.20	3758819.69	1.39054b (16120624)	449426.07
3758819.69	1.35453b (16120624)		
449429.94	3758819.69	1.32009b (16120624)	449433.81
3758819.69	1.28724b (16120624)		
449437.68	3758819.69	1.25589b (16120624)	449441.55
3758819.69	1.22592b (16120624)		

449445.42	3758819.69	1.19725b (16120624)	449368.02
3758833.73	2.24301b (16120624)		
449371.89	3758833.73	2.14989b (16120624)	449375.76
3758833.73	2.06416b (16120624)		
449379.63	3758833.73	1.98454b (16120624)	449383.50
3758833.73	1.91059b (16120624)		
449387.37	3758833.73	1.84173b (16120624)	449391.24
3758833.73	1.77744b (16120624)		
449395.11	3758833.73	1.71750b (16120624)	449398.98
3758833.73	1.66106b (16120624)		
449402.85	3758833.73	1.60801b (16120624)	449406.72
3758833.73	1.55805b (16120624)		
449410.59	3758833.73	1.51167b (16120624)	449414.46
3758833.73	1.46948b (16120624)		
449418.33	3758833.73	1.42946b (16120624)	449422.20
3758833.73	1.39147b (16120624)		
449426.07	3758833.73	1.35550b (16120624)	449429.94
3758833.73	1.32108b (16120624)		
449433.81	3758833.73	1.28827b (16120624)	449437.68
3758833.73	1.25694b (16120624)		
449441.55	3758833.73	1.22700b (16120624)	449445.42
3758833.73	1.19835b (16120624)		
449368.02	3758847.77	2.25997b (16120624)	449371.89
3758847.77	2.16765b (16120624)		
449375.76	3758847.77	2.08250b (16120624)	449379.63
3758847.77	2.00349b (16120624)		
449383.50	3758847.77	1.92904b (16120624)	449387.37
3758847.77	1.85985b (16120624)		
449391.24	3758847.77	1.79501b (16120624)	449395.11
3758847.77	1.73429b (16120624)		
449398.98	3758847.77	1.67732b (16120624)	449402.85
3758847.77	1.62375b (16120624)		
449406.72	3758847.77	1.57348b (16120624)	449410.59
3758847.77	1.52622b (16120624)		
449414.46	3758847.77	1.48258b (16120624)	449418.33
3758847.77	1.44142b (16120624)		
449422.20	3758847.77	1.40219b (16120624)	449426.07
3758847.77	1.36491b (16120624)		
449429.94	3758847.77	1.32944b (16120624)	449433.81
3758847.77	1.29564b (16120624)		
449437.68	3758847.77	1.26340b (16120624)	449441.55
3758847.77	1.23301b (16120624)		
449445.42	3758847.77	1.20420b (16120624)	449368.02
3758861.81	2.27250b (16120624)		
449371.89	3758861.81	2.18236b (16120624)	449375.76
3758861.81	2.09822b (16120624)		
449379.63	3758861.81	2.02266b (16120624)	449383.50
3758861.81	1.94842b (16120624)		
449387.37	3758861.81	1.87882b (16120624)	449391.24
3758861.81	1.81376b (16120624)		

449395.11	3758861.81	1.75285b (16120624)	449398.98
3758861.81	1.69551b (16120624)		
449402.85	3758861.81	1.64152b (16120624)	449406.72
3758861.81	1.59063b (16120624)		
449410.59	3758861.81	1.54272b (16120624)	449414.46
3758861.81	1.49758b (16120624)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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 *** AERMET - VERSION 16216 ***
 *** 12:00:31

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000287 , L0000288
 , L0000289 , L0000290 , L0000291 ,
 L0000292 , L0000293 , L0000294 , L0000295 , L0000296
 , L0000297 , L0000298 , L0000299 ,
 L0000300 , L0000301 , L0000302 , L0000303 , L0000304
 , L0000305 , L0000306 , L0000307 ,
 L0000308 , L0000309 , L0000310 , L0000311 , L0000312
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_{2.5} IN MICROGRAMS/M³

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449418.33	3758861.81	1.45481b (16120624)		449422.20
3758861.81	1.41424b (16120624)			
449426.07	3758861.81	1.37584b (16120624)		449429.94
3758861.81	1.33916b (16120624)			
449433.81	3758861.81	1.30423b (16120624)		449437.68
3758861.81	1.27091b (16120624)			
449441.55	3758861.81	1.23990b (16120624)		449445.42
3758861.81	1.21090b (16120624)			
449368.02	3758875.85	2.27672b (16120624)		449371.89
3758875.85	2.18734b (16120624)			
449375.76	3758875.85	2.10422b (16120624)		449379.63
3758875.85	2.02690b (16120624)			
449383.50	3758875.85	1.95646b (16120624)		449387.37
3758875.85	1.88742b (16120624)			
449391.24	3758875.85	1.82476b (16120624)		449395.11

3758875.85	1.76368b (16120624)	
449398.98	3758875.85	1.70640b (16120624) 449402.85
3758875.85	1.65226b (16120624)	
449406.72	3758875.85	1.60120b (16120624) 449410.59
3758875.85	1.55292b (16120624)	
449414.46	3758875.85	1.50725b (16120624) 449418.33
3758875.85	1.46410b (16120624)	
449422.20	3758875.85	1.42301b (16120624) 449426.07
3758875.85	1.38396b (16120624)	
449429.94	3758875.85	1.34680b (16120624) 449433.81
3758875.85	1.31140b (16120624)	
449437.68	3758875.85	1.27777b (16120624) 449441.55
3758875.85	1.24644b (16120624)	
449445.42	3758875.85	1.21725b (16120624) 449368.02
3758889.89	2.27775b (16120624)	
449371.89	3758889.89	2.18861b (16120624) 449375.76
3758889.89	2.10587b (16120624)	
449379.63	3758889.89	2.03214b (16120624) 449383.50
3758889.89	1.96027b (16120624)	
449387.37	3758889.89	1.89431b (16120624) 449391.24
3758889.89	1.83001b (16120624)	
449395.11	3758889.89	1.77124b (16120624) 449398.98
3758889.89	1.71385b (16120624)	
449402.85	3758889.89	1.65978b (16120624) 449406.72
3758889.89	1.60864b (16120624)	
449410.59	3758889.89	1.56025b (16120624) 449414.46
3758889.89	1.51445b (16120624)	
449418.33	3758889.89	1.47102b (16120624) 449422.20
3758889.89	1.42994b (16120624)	
449426.07	3758889.89	1.39074b (16120624) 449429.94
3758889.89	1.35344b (16120624)	
449433.81	3758889.89	1.31789b (16120624) 449437.68
3758889.89	1.28398b (16120624)	
449441.55	3758889.89	1.25262b (16120624) 449445.42
3758889.89	1.22324b (16120624)	
449368.02	3758903.93	2.27599b (16120624) 449371.89
3758903.93	2.18711b (16120624)	
449375.76	3758903.93	2.10501b (16120624) 449379.63
3758903.93	2.02875b (16120624)	
449383.50	3758903.93	1.96154b (16120624) 449387.37
3758903.93	1.89499b (16120624)	
449391.24	3758903.93	1.83487b (16120624) 449395.11
3758903.93	1.77538b (16120624)	
449398.98	3758903.93	1.72112b (16120624) 449402.85
3758903.93	1.66747b (16120624)	
449406.72	3758903.93	1.61852b (16120624) 449410.59
3758903.93	1.57008b (16120624)	
449414.46	3758903.93	1.52384b (16120624) 449418.33
3758903.93	1.47995b (16120624)	
449422.20	3758903.93	1.43822b (16120624) 449426.07

3758903.93	1.39851b (16120624)		
449429.94	3758903.93	1.36069b (16120624)	449433.81
3758903.93	1.32462b (16120624)		
449437.68	3758903.93	1.29020b (16120624)	449441.55
3758903.93	1.25830b (16120624)		
449445.42	3758903.93	1.22888b (16120624)	449368.02
3758917.97	2.26308b (16120624)		
449371.89	3758917.97	2.17457b (16120624)	449375.76
3758917.97	2.09263b (16120624)		
449379.63	3758917.97	2.01689b (16120624)	449383.50
3758917.97	1.95348b (16120624)		
449387.37	3758917.97	1.88882b (16120624)	449391.24
3758917.97	1.83174b (16120624)		
449395.11	3758917.97	1.77398b (16120624)	449398.98
3758917.97	1.72251b (16120624)		

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 ***
 *** 12:00:31

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000287 , L0000288
 , L0000289 , L0000290 , L0000291 ,
 L0000292 , L0000293 , L0000294 , L0000295 , L0000296
 , L0000297 , L0000298 , L0000299 ,
 L0000300 , L0000301 , L0000302 , L0000303 , L0000304
 , L0000305 , L0000306 , L0000307 ,
 L0000308 , L0000309 , L0000310 , L0000311 , L0000312
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449402.85	3758917.97	1.67036b (16120624)	449406.72
3758917.97	1.62338b (16120624)		
449410.59	3758917.97	1.57575b (16120624)	449414.46
3758917.97	1.53190b (16120624)		
449418.33	3758917.97	1.48957b (16120624)	449422.20
3758917.97	1.44724b (16120624)		

449426.07	3758917.97	1.40683b (16120624)	449429.94
3758917.97	1.36811b (16120624)		
449433.81	3758917.97	1.33125b (16120624)	449437.68
3758917.97	1.29601b (16120624)		
449441.55	3758917.97	1.26373b (16120624)	449445.42
3758917.97	1.23403b (16120624)		
449368.02	3758932.01	2.25254b (16120624)	449371.89
3758932.01	2.16380b (16120624)		
449375.76	3758932.01	2.08181b (16120624)	449379.63
3758932.01	2.00595b (16120624)		
449383.50	3758932.01	1.93913b (16120624)	449387.37
3758932.01	1.88213b (16120624)		
449391.24	3758932.01	1.82257b (16120624)	449395.11
3758932.01	1.77068b (16120624)		
449398.98	3758932.01	1.71710b (16120624)	449402.85
3758932.01	1.66981b (16120624)		
449406.72	3758932.01	1.62129b (16120624)	449410.59
3758932.01	1.57805b (16120624)		
449414.46	3758932.01	1.53549b (16120624)	449418.33
3758932.01	1.49189b (16120624)		
449422.20	3758932.01	1.45188b (16120624)	449426.07
3758932.01	1.41323b (16120624)		
449429.94	3758932.01	1.37427b (16120624)	449433.81
3758932.01	1.33698b (16120624)		
449437.68	3758932.01	1.30138b (16120624)	449441.55
3758932.01	1.26865b (16120624)		
449445.42	3758932.01	1.23847b (16120624)	449368.02
3758946.05	2.24274b (16120624)		
449371.89	3758946.05	2.15404b (16120624)	449375.76
3758946.05	2.07213b (16120624)		
449379.63	3758946.05	1.99641b (16120624)	449383.50
3758946.05	1.93785b (16120624)		
449387.37	3758946.05	1.87549b (16120624)	449391.24
3758946.05	1.82221b (16120624)		
449395.11	3758946.05	1.76647b (16120624)	449398.98
3758946.05	1.71774b (16120624)		
449402.85	3758946.05	1.66734b (16120624)	449406.72
3758946.05	1.62281b (16120624)		
449410.59	3758946.05	1.57709b (16120624)	449414.46
3758946.05	1.53586b (16120624)		
449418.33	3758946.05	1.49541b (16120624)	449422.20
3758946.05	1.45387b (16120624)		
449426.07	3758946.05	1.41584b (16120624)	449429.94
3758946.05	1.37888b (16120624)		
449433.81	3758946.05	1.34165b (16120624)	449437.68
3758946.05	1.30597b (16120624)		
449441.55	3758946.05	1.27285b (16120624)	449445.42
3758946.05	1.24202b (16120624)		
449368.02	3758960.09	2.23280b (16120624)	449371.89
3758960.09	2.14436b (16120624)		

Y-COORD (M)	CONC	(YYMMDDHH)	
449387.37	3758974.13	1.87201b (16120624)	449391.24
3758974.13	1.81252b (16120624)		
449395.11	3758974.13	1.76246b (16120624)	449398.98
3758974.13	1.70956b (16120624)		
449402.85	3758974.13	1.66406b (16120624)	449406.72
3758974.13	1.61642b (16120624)		
449410.59	3758974.13	1.57151b (16120624)	449414.46
3758974.13	1.53267b (16120624)		
449418.33	3758974.13	1.49453b (16120624)	449422.20
3758974.13	1.45705b (16120624)		
449426.07	3758974.13	1.41809b (16120624)	449429.94
3758974.13	1.38241b (16120624)		
449433.81	3758974.13	1.34773b (16120624)	449437.68
3758974.13	1.31403b (16120624)		
449441.55	3758974.13	1.28021b (16120624)	449445.42
3758974.13	1.24804b (16120624)		
449368.02	3758988.17	2.24843b (16120624)	449371.89
3758988.17	2.15901b (16120624)		
449375.76	3758988.17	2.07645b (16120624)	449379.63
3758988.17	1.99996b (16120624)		
449383.50	3758988.17	1.93903b (16120624)	449387.37
3758988.17	1.87471b (16120624)		
449391.24	3758988.17	1.81446b (16120624)	449395.11
3758988.17	1.75774b (16120624)		
449398.98	3758988.17	1.70997b (16120624)	449402.85
3758988.17	1.65956b (16120624)		
449406.72	3758988.17	1.61182b (16120624)	449410.59
3758988.17	1.57137b (16120624)		
449414.46	3758988.17	1.52939b (16120624)	449418.33
3758988.17	1.49230b (16120624)		
449422.20	3758988.17	1.45578b (16120624)	449426.07
3758988.17	1.41754b (16120624)		
449429.94	3758988.17	1.38270b (16120624)	449433.81
3758988.17	1.34862b (16120624)		
449437.68	3758988.17	1.31547b (16120624)	449441.55
3758988.17	1.28174b (16120624)		
449445.42	3758988.17	1.25061b (16120624)	449368.02
3759002.21	2.23451b (16120624)		
449371.89	3759002.21	2.14546b (16120624)	449375.76
3759002.21	2.06321b (16120624)		
449379.63	3759002.21	1.98722b (16120624)	449383.50
3759002.21	1.92989b (16120624)		
449387.37	3759002.21	1.86686b (16120624)	449391.24
3759002.21	1.81470b (16120624)		
449395.11	3759002.21	1.75888b (16120624)	449398.98
3759002.21	1.70620b (16120624)		
449402.85	3759002.21	1.66132b (16120624)	449406.72

3759002.21	1.61397b (16120624)	
449410.59	3759002.21	1.57310b (16120624) 449414.46
3759002.21	1.53051b (16120624)	
449418.33	3759002.21	1.49294b (16120624) 449422.20
3759002.21	1.45359b (16120624)	
449426.07	3759002.21	1.41829b (16120624) 449429.94
3759002.21	1.38378b (16120624)	
449433.81	3759002.21	1.34829b (16120624) 449437.68
3759002.21	1.31605b (16120624)	
449441.55	3759002.21	1.28279b (16120624) 449445.42
3759002.21	1.25209b (16120624)	
449368.02	3759016.25	2.23019b (16120624) 449371.89
3759016.25	2.14141b (16120624)	
449375.76	3759016.25	2.05938b (16120624) 449379.63
3759016.25	1.98358b (16120624)	
449383.50	3759016.25	1.91859b (16120624) 449387.37
3759016.25	1.86616b (16120624)	
449391.24	3759016.25	1.80819b (16120624) 449395.11
3759016.25	1.75973b (16120624)	
449398.98	3759016.25	1.70755b (16120624) 449402.85
3759016.25	1.65814b (16120624)	
449406.72	3759016.25	1.61571b (16120624) 449410.59
3759016.25	1.57070b (16120624)	
449414.46	3759016.25	1.53137b (16120624) 449418.33
3759016.25	1.49024b (16120624)	
449422.20	3759016.25	1.45396b (16120624) 449426.07
3759016.25	1.41608b (16120624)	
449429.94	3759016.25	1.38225b (16120624) 449433.81
3759016.25	1.34724b (16120624)	
449437.68	3759016.25	1.31579b (16120624) 449441.55
3759016.25	1.28487b (16120624)	
449445.42	3759016.25	1.25280b (16120624) 449368.02
3759030.29	2.25050b (16120624)	

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000287 , L0000288
 , L0000289 , L0000290 , L0000291 ,
 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296
 , L0000297 , L0000298 , L0000299 ,
 , L0000300 , L0000301 , L0000302 , L0000303 , L0000304
 , L0000305 , L0000306 , L0000307 ,
 , L0000308 , L0000309 , L0000310 , L0000311 , L0000312

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF PM_{2.5} IN MICROGRAMS/M**3

**				
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449371.89	3759030.29	2.16043b	(16120624)	449375.76
3759030.29	2.07728b	(16120624)		
449379.63	3759030.29	2.00046b	(16120624)	449383.50
3759030.29	1.94121b	(16120624)		
449387.37	3759030.29	1.87806b	(16120624)	449391.24
3759030.29	1.82409b	(16120624)		
449395.11	3759030.29	1.76765b	(16120624)	449398.98
3759030.29	1.71852b	(16120624)		
449402.85	3759030.29	1.66759b	(16120624)	449406.72
3759030.29	1.62268b	(16120624)		
449410.59	3759030.29	1.57644b	(16120624)	449414.46
3759030.29	1.53533b	(16120624)		
449418.33	3759030.29	1.49347b	(16120624)	449422.20
3759030.29	1.45331b	(16120624)		
449426.07	3759030.29	1.41743b	(16120624)	449429.94
3759030.29	1.38090b	(16120624)		
449433.81	3759030.29	1.34794b	(16120624)	449437.68
3759030.29	1.31443b	(16120624)		
449441.55	3759030.29	1.28347b	(16120624)	449445.42
3759030.29	1.25125b	(16120624)		
449368.02	3759044.33	2.27383b	(16120624)	449371.89
3759044.33	2.18259b	(16120624)		
449375.76	3759044.33	2.09842b	(16120624)	449379.63
3759044.33	2.02079b	(16120624)		
449383.50	3759044.33	1.95709b	(16120624)	449387.37
3759044.33	1.89194b	(16120624)		
449391.24	3759044.33	1.83470b	(16120624)	449395.11
3759044.33	1.77659b	(16120624)		
449398.98	3759044.33	1.72498b	(16120624)	449402.85
3759044.33	1.67270b	(16120624)		
449406.72	3759044.33	1.62574b	(16120624)	449410.59
3759044.33	1.57847b	(16120624)		
449414.46	3759044.33	1.53382b	(16120624)	449418.33
3759044.33	1.49376b	(16120624)		
449422.20	3759044.33	1.45351b	(16120624)	449426.07
3759044.33	1.41520b	(16120624)		
449429.94	3759044.33	1.38075b	(16120624)	449433.81
3759044.33	1.34592b	(16120624)		

449437.68 3759044.33 1.31269b (16120624) 449441.55
3759044.33 1.28172b (16120624)
449445.42 3759044.33 1.24937b (16120624)

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 24-HR

RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3

**

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

ALL HIGH 1ST HIGH VALUE IS 2.27775b ON 16120624: AT (449368.02,
3758889.89, 195.17, 195.17, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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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 1638 Informational Message(s)

A Total of 43848 Hours Were Processed
A Total of 1039 Calm Hours Identified
A Total of 599 Missing Hours Identified (1.37 Percent)

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

** Lakes Environmental AERMOD MPI
**

**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/11/2021
** FILE: C:\LAKES\AERMOD VIEW\14172 HRA\TOGGAS\TOGGAS.ADI
**

**
**

** AERMOD CONTROL PATHWAY

**
**
CO STARTING
TITLEONE C:\LAKES\AERMOD VIEW\14172 HRA\TOGGAS\TOGGAS.ISC
MODELOPT DFAULT CONC
AVERTIME 1 8 ANNUAL
URBANOPT 2189641
POLLUTID TOGGAS
RUNORNOT RUN
ERRORFIL TOGGAS.ERR
CO FINISHED
**

** AERMOD SOURCE PATHWAY

**

**

SO STARTING

** SOURCE LOCATION **

** SOURCE ID - TYPE - X COORD. - Y COORD. **

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE1

** DESCRSRC I-15 FREEWAY

** PREFIX

** LENGTH OF SIDE = 46.00

** CONFIGURATION = ADJACENT

** EMISSION RATE = 0.00479

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 2

** 449288.372, 3758373.924, 188.51, 3.49, 21.40

** 449298.585, 3759554.578, 201.92, 3.49, 21.40

**

LOCATION	VOLUME	X	Y	Z
L0000183	449288.571	3758396.923	188.77	
L0000184	449288.969	3758442.921	189.29	
L0000185	449289.367	3758488.920	189.82	
L0000186	449289.765	3758534.918	190.34	
L0000187	449290.163	3758580.916	190.86	
L0000188	449290.561	3758626.914	191.38	
L0000189	449290.958	3758672.913	191.91	
L0000190	449291.356	3758718.911	192.43	
L0000191	449291.754	3758764.909	192.95	
L0000192	449292.152	3758810.908	193.47	
L0000193	449292.550	3758856.906	194.00	
L0000194	449292.948	3758902.904	194.52	
L0000195	449293.346	3758948.902	195.04	
L0000196	449293.744	3758994.901	195.56	
L0000197	449294.142	3759040.899	196.09	
L0000198	449294.540	3759086.897	196.61	
L0000199	449294.938	3759132.895	197.13	
L0000200	449295.335	3759178.894	197.65	
L0000201	449295.733	3759224.892	198.18	
L0000202	449296.131	3759270.890	198.70	
L0000203	449296.529	3759316.889	199.22	
L0000204	449296.927	3759362.887	199.74	
L0000205	449297.325	3759408.885	200.27	
L0000206	449297.723	3759454.883	200.79	
L0000207	449298.121	3759500.882	201.31	
L0000208	449298.519	3759546.880	201.83	

** END OF LINE VOLUME SOURCE ID = SLINE1

** SOURCE PARAMETERS **

** LINE VOLUME SOURCE ID = SLINE1

SRCPARAM L0000183	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000184	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000185	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000186	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000187	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000188	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000189	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000190	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000191	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000192	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000193	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000194	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000195	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000196	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000197	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000198	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000199	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000200	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000201	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000202	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000203	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000204	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000205	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000206	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000207	0.0001842308	3.49	21.40	3.25
SRCPARAM L0000208	0.0001842308	3.49	21.40	3.25

**

 URBANSRC ALL

SRCGROUP ALL

SO FINISHED

**

** AERMOD RECEPTOR PATHWAY

**

**

RE STARTING

INCLUDED TOGGAS.ROU

RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

**

ME STARTING

SURFFILE ..\KRAL_V9_ADJU\KRAL_V9.SFC

PROFFILE ..\KRAL_V9_ADJU\KRAL_V9.PFL

SURFDATA 3171 2012

UAIRDATA 3190 2012

PROFBASE 245.0 METERS

ME FINISHED

**

** AERMOD OUTPUT PATHWAY

**

**

OU STARTING

RECTABLE ALLAVE 1ST

RECTABLE 1 1ST

RECTABLE 8 1ST

** AUTO-GENERATED PLOTFILES

PLOTFILE 1 ALL 1ST TOGGAS.AD\01H1GALL.PLT 31

PLOTFILE 8 ALL 1ST TOGGAS.AD\08H1GALL.PLT 32

PLOTFILE ANNUAL ALL TOGGAS.AD\AN00GALL.PLT 33

SUMMFILE TOGGAS.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 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 26 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; 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: TOGGAS

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

**This Run Includes: 26 Source(s); 1 Source Group(s); and 441
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 26 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 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 Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: TOGGAS.ERR

**File for Summary of Results: TOGGAS.SUM

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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

SOURCE SZ SOURCE ID (METERS)	PART. (GRAMS/SEC) SCALAR VARY CATS. BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	
L0000183	0	0.18423E-03	449288.6	3758396.9	188.8	3.49	21.40
3.25 YES							
L0000184	0	0.18423E-03	449289.0	3758442.9	189.3	3.49	21.40
3.25 YES							
L0000185	0	0.18423E-03	449289.4	3758488.9	189.8	3.49	21.40
3.25 YES							
L0000186	0	0.18423E-03	449289.8	3758534.9	190.3	3.49	21.40
3.25 YES							
L0000187	0	0.18423E-03	449290.2	3758580.9	190.9	3.49	21.40
3.25 YES							
L0000188	0	0.18423E-03	449290.6	3758626.9	191.4	3.49	21.40
3.25 YES							
L0000189	0	0.18423E-03	449291.0	3758672.9	191.9	3.49	21.40
3.25 YES							
L0000190	0	0.18423E-03	449291.4	3758718.9	192.4	3.49	21.40
3.25 YES							
L0000191	0	0.18423E-03	449291.8	3758764.9	193.0	3.49	21.40
3.25 YES							
L0000192	0	0.18423E-03	449292.2	3758810.9	193.5	3.49	21.40
3.25 YES							
L0000193	0	0.18423E-03	449292.5	3758856.9	194.0	3.49	21.40
3.25 YES							
L0000194	0	0.18423E-03	449292.9	3758902.9	194.5	3.49	21.40
3.25 YES							
L0000195	0	0.18423E-03	449293.3	3758948.9	195.0	3.49	21.40
3.25 YES							
L0000196	0	0.18423E-03	449293.7	3758994.9	195.6	3.49	21.40
3.25 YES							
L0000197	0	0.18423E-03	449294.1	3759040.9	196.1	3.49	21.40
3.25 YES							
L0000198	0	0.18423E-03	449294.5	3759086.9	196.6	3.49	21.40
3.25 YES							
L0000199	0	0.18423E-03	449294.9	3759132.9	197.1	3.49	21.40
3.25 YES							
L0000200	0	0.18423E-03	449295.3	3759178.9	197.7	3.49	21.40
3.25 YES							
L0000201	0	0.18423E-03	449295.7	3759224.9	198.2	3.49	21.40
3.25 YES							
L0000202	0	0.18423E-03	449296.1	3759270.9	198.7	3.49	21.40
3.25 YES							
L0000203	0	0.18423E-03	449296.5	3759316.9	199.2	3.49	21.40
3.25 YES							
L0000204	0	0.18423E-03	449296.9	3759362.9	199.7	3.49	21.40

3.25	YES							
L0000205		0	0.18423E-03	449297.3	3759408.9	200.3	3.49	21.40
3.25	YES							
L0000206		0	0.18423E-03	449297.7	3759454.9	200.8	3.49	21.40
3.25	YES							
L0000207		0	0.18423E-03	449298.1	3759500.9	201.3	3.49	21.40
3.25	YES							
L0000208		0	0.18423E-03	449298.5	3759546.9	201.8	3.49	21.40

3.25 YES
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID	SOURCE IDs									
-----	-----									
ALL	L0000183	,	L0000184	,	L0000185	,	L0000186	,	L0000187	,
L0000188	,	L0000189	,	L0000190	,					
	L0000191	,	L0000192	,	L0000193	,	L0000194	,	L0000195	,
L0000196	,	L0000197	,	L0000198	,					
	L0000199	,	L0000200	,	L0000201	,	L0000202	,	L0000203	,
L0000204	,	L0000205	,	L0000206	,					
	L0000207	,	L0000208	,						

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

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

2189641. L0000183 , L0000184 , L0000185 , L0000186 ,
 L0000187 , L0000188 , L0000189 ,
 L0000190 ,

 L0000191 , L0000192 , L0000193 , L0000194 , L0000195 ,
 L0000196 , L0000197 , L0000198 ,

 L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,
 L0000204 , L0000205 , L0000206 ,

L0000207 , L0000208 ,
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

(449368.0, 3758763.5, 192.6, 195.0, 0.0); (449371.9,
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 (449422.2, 3758763.5, 189.0, 189.0, 0.0); (449426.1,
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\TOGGAS\TOGGAS.ISC *** 11/11/21

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*** AERMET - VERSION 16216 ***
*** 11:24:07

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
HRA\TOGGAS\TOGGAS.ISC *** 11/11/21

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*** AERMET - VERSION 16216 ***
*** 11:24:07

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

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^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
HRA\TOGGAS\TOGGAS.ISC *** 11/11/21

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*** AERMET - VERSION 16216 *** ***
*** 11:24:07

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

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0.24	1.99	101.			10.1	296.4	2.0						
12	01	01	1	11	161.0	0.402	1.188	0.005	369.	611.	-35.6	0.15	2.40
0.21	3.68	78.			10.1	298.8	2.0						
12	01	01	1	12	184.7	0.337	1.516	0.005	668.	473.	-18.4	0.15	2.40
0.20	2.89	68.			10.1	300.4	2.0						
12	01	01	1	13	183.9	0.310	1.809	0.005	1139.	414.	-14.2	0.15	2.40
0.20	2.57	64.			10.1	302.5	2.0						
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0.22	3.37	63.			10.1	303.1	2.0						
12	01	01	1	15	104.3	0.382	1.658	0.005	1546.	567.	-47.2	0.15	2.40
0.25	3.59	62.			10.1	302.5	2.0						
12	01	01	1	16	31.8	0.374	1.123	0.005	1573.	550.	-145.8	0.15	2.40
0.34	3.76	69.			10.1	300.9	2.0						
12	01	01	1	17	-23.3	0.276	-9.000	-9.000	-999.	354.	84.0	0.15	2.40
0.62	3.03	59.			10.1	297.5	2.0						
12	01	01	1	18	-21.5	0.229	-9.000	-9.000	-999.	264.	57.8	0.15	2.40
1.00	2.54	54.			10.1	295.4	2.0						
12	01	01	1	19	-19.3	0.204	-9.000	-9.000	-999.	221.	45.6	0.15	2.40
1.00	2.27	79.			10.1	292.0	2.0						
12	01	01	1	20	-20.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.15	2.40
1.00	2.42	79.			10.1	292.5	2.0						
12	01	01	1	21	-19.7	0.206	-9.000	-9.000	-999.	225.	46.9	0.15	2.40
1.00	2.30	95.			10.1	290.9	2.0						
12	01	01	1	22	-17.6	0.190	-9.000	-9.000	-999.	199.	39.8	0.15	2.40
1.00	2.13	78.			10.1	290.4	2.0						
12	01	01	1	23	-20.3	0.211	-9.000	-9.000	-999.	233.	49.0	0.15	2.40
1.00	2.35	52.			10.1	289.2	2.0						
12	01	01	1	24	-16.4	0.183	-9.000	-9.000	-999.	189.	37.0	0.15	2.40
1.00	2.06	75.			10.1	288.8	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	10.1	1	55.	2.93	288.2	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\TOGGAS\TOGGAS.ISC                ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
***                                     ***      11:24:07

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PAGE 12

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000183 , L0000184
, L0000185 , L0000186 , L0000187 ,
L0000188 , L0000189 , L0000190 , L0000191 , L0000192

, L0000193 , L0000194 , L0000195 ,
 , L0000201 , L0000202 , L0000203 ,
 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449368.02	3758763.53	0.11874	449371.89
3758763.53	0.11360		
449375.76	3758763.53	0.10877	449379.63
3758763.53	0.10427		
449383.50	3758763.53	0.10029	449387.37
3758763.53	0.09660		
449391.24	3758763.53	0.09314	449395.11
3758763.53	0.08990		
449398.98	3758763.53	0.08686	449402.85
3758763.53	0.08401		
449406.72	3758763.53	0.08134	449410.59
3758763.53	0.07886		
449414.46	3758763.53	0.07661	449418.33
3758763.53	0.07449		
449422.20	3758763.53	0.07247	449426.07
3758763.53	0.07055		
449429.94	3758763.53	0.06873	449433.81
3758763.53	0.06699		
449437.68	3758763.53	0.06533	449441.55
3758763.53	0.06379		
449445.42	3758763.53	0.06234	449368.02
3758777.57	0.11879		
449371.89	3758777.57	0.11342	449375.76
3758777.57	0.10838		
449379.63	3758777.57	0.10372	449383.50
3758777.57	0.09975		
449387.37	3758777.57	0.09607	449391.24
3758777.57	0.09264		
449395.11	3758777.57	0.08943	449398.98
3758777.57	0.08641		
449402.85	3758777.57	0.08358	449406.72
3758777.57	0.08092		
449410.59	3758777.57	0.07846	449414.46
3758777.57	0.07625		

449418.33	3758777.57	0.07415	449422.20
3758777.57	0.07215		
449426.07	3758777.57	0.07025	449429.94
3758777.57	0.06845		
449433.81	3758777.57	0.06673	449437.68
3758777.57	0.06508		
449441.55	3758777.57	0.06358	449445.42
3758777.57	0.06218		
449368.02	3758791.61	0.11905	449371.89
3758791.61	0.11385		
449375.76	3758791.61	0.10902	449379.63
3758791.61	0.10452		
449383.50	3758791.61	0.10053	449387.37
3758791.61	0.09682		
449391.24	3758791.61	0.09335	449395.11
3758791.61	0.09013		
449398.98	3758791.61	0.08709	449402.85
3758791.61	0.08424		
449406.72	3758791.61	0.08156	449410.59
3758791.61	0.07907		
449414.46	3758791.61	0.07683	449418.33
3758791.61	0.07471		
449422.20	3758791.61	0.07271	449426.07
3758791.61	0.07079		
449429.94	3758791.61	0.06897	449433.81
3758791.61	0.06723		
449437.68	3758791.61	0.06558	449441.55
3758791.61	0.06402		
449445.42	3758791.61	0.06257	449368.02
3758805.65	0.11931		
449371.89	3758805.65	0.11426	449375.76
3758805.65	0.10960		
449379.63	3758805.65	0.10529	449383.50
3758805.65	0.10127		
449387.37	3758805.65	0.09754	449391.24
3758805.65	0.09405		
449395.11	3758805.65	0.09079	449398.98
3758805.65	0.08774		
449402.85	3758805.65	0.08487	449406.72
3758805.65	0.08217		
449410.59	3758805.65	0.07967	449414.46
3758805.65	0.07741		
449418.33	3758805.65	0.07526	449422.20
3758805.65	0.07323		
449426.07	3758805.65	0.07130	449429.94
3758805.65	0.06947		

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\TOGGAS\TOGGAS.ISC                ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
***                                     11:24:07

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449433.81	3758805.65	0.06772	449437.68
3758805.65	0.06605		
449441.55	3758805.65	0.06446	449445.42
3758805.65	0.06293		
449368.02	3758819.69	0.11937	449371.89
3758819.69	0.11432		
449375.76	3758819.69	0.10966	449379.63
3758819.69	0.10534		
449383.50	3758819.69	0.10132	449387.37
3758819.69	0.09758		
449391.24	3758819.69	0.09409	449395.11
3758819.69	0.09084		
449398.98	3758819.69	0.08778	449402.85
3758819.69	0.08491		
449406.72	3758819.69	0.08221	449410.59
3758819.69	0.07971		
449414.46	3758819.69	0.07745	449418.33
3758819.69	0.07531		
449422.20	3758819.69	0.07328	449426.07
3758819.69	0.07136		
449429.94	3758819.69	0.06953	449433.81
3758819.69	0.06778		
449437.68	3758819.69	0.06611	449441.55
3758819.69	0.06452		
449445.42	3758819.69	0.06300	449368.02

3758833.73	0.11938		
449371.89	3758833.73	0.11432	449375.76
3758833.73	0.10966		
449379.63	3758833.73	0.10533	449383.50
3758833.73	0.10131		
449387.37	3758833.73	0.09757	449391.24
3758833.73	0.09408		
449395.11	3758833.73	0.09084	449398.98
3758833.73	0.08778		
449402.85	3758833.73	0.08491	449406.72
3758833.73	0.08221		
449410.59	3758833.73	0.07972	449414.46
3758833.73	0.07746		
449418.33	3758833.73	0.07533	449422.20
3758833.73	0.07330		
449426.07	3758833.73	0.07138	449429.94
3758833.73	0.06955		
449433.81	3758833.73	0.06781	449437.68
3758833.73	0.06614		
449441.55	3758833.73	0.06455	449445.42
3758833.73	0.06303		
449368.02	3758847.77	0.12036	449371.89
3758847.77	0.11536		
449375.76	3758847.77	0.11075	449379.63
3758847.77	0.10646		
449383.50	3758847.77	0.10242	449387.37
3758847.77	0.09866		
449391.24	3758847.77	0.09514	449395.11
3758847.77	0.09185		
449398.98	3758847.77	0.08876	449402.85
3758847.77	0.08586		
449406.72	3758847.77	0.08314	449410.59
3758847.77	0.08059		
449414.46	3758847.77	0.07825	449418.33
3758847.77	0.07604		
449422.20	3758847.77	0.07393	449426.07
3758847.77	0.07194		
449429.94	3758847.77	0.07004	449433.81
3758847.77	0.06823		
449437.68	3758847.77	0.06651	449441.55
3758847.77	0.06489		
449445.42	3758847.77	0.06336	449368.02
3758861.81	0.12103		
449371.89	3758861.81	0.11618	449375.76
3758861.81	0.11164		
449379.63	3758861.81	0.10756	449383.50
3758861.81	0.10356		
449387.37	3758861.81	0.09979	449391.24
3758861.81	0.09627		
449395.11	3758861.81	0.09297	449398.98

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3758861.81      0.08986
      449402.85    3758861.81      0.08694      449406.72
3758861.81      0.08418
      449410.59    3758861.81      0.08159      449414.46
3758861.81      0.07915
^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 ***      ***
***      11:24:07

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL      ***
      INCLUDING SOURCE(S):      L0000183      , L0000184
, L0000185      , L0000186      , L0000187      ,
      L0000188      , L0000189      , L0000190      , L0000191      , L0000192
, L0000193      , L0000194      , L0000195      ,
      L0000196      , L0000197      , L0000198      , L0000199      , L0000200
, L0000201      , L0000202      , L0000203      ,
      L0000204      , L0000205      , L0000206      , L0000207      , L0000208
,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
449418.33	3758861.81	0.07684	449422.20
3758861.81	0.07466		
449426.07	3758861.81	0.07259	449429.94
3758861.81	0.07062		
449433.81	3758861.81	0.06874	449437.68
3758861.81	0.06695		
449441.55	3758861.81	0.06530	449445.42
3758861.81	0.06375		
449368.02	3758875.85	0.12124	449371.89
3758875.85	0.11641		
449375.76	3758875.85	0.11193	449379.63
3758875.85	0.10777		
449383.50	3758875.85	0.10400	449387.37
3758875.85	0.10028		
449391.24	3758875.85	0.09690	449395.11
3758875.85	0.09360		

449398.98	3758875.85	0.09050	449402.85
3758875.85	0.08757		
449406.72	3758875.85	0.08481	449410.59
3758875.85	0.08220		
449414.46	3758875.85	0.07973	449418.33
3758875.85	0.07740		
449422.20	3758875.85	0.07518	449426.07
3758875.85	0.07307		
449429.94	3758875.85	0.07107	449433.81
3758875.85	0.06916		
449437.68	3758875.85	0.06736	449441.55
3758875.85	0.06568		
449445.42	3758875.85	0.06413	449368.02
3758889.89	0.12131		
449371.89	3758889.89	0.11648	449375.76
3758889.89	0.11203		
449379.63	3758889.89	0.10805	449383.50
3758889.89	0.10419		
449387.37	3758889.89	0.10064	449391.24
3758889.89	0.09720		
449395.11	3758889.89	0.09402	449398.98
3758889.89	0.09093		
449402.85	3758889.89	0.08800	449406.72
3758889.89	0.08524		
449410.59	3758889.89	0.08263	449414.46
3758889.89	0.08015		
449418.33	3758889.89	0.07781	449422.20
3758889.89	0.07559		
449426.07	3758889.89	0.07348	449429.94
3758889.89	0.07147		
449433.81	3758889.89	0.06955	449437.68
3758889.89	0.06773		
449441.55	3758889.89	0.06605	449445.42
3758889.89	0.06449		
449368.02	3758903.93	0.12126	449371.89
3758903.93	0.11646		
449375.76	3758903.93	0.11203	449379.63
3758903.93	0.10792		
449383.50	3758903.93	0.10427	449387.37
3758903.93	0.10067		
449391.24	3758903.93	0.09745	449395.11
3758903.93	0.09426		
449398.98	3758903.93	0.09134	449402.85
3758903.93	0.08846		
449406.72	3758903.93	0.08582	449410.59
3758903.93	0.08321		
449414.46	3758903.93	0.08071	449418.33
3758903.93	0.07834		
449422.20	3758903.93	0.07609	449426.07
3758903.93	0.07394		

3758917.97	0.07235			
449433.81	3758917.97	0.07036		449437.68
3758917.97	0.06845			
449441.55	3758917.97	0.06672		449445.42
3758917.97	0.06514			
449368.02	3758932.01	0.12001		449371.89
3758932.01	0.11524			
449375.76	3758932.01	0.11083		449379.63
3758932.01	0.10675			
449383.50	3758932.01	0.10317		449387.37
3758932.01	0.10009			
449391.24	3758932.01	0.09688		449395.11
3758932.01	0.09407			
449398.98	3758932.01	0.09118		449402.85
3758932.01	0.08861			
449406.72	3758932.01	0.08600		449410.59
3758932.01	0.08368			
449414.46	3758932.01	0.08140		449418.33
3758932.01	0.07907			
449422.20	3758932.01	0.07692		449426.07
3758932.01	0.07483			
449429.94	3758932.01	0.07273		449433.81
3758932.01	0.07071			
449437.68	3758932.01	0.06878		449441.55
3758932.01	0.06702			
449445.42	3758932.01	0.06541		449368.02
3758946.05	0.11948			
449371.89	3758946.05	0.11472		449375.76
3758946.05	0.11033			
449379.63	3758946.05	0.10627		449383.50
3758946.05	0.10311			
449387.37	3758946.05	0.09977		449391.24
3758946.05	0.09689			
449395.11	3758946.05	0.09389		449398.98
3758946.05	0.09125			
449402.85	3758946.05	0.08853		449406.72
3758946.05	0.08612			
449410.59	3758946.05	0.08365		449414.46
3758946.05	0.08144			
449418.33	3758946.05	0.07927		449422.20
3758946.05	0.07705			
449426.07	3758946.05	0.07500		449429.94
3758946.05	0.07300			
449433.81	3758946.05	0.07100		449437.68
3758946.05	0.06907			
449441.55	3758946.05	0.06729		449445.42
3758946.05	0.06563			
449368.02	3758960.09	0.11898		449371.89
3758960.09	0.11424			
449375.76	3758960.09	0.10986		449379.63

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3758960.09      0.10581
      449383.50    3758960.09      0.10275      449387.37
3758960.09      0.09943
      449391.24    3758960.09      0.09663      449395.11
3758960.09      0.09364
      449398.98    3758960.09      0.09107      449402.85
3758960.09      0.08838
      449406.72    3758960.09      0.08602      449410.59
3758960.09      0.08358
      449414.46    3758960.09      0.08141      449418.33
3758960.09      0.07930
      449422.20    3758960.09      0.07712      449426.07
3758960.09      0.07512
      449429.94    3758960.09      0.07316      449433.81
3758960.09      0.07125
      449437.68    3758960.09      0.06933      449441.55
3758960.09      0.06753
      449445.42    3758960.09      0.06583      449368.02
3758974.13      0.11948
      449371.89    3758974.13      0.11471      449375.76
3758974.13      0.11030
      449379.63    3758974.13      0.10623      449383.50
3758974.13      0.10304

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\TOGGAS\TOGGAS.ISC                ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
***                               ***      11:24:07

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PAGE 16

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
                                INCLUDING SOURCE(S): L0000183 , L0000184
, L0000185 , L0000186 , L0000187 ,
, L0000188 , L0000189 , L0000190 , L0000191 , L0000192
, L0000193 , L0000194 , L0000195 ,
, L0000196 , L0000197 , L0000198 , L0000199 , L0000200
, L0000201 , L0000202 , L0000203 ,
, L0000204 , L0000205 , L0000206 , L0000207 , L0000208
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		

449387.37	3758974.13	0.09964	449391.24
3758974.13	0.09644		
449395.11	3758974.13	0.09374	449398.98
3758974.13	0.09089		
449402.85	3758974.13	0.08843	449406.72
3758974.13	0.08587		
449410.59	3758974.13	0.08345	449414.46
3758974.13	0.08133		
449418.33	3758974.13	0.07927	449422.20
3758974.13	0.07726		
449426.07	3758974.13	0.07518	449429.94
3758974.13	0.07326		
449433.81	3758974.13	0.07139	449437.68
3758974.13	0.06957		
449441.55	3758974.13	0.06775	449445.42
3758974.13	0.06602		
449368.02	3758988.17	0.11987	449371.89
3758988.17	0.11508		
449375.76	3758988.17	0.11065	449379.63
3758988.17	0.10655		
449383.50	3758988.17	0.10326	449387.37
3758988.17	0.09981		
449391.24	3758988.17	0.09657	449395.11
3758988.17	0.09352		
449398.98	3758988.17	0.09095	449402.85
3758988.17	0.08824		
449406.72	3758988.17	0.08567	449410.59
3758988.17	0.08348		
449414.46	3758988.17	0.08121	449418.33
3758988.17	0.07919		
449422.20	3758988.17	0.07723	449426.07
3758988.17	0.07518		
449429.94	3758988.17	0.07332	449433.81
3758988.17	0.07148		
449437.68	3758988.17	0.06969	449441.55
3758988.17	0.06788		
449445.42	3758988.17	0.06620	449368.02
3759002.21	0.11916		
449371.89	3759002.21	0.11439	449375.76
3759002.21	0.10998		
449379.63	3759002.21	0.10591	449383.50
3759002.21	0.10282		
449387.37	3759002.21	0.09944	449391.24
3759002.21	0.09662		
449395.11	3759002.21	0.09362	449398.98
3759002.21	0.09078		
449402.85	3759002.21	0.08836	449406.72
3759002.21	0.08581		

449410.59	3759002.21	0.08360	449414.46
3759002.21	0.08129		
449418.33	3759002.21	0.07926	449422.20
3759002.21	0.07714		
449426.07	3759002.21	0.07525	449429.94
3759002.21	0.07340		
449433.81	3759002.21	0.07150	449437.68
3759002.21	0.06977		
449441.55	3759002.21	0.06798	449445.42
3759002.21	0.06632		
449368.02	3759016.25	0.11893	449371.89
3759016.25	0.11418		
449375.76	3759016.25	0.10980	449379.63
3759016.25	0.10574		
449383.50	3759016.25	0.10226	449387.37
3759016.25	0.09942		
449391.24	3759016.25	0.09631	449395.11
3759016.25	0.09369		
449398.98	3759016.25	0.09089	449402.85
3759016.25	0.08822		
449406.72	3759016.25	0.08592	449410.59
3759016.25	0.08350		
449414.46	3759016.25	0.08136	449418.33
3759016.25	0.07915		
449422.20	3759016.25	0.07719	449426.07
3759016.25	0.07516		
449429.94	3759016.25	0.07336	449433.81
3759016.25	0.07148		
449437.68	3759016.25	0.06980	449441.55
3759016.25	0.06814		
449445.42	3759016.25	0.06641	449368.02
3759030.29	0.12009		

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
449371.89	3759030.29	0.11526	449375.76
3759030.29	0.11080		
449379.63	3759030.29	0.10668	449383.50
3759030.29	0.10348		
449387.37	3759030.29	0.10009	449391.24
3759030.29	0.09717		
449395.11	3759030.29	0.09413	449398.98
3759030.29	0.09147		
449402.85	3759030.29	0.08871	449406.72
3759030.29	0.08628		
449410.59	3759030.29	0.08378	449414.46
3759030.29	0.08158		
449418.33	3759030.29	0.07933	449422.20
3759030.29	0.07718		
449426.07	3759030.29	0.07526	449429.94
3759030.29	0.07331		
449433.81	3759030.29	0.07154	449437.68
3759030.29	0.06975		
449441.55	3759030.29	0.06808	449445.42
3759030.29	0.06634		
449368.02	3759044.33	0.12140	449371.89
3759044.33	0.11650		
449375.76	3759044.33	0.11197	449379.63
3759044.33	0.10780		
449383.50	3759044.33	0.10436	449387.37
3759044.33	0.10084		
449391.24	3759044.33	0.09774	449395.11
3759044.33	0.09459		
449398.98	3759044.33	0.09179	449402.85
3759044.33	0.08897		
449406.72	3759044.33	0.08645	449410.59
3759044.33	0.08391		
449414.46	3759044.33	0.08152	449418.33
3759044.33	0.07937		
449422.20	3759044.33	0.07722	449426.07
3759044.33	0.07517		
449429.94	3759044.33	0.07332	449433.81
3759044.33	0.07146		
449437.68	3759044.33	0.06968	449441.55

3759044.33 0.06801
 449445.42 3759044.33 0.06626

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

VALUES FOR SOURCE GROUP: ALL *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449368.02	3758763.53	0.28794	(13112916)	449371.89
3758763.53	0.27232	(13062606)		
449375.76	3758763.53	0.26122	(13062606)	449379.63
3758763.53	0.25095	(13062606)		
449383.50	3758763.53	0.24155	(13062606)	449387.37
3758763.53	0.23281	(13062606)		
449391.24	3758763.53	0.22466	(13062606)	449395.11
3758763.53	0.21704	(13062606)		
449398.98	3758763.53	0.20989	(13062606)	449402.85
3758763.53	0.20318	(13062606)		
449406.72	3758763.53	0.19687	(13062606)	449410.59
3758763.53	0.19095	(13062606)		
449414.46	3758763.53	0.18541	(13062606)	449418.33
3758763.53	0.18017	(13062606)		
449422.20	3758763.53	0.17519	(13062606)	449426.07
3758763.53	0.17047	(13062606)		
449429.94	3758763.53	0.16598	(13062606)	449433.81
3758763.53	0.16170	(13062606)		

449437.68	3758763.53	0.15762	(13062606)	449441.55
3758763.53	0.15376	(13062606)		
449445.42	3758763.53	0.15007	(13062606)	449368.02
3758777.57	0.28824	(13112916)		
449371.89	3758777.57	0.27300	(13062606)	449375.76
3758777.57	0.26176	(13062606)		
449379.63	3758777.57	0.25136	(13062606)	449383.50
3758777.57	0.24194	(13062606)		
449387.37	3758777.57	0.23319	(13062606)	449391.24
3758777.57	0.22504	(13062606)		
449395.11	3758777.57	0.21741	(13062606)	449398.98
3758777.57	0.21026	(13062606)		
449402.85	3758777.57	0.20354	(13062606)	449406.72
3758777.57	0.19722	(13062606)		
449410.59	3758777.57	0.19129	(13062606)	449414.46
3758777.57	0.18577	(13062606)		
449418.33	3758777.57	0.18053	(13062606)	449422.20
3758777.57	0.17556	(13062606)		
449426.07	3758777.57	0.17085	(13062606)	449429.94
3758777.57	0.16636	(13062606)		
449433.81	3758777.57	0.16208	(13062606)	449437.68
3758777.57	0.15801	(13062606)		
449441.55	3758777.57	0.15415	(13062606)	449445.42
3758777.57	0.15050	(13062606)		
449368.02	3758791.61	0.28942	(13112916)	449371.89
3758791.61	0.27399	(13062606)		
449375.76	3758791.61	0.26284	(13062606)	449379.63
3758791.61	0.25253	(13062606)		
449383.50	3758791.61	0.24309	(13062606)	449387.37
3758791.61	0.23430	(13062606)		
449391.24	3758791.61	0.22611	(13062606)	449395.11
3758791.61	0.21847	(13062606)		
449398.98	3758791.61	0.21129	(13062606)	449402.85
3758791.61	0.20456	(13062606)		
449406.72	3758791.61	0.19821	(13062606)	449410.59
3758791.61	0.19226	(13062606)		
449414.46	3758791.61	0.18671	(13062606)	449418.33
3758791.61	0.18145	(13062606)		
449422.20	3758791.61	0.17647	(13062606)	449426.07
3758791.61	0.17173	(13062606)		
449429.94	3758791.61	0.16722	(13062606)	449433.81
3758791.61	0.16293	(13062606)		
449437.68	3758791.61	0.15883	(13062606)	449441.55
3758791.61	0.15494	(13062606)		
449445.42	3758791.61	0.15124	(13062606)	449368.02
3758805.65	0.29020	(13112916)		
449371.89	3758805.65	0.27494	(13062606)	449375.76
3758805.65	0.26386	(13062606)		
449379.63	3758805.65	0.25363	(13062606)	449383.50
3758805.65	0.24416	(13062606)		

449387.37	3758805.65	0.23534	(13062606)	449391.24
3758805.65	0.22713	(13062606)		
449395.11	3758805.65	0.21945	(13062606)	449398.98
3758805.65	0.21226	(13062606)		
449402.85	3758805.65	0.20550	(13062606)	449406.72
3758805.65	0.19914	(13062606)		
449410.59	3758805.65	0.19317	(13062606)	449414.46
3758805.65	0.18759	(13062606)		
449418.33	3758805.65	0.18231	(13062606)	449422.20
3758805.65	0.17730	(13062606)		
449426.07	3758805.65	0.17254	(13062606)	449429.94
3758805.65	0.16803	(13062606)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449433.81	3758805.65	0.16372	(13062606)	449437.68
3758805.65	0.15961	(13062606)		
449441.55	3758805.65	0.15568	(13062606)	449445.42
3758805.65	0.15193	(13062606)		
449368.02	3758819.69	0.29061	(13112916)	449371.89
3758819.69	0.27562	(13062606)		
449375.76	3758819.69	0.26453	(13062606)	449379.63
3758819.69	0.25427	(13062606)		
449383.50	3758819.69	0.24477	(13062606)	449387.37

3758819.69	0.23594	(13062606)	
449391.24	3758819.69	0.22771	(13062606) 449395.11
3758819.69	0.22002	(13062606)	
449398.98	3758819.69	0.21281	(13062606) 449402.85
3758819.69	0.20604	(13062606)	
449406.72	3758819.69	0.19967	(13062606) 449410.59
3758819.69	0.19369	(13062606)	
449414.46	3758819.69	0.18810	(13062606) 449418.33
3758819.69	0.18281	(13062606)	
449422.20	3758819.69	0.17780	(13062606) 449426.07
3758819.69	0.17304	(13062606)	
449429.94	3758819.69	0.16851	(13062606) 449433.81
3758819.69	0.16420	(13062606)	
449437.68	3758819.69	0.16008	(13062606) 449441.55
3758819.69	0.15615	(13062606)	
449445.42	3758819.69	0.15239	(13062606) 449368.02
3758833.73	0.29111	(13112916)	
449371.89	3758833.73	0.27623	(13062606) 449375.76
3758833.73	0.26511	(13062606)	
449379.63	3758833.73	0.25484	(13062606) 449383.50
3758833.73	0.24532	(13062606)	
449387.37	3758833.73	0.23647	(13062606) 449391.24
3758833.73	0.22822	(13062606)	
449395.11	3758833.73	0.22052	(13062606) 449398.98
3758833.73	0.21330	(13062606)	
449402.85	3758833.73	0.20652	(13062606) 449406.72
3758833.73	0.20013	(13062606)	
449410.59	3758833.73	0.19414	(13062606) 449414.46
3758833.73	0.18855	(13062606)	
449418.33	3758833.73	0.18325	(13062606) 449422.20
3758833.73	0.17823	(13062606)	
449426.07	3758833.73	0.17347	(13062606) 449429.94
3758833.73	0.16894	(13062606)	
449433.81	3758833.73	0.16462	(13062606) 449437.68
3758833.73	0.16050	(13062606)	
449441.55	3758833.73	0.15656	(13062606) 449445.42
3758833.73	0.15280	(13062606)	
449368.02	3758847.77	0.29380	(13112916) 449371.89
3758847.77	0.27772	(13112916)	
449375.76	3758847.77	0.26630	(13062606) 449379.63
3758847.77	0.25603	(13062606)	
449383.50	3758847.77	0.24648	(13062606) 449387.37
3758847.77	0.23761	(13062606)	
449391.24	3758847.77	0.22934	(13062606) 449395.11
3758847.77	0.22160	(13062606)	
449398.98	3758847.77	0.21435	(13062606) 449402.85
3758847.77	0.20754	(13062606)	
449406.72	3758847.77	0.20114	(13062606) 449410.59
3758847.77	0.19511	(13062606)	
449414.46	3758847.77	0.18945	(13062606) 449418.33

3758847.77	0.18411	(13062606)		
449422.20	3758847.77	0.17903	(13062606)	449426.07
3758847.77	0.17421	(13062606)		
449429.94	3758847.77	0.16963	(13062606)	449433.81
3758847.77	0.16526	(13062606)		
449437.68	3758847.77	0.16110	(13062606)	449441.55
3758847.77	0.15714	(13062606)		
449445.42	3758847.77	0.15337	(13062606)	449368.02
3758861.81	0.29708	(13112916)		
449371.89	3758861.81	0.28117	(13112916)	449375.76
3758861.81	0.26740	(13062606)		
449379.63	3758861.81	0.25716	(13062606)	449383.50
3758861.81	0.24761	(13062606)		
449387.37	3758861.81	0.23872	(13062606)	449391.24
3758861.81	0.23043	(13062606)		
449395.11	3758861.81	0.22268	(13062606)	449398.98
3758861.81	0.21541	(13062606)		
449402.85	3758861.81	0.20858	(13062606)	449406.72
3758861.81	0.20216	(13062606)		
449410.59	3758861.81	0.19610	(13062606)	449414.46
3758861.81	0.19038	(13062606)		

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
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-----	-----	-----	-----	-----

449418.33	3758861.81	0.18497	(13062606)	449422.20
3758861.81	0.17984	(13062606)		
449426.07	3758861.81	0.17497	(13062606)	449429.94
3758861.81	0.17033	(13062606)		
449433.81	3758861.81	0.16592	(13062606)	449437.68
3758861.81	0.16171	(13062606)		
449441.55	3758861.81	0.15772	(13062606)	449445.42
3758861.81	0.15394	(13062606)		
449368.02	3758875.85	0.29832	(13112916)	449371.89
3758875.85	0.28273	(13112916)		
449375.76	3758875.85	0.26838	(13112916)	449379.63
3758875.85	0.25790	(13062606)		
449383.50	3758875.85	0.24837	(13062606)	449387.37
3758875.85	0.23948	(13062606)		
449391.24	3758875.85	0.23120	(13062606)	449395.11
3758875.85	0.22343	(13062606)		
449398.98	3758875.85	0.21616	(13062606)	449402.85
3758875.85	0.20932	(13062606)		
449406.72	3758875.85	0.20288	(13062606)	449410.59
3758875.85	0.19680	(13062606)		
449414.46	3758875.85	0.19106	(13062606)	449418.33
3758875.85	0.18563	(13062606)		
449422.20	3758875.85	0.18048	(13062606)	449426.07
3758875.85	0.17558	(13062606)		
449429.94	3758875.85	0.17092	(13062606)	449433.81
3758875.85	0.16649	(13062606)		
449437.68	3758875.85	0.16226	(13062606)	449441.55
3758875.85	0.15826	(13062606)		
449445.42	3758875.85	0.15446	(13062606)	449368.02
3758889.89	0.29872	(13112916)		
449371.89	3758889.89	0.28306	(13112916)	449375.76
3758889.89	0.26879	(13112916)		
449379.63	3758889.89	0.25851	(13062606)	449383.50
3758889.89	0.24899	(13062606)		
449387.37	3758889.89	0.24010	(13062606)	449391.24
3758889.89	0.23181	(13062606)		
449395.11	3758889.89	0.22404	(13062606)	449398.98
3758889.89	0.21676	(13062606)		
449402.85	3758889.89	0.20991	(13062606)	449406.72
3758889.89	0.20346	(13062606)		
449410.59	3758889.89	0.19738	(13062606)	449414.46
3758889.89	0.19162	(13062606)		
449418.33	3758889.89	0.18618	(13062606)	449422.20
3758889.89	0.18102	(13062606)		
449426.07	3758889.89	0.17611	(13062606)	449429.94
3758889.89	0.17144	(13062606)		
449433.81	3758889.89	0.16700	(13062606)	449437.68
3758889.89	0.16276	(13062606)		
449441.55	3758889.89	0.15875	(13062606)	449445.42
3758889.89	0.15495	(13062606)		

449368.02	3758903.93	0.29792	(13112916)	449371.89
3758903.93	0.28244	(13112916)		
449375.76	3758903.93	0.26929	(13062606)	449379.63
3758903.93	0.25903	(13062606)		
449383.50	3758903.93	0.24953	(13062606)	449387.37
3758903.93	0.24067	(13062606)		
449391.24	3758903.93	0.23240	(13062606)	449395.11
3758903.93	0.22465	(13062606)		
449398.98	3758903.93	0.21738	(13062606)	449402.85
3758903.93	0.21054	(13062606)		
449406.72	3758903.93	0.20409	(13062606)	449410.59
3758903.93	0.19800	(13062606)		
449414.46	3758903.93	0.19222	(13062606)	449418.33
3758903.93	0.18676	(13062606)		
449422.20	3758903.93	0.18157	(13062606)	449426.07
3758903.93	0.17664	(13062606)		
449429.94	3758903.93	0.17196	(13062606)	449433.81
3758903.93	0.16749	(13062606)		
449437.68	3758903.93	0.16323	(13062606)	449441.55
3758903.93	0.15920	(13062606)		
449445.42	3758903.93	0.15538	(13062606)	449368.02
3758917.97	0.29711	(13112916)		
449371.89	3758917.97	0.28154	(13112916)	449375.76
3758917.97	0.26962	(13062606)		
449379.63	3758917.97	0.25936	(13062606)	449383.50
3758917.97	0.24990	(13062606)		
449387.37	3758917.97	0.24107	(13062606)	449391.24
3758917.97	0.23285	(13062606)		
449395.11	3758917.97	0.22513	(13062606)	449398.98
3758917.97	0.21789	(13062606)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\TOGGAS\TOGGAS.ISC *** 11/11/21
 *** AERMET - VERSION 16216 ***
 *** 11:24:07

PAGE 21

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 L0000204 , L0000205 , L0000206 , L0000207 , L0000208
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**				
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		

449402.85	3758917.97	0.21108	(13062606)	449406.72
3758917.97	0.20465	(13062606)		
449410.59	3758917.97	0.19857	(13062606)	449414.46
3758917.97	0.19280	(13062606)		
449418.33	3758917.97	0.18732	(13062606)	449422.20
3758917.97	0.18211	(13062606)		
449426.07	3758917.97	0.17716	(13062606)	449429.94
3758917.97	0.17244	(13062606)		
449433.81	3758917.97	0.16794	(13062606)	449437.68
3758917.97	0.16365	(13062606)		
449441.55	3758917.97	0.15960	(13062606)	449445.42
3758917.97	0.15577	(13062606)		
449368.02	3758932.01	0.29682	(13112916)	449371.89
3758932.01	0.28115	(13112916)		
449375.76	3758932.01	0.26988	(13062606)	449379.63
3758932.01	0.25960	(13062606)		
449383.50	3758932.01	0.25014	(13062606)	449387.37
3758932.01	0.24136	(13062606)		
449391.24	3758932.01	0.23314	(13062606)	449395.11
3758932.01	0.22546	(13062606)		
449398.98	3758932.01	0.21823	(13062606)	449402.85
3758932.01	0.21144	(13062606)		
449406.72	3758932.01	0.20503	(13062606)	449410.59
3758932.01	0.19898	(13062606)		
449414.46	3758932.01	0.19322	(13062606)	449418.33
3758932.01	0.18774	(13062606)		
449422.20	3758932.01	0.18253	(13062606)	449426.07
3758932.01	0.17758	(13062606)		
449429.94	3758932.01	0.17285	(13062606)	449433.81
3758932.01	0.16833	(13062606)		
449437.68	3758932.01	0.16403	(13062606)	449441.55
3758932.01	0.15996	(13062606)		
449445.42	3758932.01	0.15611	(13062606)	449368.02
3758946.05	0.29567	(13112916)		
449371.89	3758946.05	0.28132	(13062606)	449375.76
3758946.05	0.27016	(13062606)		
449379.63	3758946.05	0.25991	(13020301)	449383.50
3758946.05	0.25043	(13062606)		
449387.37	3758946.05	0.24163	(13062606)	449391.24
3758946.05	0.23343	(13062606)		
449395.11	3758946.05	0.22573	(13062606)	449398.98


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, L0000185 , L0000186 , L0000187 ,
, L0000188 , L0000189 , L0000190 , L0000191 , L0000192
, L0000193 , L0000194 , L0000195 ,
, L0000196 , L0000197 , L0000198 , L0000199 , L0000200
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, L0000204 , L0000205 , L0000206 , L0000207 , L0000208
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449387.37	3758974.13	0.24216	(13062606)	449391.24
3758974.13	0.23390	(16092620)		
449395.11	3758974.13	0.22619	(13062606)	449398.98
3758974.13	0.21894	(13062606)		
449402.85	3758974.13	0.21214	(13062606)	449406.72
3758974.13	0.20573	(13062606)		
449410.59	3758974.13	0.19967	(13062606)	449414.46
3758974.13	0.19396	(13062606)		
449418.33	3758974.13	0.18852	(13062606)	449422.20
3758974.13	0.18334	(13062606)		
449426.07	3758974.13	0.17839	(13062606)	449429.94
3758974.13	0.17368	(13062606)		
449433.81	3758974.13	0.16918	(13062606)	449437.68
3758974.13	0.16487	(13062606)		
449441.55	3758974.13	0.16076	(13062606)	449445.42
3758974.13	0.15683	(13062606)		
449368.02	3758988.17	0.29784	(13112916)	449371.89
3758988.17	0.28248	(13062606)		
449375.76	3758988.17	0.27452	(13020301)	449379.63
3758988.17	0.26703	(13020301)		
449383.50	3758988.17	0.25130	(13062606)	449387.37
3758988.17	0.24241	(13062606)		
449391.24	3758988.17	0.23412	(13062606)	449395.11
3758988.17	0.22684	(16092620)		
449398.98	3758988.17	0.21912	(13062606)	449402.85
3758988.17	0.21229	(13062606)		
449406.72	3758988.17	0.20586	(13062606)	449410.59
3758988.17	0.19982	(13062606)		
449414.46	3758988.17	0.19410	(13062606)	449418.33
3758988.17	0.18867	(13062606)		
449422.20	3758988.17	0.18350	(13062606)	449426.07
3758988.17	0.17856	(13062606)		

449429.94	3758988.17	0.17386	(13062606)	449433.81
3758988.17	0.16936	(13062606)		
449437.68	3758988.17	0.16506	(13062606)	449441.55
3758988.17	0.16094	(13062606)		
449445.42	3758988.17	0.15700	(13062606)	449368.02
3759002.21	0.30573	(13020301)		
449371.89	3759002.21	0.29704	(13020301)	449375.76
3759002.21	0.28874	(13020301)		
449379.63	3759002.21	0.28065	(13020301)	449383.50
3759002.21	0.25978	(13020301)		
449387.37	3759002.21	0.25109	(13020301)	449391.24
3759002.21	0.23428	(13062606)		
449395.11	3759002.21	0.22653	(13062606)	449398.98
3759002.21	0.21996	(16092620)		
449402.85	3759002.21	0.21245	(13062606)	449406.72
3759002.21	0.20601	(13062606)		
449410.59	3759002.21	0.19995	(13062606)	449414.46
3759002.21	0.19421	(13062606)		
449418.33	3759002.21	0.18877	(13062606)	449422.20
3759002.21	0.18359	(13062606)		
449426.07	3759002.21	0.17867	(13062606)	449429.94
3759002.21	0.17397	(13062606)		
449433.81	3759002.21	0.16948	(13062606)	449437.68
3759002.21	0.16520	(13062606)		
449441.55	3759002.21	0.16109	(13062606)	449445.42
3759002.21	0.15715	(13062606)		
449368.02	3759016.25	0.30723	(13020301)	449371.89
3759016.25	0.29877	(13020301)		
449375.76	3759016.25	0.29070	(13020301)	449379.63
3759016.25	0.28284	(13020301)		
449383.50	3759016.25	0.27241	(13020301)	449387.37
3759016.25	0.25181	(13020301)		
449391.24	3759016.25	0.24295	(13020301)	449395.11
3759016.25	0.22666	(13062606)		
449398.98	3759016.25	0.21946	(16092620)	449402.85
3759016.25	0.21297	(16092620)		
449406.72	3759016.25	0.20613	(13062606)	449410.59
3759016.25	0.20004	(13062606)		
449414.46	3759016.25	0.19430	(13062606)	449418.33
3759016.25	0.18884	(13062606)		
449422.20	3759016.25	0.18366	(13062606)	449426.07
3759016.25	0.17873	(13062606)		
449429.94	3759016.25	0.17404	(13062606)	449433.81
3759016.25	0.16956	(13062606)		
449437.68	3759016.25	0.16529	(13062606)	449441.55
3759016.25	0.16120	(13062606)		
449445.42	3759016.25	0.15726	(13062606)	449368.02
3759030.29	0.29967	(13112916)		

*** AERMET - VERSION 16216 ***
 *** 11:24:07

PAGE 23

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

 VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449371.89	3759030.29	0.28934	(13020301)	449375.76
3759030.29	0.28151	(13020301)		
449379.63	3759030.29	0.27393	(13020301)	449383.50
3759030.29	0.25338	(13020301)		
449387.37	3759030.29	0.24551	(16092620)	449391.24
3759030.29	0.23467	(13062606)		
449395.11	3759030.29	0.22688	(13062606)	449398.98
3759030.29	0.21958	(13062606)		
449402.85	3759030.29	0.21270	(13062606)	449406.72
3759030.29	0.20623	(13062606)		
449410.59	3759030.29	0.20010	(13062606)	449414.46
3759030.29	0.19432	(13062606)		
449418.33	3759030.29	0.18884	(13062606)	449422.20
3759030.29	0.18364	(13062606)		
449426.07	3759030.29	0.17870	(13062606)	449429.94
3759030.29	0.17400	(13062606)		
449433.81	3759030.29	0.16953	(13062606)	449437.68
3759030.29	0.16526	(13062606)		
449441.55	3759030.29	0.16116	(13062606)	449445.42
3759030.29	0.15721	(13062606)		
449368.02	3759044.33	0.30209	(13112916)	449371.89
3759044.33	0.28630	(13112916)		
449375.76	3759044.33	0.27238	(13062606)	449379.63

449375.76	3758763.53	0.22229c (12121708)	449379.63
3758763.53	0.21355c (12121708)		
449383.50	3758763.53	0.20555c (12121708)	449387.37
3758763.53	0.19812c (12121708)		
449391.24	3758763.53	0.19118c (12121708)	449395.11
3758763.53	0.18469c (12121708)		
449398.98	3758763.53	0.17861c (12121708)	449402.85
3758763.53	0.17289c (12121708)		
449406.72	3758763.53	0.16752c (12121708)	449410.59
3758763.53	0.16248c (12121708)		
449414.46	3758763.53	0.15777c (12121708)	449418.33
3758763.53	0.15331c (12121708)		
449422.20	3758763.53	0.14908c (12121708)	449426.07
3758763.53	0.14506c (12121708)		
449429.94	3758763.53	0.14124c (12121708)	449433.81
3758763.53	0.13760c (12121708)		
449437.68	3758763.53	0.13413c (12121708)	449441.55
3758763.53	0.13084c (12121708)		
449445.42	3758763.53	0.12771c (12121708)	449368.02
3758777.57	0.24267c (12121708)		
449371.89	3758777.57	0.23231c (12121708)	449375.76
3758777.57	0.22273c (12121708)		
449379.63	3758777.57	0.21387c (12121708)	449383.50
3758777.57	0.20585c (12121708)		
449387.37	3758777.57	0.19840c (12121708)	449391.24
3758777.57	0.19147c (12121708)		
449395.11	3758777.57	0.18497c (12121708)	449398.98
3758777.57	0.17889c (12121708)		
449402.85	3758777.57	0.17317c (12121708)	449406.72
3758777.57	0.16779c (12121708)		
449410.59	3758777.57	0.16275c (12121708)	449414.46
3758777.57	0.15805c (12121708)		
449418.33	3758777.57	0.15360c (12121708)	449422.20
3758777.57	0.14937c (12121708)		
449426.07	3758777.57	0.14536c (12121708)	449429.94
3758777.57	0.14154c (12121708)		
449433.81	3758777.57	0.13791c (12121708)	449437.68
3758777.57	0.13444c (12121708)		
449441.55	3758777.57	0.13116c (12121708)	449445.42
3758777.57	0.12806c (12121708)		
449368.02	3758791.61	0.24344c (12121708)	449371.89
3758791.61	0.23315c (12121708)		
449375.76	3758791.61	0.22366c (12121708)	449379.63
3758791.61	0.21488c (12121708)		
449383.50	3758791.61	0.20685c (12121708)	449387.37
3758791.61	0.19937c (12121708)		
449391.24	3758791.61	0.19240c (12121708)	449395.11
3758791.61	0.18589c (12121708)		
449398.98	3758791.61	0.17979c (12121708)	449402.85
3758791.61	0.17405c (12121708)		

449406.72	3758791.61	0.16865c (12121708)	449410.59
3758791.61	0.16359c (12121708)		
449414.46	3758791.61	0.15886c (12121708)	449418.33
3758791.61	0.15439c (12121708)		
449422.20	3758791.61	0.15015c (12121708)	449426.07
3758791.61	0.14612c (12121708)		
449429.94	3758791.61	0.14229c (12121708)	449433.81
3758791.61	0.13864c (12121708)		
449437.68	3758791.61	0.13516c (12121708)	449441.55
3758791.61	0.13185c (12121708)		
449445.42	3758791.61	0.12870c (12121708)	449368.02
3758805.65	0.24420c (12121708)		
449371.89	3758805.65	0.23396c (12121708)	449375.76
3758805.65	0.22454c (12121708)		
449379.63	3758805.65	0.21584c (12121708)	449383.50
3758805.65	0.20777c (12121708)		
449387.37	3758805.65	0.20027c (12121708)	449391.24
3758805.65	0.19328c (12121708)		
449395.11	3758805.65	0.18675c (12121708)	449398.98
3758805.65	0.18063c (12121708)		
449402.85	3758805.65	0.17487c (12121708)	449406.72
3758805.65	0.16946c (12121708)		
449410.59	3758805.65	0.16437c (12121708)	449414.46
3758805.65	0.15963c (12121708)		
449418.33	3758805.65	0.15514c (12121708)	449422.20
3758805.65	0.15088c (12121708)		
449426.07	3758805.65	0.14683c (12121708)	449429.94
3758805.65	0.14299c (12121708)		

^ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\TOGGAS\TOGGAS.ISC *** 11/11/21
 *** AERMET - VERSION 16216 ***
 *** 11:24:07

PAGE 25

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449433.81	3758805.65	0.13932c	(12121708)	449437.68
3758805.65	0.13583c	(12121708)		
449441.55	3758805.65	0.13249c	(12121708)	449445.42
3758805.65	0.12930c	(12121708)		
449368.02	3758819.69	0.24480c	(12121708)	449371.89
3758819.69	0.23453c	(12121708)		
449375.76	3758819.69	0.22510c	(12121708)	449379.63
3758819.69	0.21638c	(12121708)		
449383.50	3758819.69	0.20829c	(12121708)	449387.37
3758819.69	0.20078c	(12121708)		
449391.24	3758819.69	0.19377c	(12121708)	449395.11
3758819.69	0.18723c	(12121708)		
449398.98	3758819.69	0.18109c	(12121708)	449402.85
3758819.69	0.17532c	(12121708)		
449406.72	3758819.69	0.16990c	(12121708)	449410.59
3758819.69	0.16481c	(12121708)		
449414.46	3758819.69	0.16006c	(12121708)	449418.33
3758819.69	0.15556c	(12121708)		
449422.20	3758819.69	0.15129c	(12121708)	449426.07
3758819.69	0.14725c	(12121708)		
449429.94	3758819.69	0.14339c	(12121708)	449433.81
3758819.69	0.13972c	(12121708)		
449437.68	3758819.69	0.13622c	(12121708)	449441.55
3758819.69	0.13288c	(12121708)		
449445.42	3758819.69	0.12968c	(12121708)	449368.02
3758833.73	0.24533c	(12121708)		
449371.89	3758833.73	0.23505c	(12121708)	449375.76
3758833.73	0.22559c	(12121708)		
449379.63	3758833.73	0.21685c	(12121708)	449383.50
3758833.73	0.20875c	(12121708)		
449387.37	3758833.73	0.20122c	(12121708)	449391.24
3758833.73	0.19420c	(12121708)		
449395.11	3758833.73	0.18764c	(12121708)	449398.98
3758833.73	0.18149c	(12121708)		
449402.85	3758833.73	0.17572c	(12121708)	449406.72
3758833.73	0.17028c	(12121708)		
449410.59	3758833.73	0.16519c	(12121708)	449414.46
3758833.73	0.16043c	(12121708)		
449418.33	3758833.73	0.15593c	(12121708)	449422.20
3758833.73	0.15166c	(12121708)		
449426.07	3758833.73	0.14761c	(12121708)	449429.94
3758833.73	0.14375c	(12121708)		
449433.81	3758833.73	0.14008c	(12121708)	449437.68

3758833.73	0.13657c (12121708)	
449441.55	3758833.73	0.13322c (12121708) 449445.42
3758833.73	0.13002c (12121708)	
449368.02	3758847.77	0.24636c (12121708) 449371.89
3758847.77	0.23608c (12121708)	
449375.76	3758847.77	0.22663c (12121708) 449379.63
3758847.77	0.21790c (12121708)	
449383.50	3758847.77	0.20977c (12121708) 449387.37
3758847.77	0.20222c (12121708)	
449391.24	3758847.77	0.19518c (12121708) 449395.11
3758847.77	0.18859c (12121708)	
449398.98	3758847.77	0.18242c (12121708) 449402.85
3758847.77	0.17662c (12121708)	
449406.72	3758847.77	0.17117c (12121708) 449410.59
3758847.77	0.16604c (12121708)	
449414.46	3758847.77	0.16123c (12121708) 449418.33
3758847.77	0.15668c (12121708)	
449422.20	3758847.77	0.15236c (12121708) 449426.07
3758847.77	0.14825c (12121708)	
449429.94	3758847.77	0.14435c (12121708) 449433.81
3758847.77	0.14064c (12121708)	
449437.68	3758847.77	0.13709c (12121708) 449441.55
3758847.77	0.13373c (12121708)	
449445.42	3758847.77	0.13052c (12121708) 449368.02
3758861.81	0.24728c (12121708)	
449371.89	3758861.81	0.23704c (12121708) 449375.76
3758861.81	0.22760c (12121708)	
449379.63	3758861.81	0.21889c (12121708) 449383.50
3758861.81	0.21076c (12121708)	
449387.37	3758861.81	0.20320c (12121708) 449391.24
3758861.81	0.19614c (12121708)	
449395.11	3758861.81	0.18955c (12121708) 449398.98
3758861.81	0.18336c (12121708)	
449402.85	3758861.81	0.17754c (12121708) 449406.72
3758861.81	0.17207c (12121708)	
449410.59	3758861.81	0.16691c (12121708) 449414.46
3758861.81	0.16204c (12121708)	

▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14172
 HRA\TOGGAS\TOGGAS.ISC *** 11/11/21
 *** AERMET - VERSION 16216 ***
 *** 11:24:07

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 L0000188 , L0000189 , L0000190 , L0000191 , L0000192

, L0000193 , L0000194 , L0000195 ,
 , L0000201 , L0000202 , L0000203 ,
 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449418.33	3758861.81	0.15743c	(12121708)	449422.20
3758861.81	0.15306c	(12121708)		
449426.07	3758861.81	0.14892c	(12121708)	449429.94
3758861.81	0.14497c	(12121708)		
449433.81	3758861.81	0.14121c	(12121708)	449437.68
3758861.81	0.13763c	(12121708)		
449441.55	3758861.81	0.13423c	(12121708)	449445.42
3758861.81	0.13101c	(12121708)		
449368.02	3758875.85	0.24791c	(12121708)	449371.89
3758875.85	0.23767c	(12121708)		
449375.76	3758875.85	0.22824c	(12121708)	449379.63
3758875.85	0.21953c	(12121708)		
449383.50	3758875.85	0.21143c	(12121708)	449387.37
3758875.85	0.20386c	(12121708)		
449391.24	3758875.85	0.19681c	(12121708)	449395.11
3758875.85	0.19020c	(12121708)		
449398.98	3758875.85	0.18401c	(12121708)	449402.85
3758875.85	0.17819c	(12121708)		
449406.72	3758875.85	0.17271c	(12121708)	449410.59
3758875.85	0.16753c	(12121708)		
449414.46	3758875.85	0.16264c	(12121708)	449418.33
3758875.85	0.15801c	(12121708)		
449422.20	3758875.85	0.15362c	(12121708)	449426.07
3758875.85	0.14945c	(12121708)		
449429.94	3758875.85	0.14549c	(12121708)	449433.81
3758875.85	0.14171c	(12121708)		
449437.68	3758875.85	0.13811c	(12121708)	449441.55
3758875.85	0.13470c	(12121708)		
449445.42	3758875.85	0.13147c	(12121708)	449368.02
3758889.89	0.24846c	(12121708)		
449371.89	3758889.89	0.23821c	(12121708)	449375.76
3758889.89	0.22877c	(12121708)		
449379.63	3758889.89	0.22005c	(12121708)	449383.50
3758889.89	0.21195c	(12121708)		

449387.37	3758889.89	0.20440c (12121708)	449391.24
3758889.89	0.19734c (12121708)		
449395.11	3758889.89	0.19073c (12121708)	449398.98
3758889.89	0.18453c (12121708)		
449402.85	3758889.89	0.17870c (12121708)	449406.72
3758889.89	0.17321c (12121708)		
449410.59	3758889.89	0.16803c (12121708)	449414.46
3758889.89	0.16313c (12121708)		
449418.33	3758889.89	0.15849c (12121708)	449422.20
3758889.89	0.15409c (12121708)		
449426.07	3758889.89	0.14992c (12121708)	449429.94
3758889.89	0.14594c (12121708)		
449433.81	3758889.89	0.14215c (12121708)	449437.68
3758889.89	0.13854c (12121708)		
449441.55	3758889.89	0.13513c (12121708)	449445.42
3758889.89	0.13189c (12121708)		
449368.02	3758903.93	0.24893c (12121708)	449371.89
3758903.93	0.23866c (12121708)		
449375.76	3758903.93	0.22921c (12121708)	449379.63
3758903.93	0.22049c (12121708)		
449383.50	3758903.93	0.21242c (12121708)	449387.37
3758903.93	0.20489c (12121708)		
449391.24	3758903.93	0.19785c (12121708)	449395.11
3758903.93	0.19126c (12121708)		
449398.98	3758903.93	0.18507c (12121708)	449402.85
3758903.93	0.17925c (12121708)		
449406.72	3758903.93	0.17376c (12121708)	449410.59
3758903.93	0.16857c (12121708)		
449414.46	3758903.93	0.16366c (12121708)	449418.33
3758903.93	0.15900c (12121708)		
449422.20	3758903.93	0.15458c (12121708)	449426.07
3758903.93	0.15038c (12121708)		
449429.94	3758903.93	0.14639c (12121708)	449433.81
3758903.93	0.14258c (12121708)		
449437.68	3758903.93	0.13895c (12121708)	449441.55
3758903.93	0.13552c (12121708)		
449445.42	3758903.93	0.13227c (12121708)	449368.02
3758917.97	0.24920c (12121708)		
449371.89	3758917.97	0.23892c (12121708)	449375.76
3758917.97	0.22947c (12121708)		
449379.63	3758917.97	0.22075c (12121708)	449383.50
3758917.97	0.21272c (12121708)		
449387.37	3758917.97	0.20522c (12121708)	449391.24
3758917.97	0.19823c (12121708)		
449395.11	3758917.97	0.19167c (12121708)	449398.98
3758917.97	0.18552c (12121708)		

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*** AERMET - VERSION 16216 ***
 *** 11:24:07

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0000183 , L0000184
 , L0000185 , L0000186 , L0000187 ,
 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192
 , L0000193 , L0000194 , L0000195 ,
 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200
 , L0000201 , L0000202 , L0000203 ,
 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208
 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449402.85	3758917.97	0.17972c (12121708)	449406.72
3758917.97	0.17426c (12121708)		
449410.59	3758917.97	0.16908c (12121708)	449414.46
3758917.97	0.16416c (12121708)		
449418.33	3758917.97	0.15950c (12121708)	449422.20
3758917.97	0.15506c (12121708)		
449426.07	3758917.97	0.15084c (12121708)	449429.94
3758917.97	0.14681c (12121708)		
449433.81	3758917.97	0.14298c (12121708)	449437.68
3758917.97	0.13932c (12121708)		
449441.55	3758917.97	0.13587c (12121708)	449445.42
3758917.97	0.13261c (12121708)		
449368.02	3758932.01	0.24942c (12121708)	449371.89
3758932.01	0.23912c (12121708)		
449375.76	3758932.01	0.22965c (12121708)	449379.63
3758932.01	0.22092c (12121708)		
449383.50	3758932.01	0.21290c (12121708)	449387.37
3758932.01	0.20545c (12121708)		
449391.24	3758932.01	0.19847c (12121708)	449395.11
3758932.01	0.19194c (12121708)		
449398.98	3758932.01	0.18580c (12121708)	449402.85
3758932.01	0.18003c (12121708)		
449406.72	3758932.01	0.17458c (12121708)	449410.59
3758932.01	0.16943c (12121708)		
449414.46	3758932.01	0.16453c (12121708)	449418.33

3758932.01	0.15986c (12121708)	
449422.20	3758932.01	0.15543c (12121708) 449426.07
3758932.01	0.15120c (12121708)	
449429.94	3758932.01	0.14717c (12121708) 449433.81
3758932.01	0.14332c (12121708)	
449437.68	3758932.01	0.13965c (12121708) 449441.55
3758932.01	0.13618c (12121708)	
449445.42	3758932.01	0.13291c (12121708) 449368.02
3758946.05	0.24965c (12121708)	
449371.89	3758946.05	0.23933c (12121708) 449375.76
3758946.05	0.22985c (12121708)	
449379.63	3758946.05	0.22109c (12121708) 449383.50
3758946.05	0.21312c (12121708)	
449387.37	3758946.05	0.20565c (12121708) 449391.24
3758946.05	0.19870c (12121708)	
449395.11	3758946.05	0.19216c (12121708) 449398.98
3758946.05	0.18604c (12121708)	
449402.85	3758946.05	0.18026c (12121708) 449406.72
3758946.05	0.17482c (12121708)	
449410.59	3758946.05	0.16967c (12121708) 449414.46
3758946.05	0.16479c (12121708)	
449418.33	3758946.05	0.16014c (12121708) 449422.20
3758946.05	0.15570c (12121708)	
449426.07	3758946.05	0.15148c (12121708) 449429.94
3758946.05	0.14746c (12121708)	
449433.81	3758946.05	0.14361c (12121708) 449437.68
3758946.05	0.13993c (12121708)	
449441.55	3758946.05	0.13645c (12121708) 449445.42
3758946.05	0.13315c (12121708)	
449368.02	3758960.09	0.24986c (12121708) 449371.89
3758960.09	0.23953c (12121708)	
449375.76	3758960.09	0.23003c (12121708) 449379.63
3758960.09	0.22126c (12121708)	
449383.50	3758960.09	0.21330c (12121708) 449387.37
3758960.09	0.20583c (12121708)	
449391.24	3758960.09	0.19888c (12121708) 449395.11
3758960.09	0.19234c (12121708)	
449398.98	3758960.09	0.18622c (12121708) 449402.85
3758960.09	0.18045c (12121708)	
449406.72	3758960.09	0.17501c (12121708) 449410.59
3758960.09	0.16987c (12121708)	
449414.46	3758960.09	0.16499c (12121708) 449418.33
3758960.09	0.16036c (12121708)	
449422.20	3758960.09	0.15593c (12121708) 449426.07
3758960.09	0.15172c (12121708)	
449429.94	3758960.09	0.14770c (12121708) 449433.81
3758960.09	0.14386c (12121708)	
449437.68	3758960.09	0.14018c (12121708) 449441.55
3758960.09	0.13669c (12121708)	
449445.42	3758960.09	0.13336c (12121708) 449368.02

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3758974.13      0.25030c (12121708)
      449371.89   3758974.13      0.23994c (12121708)      449375.76
3758974.13      0.23041c (12121708)
      449379.63   3758974.13      0.22162c (12121708)      449383.50
3758974.13      0.21359c (12121708)
^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
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*** AERMET - VERSION 16216 ***      ***
***      11:24:07

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
      INCLUDING SOURCE(S):      L0000183      , L0000184
, L0000185      , L0000186      , L0000187      ,
      L0000188      , L0000189      , L0000190      , L0000191      , L0000192
, L0000193      , L0000194      , L0000195      ,
      L0000196      , L0000197      , L0000198      , L0000199      , L0000200
, L0000201      , L0000202      , L0000203      ,
      L0000204      , L0000205      , L0000206      , L0000207      , L0000208
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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
449387.37	3758974.13	0.20608c	(12121708)	449391.24
3758974.13	0.19907c	(12121708)		
449395.11	3758974.13	0.19253c	(12121708)	449398.98
3758974.13	0.18638c	(12121708)		
449402.85	3758974.13	0.18061c	(12121708)	449406.72
3758974.13	0.17516c	(12121708)		
449410.59	3758974.13	0.17001c	(12121708)	449414.46
3758974.13	0.16516c	(12121708)		
449418.33	3758974.13	0.16053c	(12121708)	449422.20
3758974.13	0.15612c	(12121708)		
449426.07	3758974.13	0.15191c	(12121708)	449429.94
3758974.13	0.14790c	(12121708)		
449433.81	3758974.13	0.14406c	(12121708)	449437.68
3758974.13	0.14039c	(12121708)		
449441.55	3758974.13	0.13688c	(12121708)	449445.42
3758974.13	0.13354c	(12121708)		

449368.02	3758988.17	0.25070c (12121708)	449371.89
3758988.17	0.24030c (12121708)		
449375.76	3758988.17	0.23073c (12121708)	449379.63
3758988.17	0.22191c (12121708)		
449383.50	3758988.17	0.21384c (12121708)	449387.37
3758988.17	0.20629c (12121708)		
449391.24	3758988.17	0.19925c (12121708)	449395.11
3758988.17	0.19267c (12121708)		
449398.98	3758988.17	0.18652c (12121708)	449402.85
3758988.17	0.18072c (12121708)		
449406.72	3758988.17	0.17526c (12121708)	449410.59
3758988.17	0.17013c (12121708)		
449414.46	3758988.17	0.16527c (12121708)	449418.33
3758988.17	0.16066c (12121708)		
449422.20	3758988.17	0.15626c (12121708)	449426.07
3758988.17	0.15206c (12121708)		
449429.94	3758988.17	0.14805c (12121708)	449433.81
3758988.17	0.14422c (12121708)		
449437.68	3758988.17	0.14055c (12121708)	449441.55
3758988.17	0.13704c (12121708)		
449445.42	3758988.17	0.13368c (12121708)	449368.02
3759002.21	0.25074c (12121708)		
449371.89	3759002.21	0.24033c (12121708)	449375.76
3759002.21	0.23075c (12121708)		
449379.63	3759002.21	0.22193c (12121708)	449383.50
3759002.21	0.21390c (12121708)		
449387.37	3759002.21	0.20636c (12121708)	449391.24
3759002.21	0.19937c (12121708)		
449395.11	3759002.21	0.19280c (12121708)	449398.98
3759002.21	0.18663c (12121708)		
449402.85	3759002.21	0.18085c (12121708)	449406.72
3759002.21	0.17539c (12121708)		
449410.59	3759002.21	0.17025c (12121708)	449414.46
3759002.21	0.16537c (12121708)		
449418.33	3759002.21	0.16075c (12121708)	449422.20
3759002.21	0.15634c (12121708)		
449426.07	3759002.21	0.15215c (12121708)	449429.94
3759002.21	0.14815c (12121708)		
449433.81	3759002.21	0.14433c (12121708)	449437.68
3759002.21	0.14068c (12121708)		
449441.55	3759002.21	0.13718c (12121708)	449445.42
3759002.21	0.13382c (12121708)		
449368.02	3759016.25	0.25077c (12121708)	449371.89
3759016.25	0.24035c (12121708)		
449375.76	3759016.25	0.23078c (12121708)	449379.63
3759016.25	0.22194c (12121708)		
449383.50	3759016.25	0.21428 (14121224)	449387.37
3759016.25	0.20644c (12121708)		
449391.24	3759016.25	0.19943c (12121708)	449395.11
3759016.25	0.19290c (12121708)		

449398.98	3759016.25	0.18673c (12121708)	449402.85
3759016.25	0.18094c (12121708)		
449406.72	3759016.25	0.17549c (12121708)	449410.59
3759016.25	0.17032c (12121708)		
449414.46	3759016.25	0.16544c (12121708)	449418.33
3759016.25	0.16080c (12121708)		
449422.20	3759016.25	0.15640c (12121708)	449426.07
3759016.25	0.15220c (12121708)		
449429.94	3759016.25	0.14821c (12121708)	449433.81
3759016.25	0.14440c (12121708)		
449437.68	3759016.25	0.14076c (12121708)	449441.55
3759016.25	0.13727c (12121708)		
449445.42	3759016.25	0.13391c (12121708)	449368.02
3759030.29	0.25143c (12121708)		

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14172
HRA\TOGGAS\TOGGAS.ISC                ***      11/11/21
*** AERMET - VERSION 16216 ***      ***
***                                     ***      11:24:07

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
                                INCLUDING SOURCE(S):  L0000183 , L0000184
, L0000185 , L0000186 , L0000187 ,
, L0000188 , L0000189 , L0000190 , L0000191 , L0000192
, L0000193 , L0000194 , L0000195 ,
, L0000196 , L0000197 , L0000198 , L0000199 , L0000200
, L0000201 , L0000202 , L0000203 ,
, L0000204 , L0000205 , L0000206 , L0000207 , L0000208
,

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*** DISCRETE CARTESIAN RECEPTOR POINTS

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

**

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
449371.89	3759030.29	0.24095c (12121708)	449375.76
3759030.29	0.23131c (12121708)		
449379.63	3759030.29	0.22243c (12121708)	449383.50
3759030.29	0.21434c (12121708)		
449387.37	3759030.29	0.20678c (12121708)	449391.24
3759030.29	0.19973c (12121708)		
449395.11	3759030.29	0.19312c (12121708)	449398.98

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

ALL	1ST HIGHEST VALUE IS	0.12140 AT (	449368.02, 3759044.33,
198.07,	198.07, 0.00) DC		
	2ND HIGHEST VALUE IS	0.12131 AT (	449368.02, 3758889.89,
195.17,	195.17, 0.00) DC		
	3RD HIGHEST VALUE IS	0.12126 AT (	449368.02, 3758903.93,
195.79,	195.79, 0.00) DC		
	4TH HIGHEST VALUE IS	0.12124 AT (	449368.02, 3758875.85,
194.70,	194.70, 0.00) DC		
	5TH HIGHEST VALUE IS	0.12103 AT (	449368.02, 3758861.81,
194.14,	194.14, 0.00) DC		
	6TH HIGHEST VALUE IS	0.12059 AT (	449368.02, 3758917.97,
196.55,	196.55, 0.00) DC		
	7TH HIGHEST VALUE IS	0.12036 AT (	449368.02, 3758847.77,
193.38,	193.38, 0.00) DC		
	8TH HIGHEST VALUE IS	0.12009 AT (	449368.02, 3759030.29,
198.53,	198.53, 0.00) DC		
	9TH HIGHEST VALUE IS	0.12001 AT (	449368.02, 3758932.01,
197.19,	197.19, 0.00) DC		
	10TH HIGHEST VALUE IS	0.11987 AT (	449368.02, 3758988.17,
198.06,	198.06, 0.00) DC		

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

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

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

**

DATE

NETWORK

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	GRID-ID	(YYMMDDHH)	RECEPTOR
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ALL HIGH 1ST HIGH VALUE IS 0.30723 ON 13020301: AT (449368.02,
3759016.25, 199.00, 199.00, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 8-HR

RESULTS ***

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

**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
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ALL HIGH 1ST HIGH VALUE IS 0.25198c ON 12121708: AT (449368.02,
3759044.33, 198.07, 198.07, 0.00) DC

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

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14172
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*** 11:24:07

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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 1638 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified (1.37 Percent)

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

***** WARNING MESSAGES *****
ME W186 130 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
 0.50
ME W187 130 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

APPENDIX 5.1:
RISK CALCULATION WORKSHEETS

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Table A1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
30 Year Exposure Scenario / Maximum Residential Receptor

Source (a)	Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk			Noncarcinogenic Hazards / Toxicological Endpoints*									
	(ug/m3) (b)	(mg/m3) (c)			URF (ug/m3) (f)	CPF (mg/kg/day) (g)	RISK (h)	REL (ug/m3) (i)	RIID (mg/kg/day) (j)	RESP (k)	CNS/PNS (l)	CV/BL (m)	IMMUN (n)	KIDN (o)	GI/LV (p)	REPRO (q)	EYES (r)
	Freeway	0.12140			1.2E-04	4.67E-01	Benzene	2.9E-05	1.0E-01	6.8E-07	3.0E+00	8.6E-04					
			3.28E-01	Formaldehyde	6.0E-06	2.1E-02	9.8E-08	9.0E+00	2.6E-03	4.2E-03							
			1.06E-01	1,3-Butadiene	1.7E-04	6.0E-01	9.0E-07	2.0E+00	5.7E-04							6.2E-03	
			7.40E-02	Acetaldehyde	2.7E-06	1.0E-02	1.1E-08	1.4E+02	4.0E-02	6.2E-05							
			2.50E-02	Acrolein				3.5E-01	1.0E-04	8.3E-03							
	0.02368	2.4E-05	1.00E+00	Diesel Particulates	3.0E-04	1.1E+00	2.9E-06	5.0E+00	1.4E-03	4.5E-03							
Total							4.60E-06			1.7E-02	0.0E+00	1.8E-02	0.0E+00	0.0E+00	0.0E+00	6.2E-03	0.0E+00

* Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g., teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 350
exposure duration (years) 30
inhalation rate (m3/day) 20
average body weight (kg) 70
averaging time_(cancer) (days) 25550
averaging time_(noncancer) (days) 10950

Table A2
Quantification of Noncarcinogenic Acute Hazards
1-Hour Exposure Scenario / Maximum Exposed Receptor

Source (a)	Concentration (ug/m3) (b)	Weight Fraction (c)	Contaminant (d)	Noncarcinogenic Hazards / Toxicological Endpoints*									
				REL (ug/m3) (e)	RESP (f)	CNS/PNS (g)	CV/BL (h)	IMMUN (i)	KIDN (j)	GI/LV (k)	REPRO (l)	EYES (m)	
Freeway TOG	0.30723	4.67E-01	Benzene	2.7E+01			5.3E-03	5.3E-03			5.3E-03		
		3.28E-01	Formaldehyde	5.5E+01							4.9E-05	1.8E-03	
		1.06E-01	1,3-Butadiene	6.6E+02									
		7.40E-02	Acetaldehyde	4.7E+02	4.8E-05							4.8E-05	
		2.50E-02	Acrolein	2.5E+00	3.1E-03							3.1E-03	
Freeway Diesel/TOG	0.04939	8.20E-02	Benzene	2.7E+01			1.5E-04	1.5E-04			1.5E-04		
		6.07E-01	Formaldehyde	5.5E+01								5.5E-04	
		8.00E-03	1,3-Butadiene	6.6E+02							6.0E-07		
		3.03E-01	Acetaldehyde	4.7E+02	3.2E-05							3.2E-05	
Total					3.2E-03	0.0E+00	5.5E-03	5.5E-03	0.0E+00	0.0E+00	5.5E-03	5.5E-03	

* 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

Table A3
Quantification of Noncarcinogenic Acute Hazards
8-Hour Exposure Scenario / Maximum Exposed Receptor

Source (a)	Concentration (ug/m3) (b)	Weight Fraction (c)	Contaminant (d)	Noncarcinogenic Hazards / Toxicological Endpoints*									
				REL (ug/m3) (e)	RESP (f)	CNS/PNS (g)	CV/BL (h)	IMMUN (i)	KIDN (j)	GI/LV (k)	REPRO (l)	EYES (m)	
Freeway TOG	0.25198	3.28E-01	Formaldehyde	9.0E+00	9.2E-03								
			1,3-Butadiene	9.0E+00						3.0E-03			
			Acetaldehyde	3.0E+02	6.2E-05								
Freeway Diesel/TOG	0.04051	2.50E-02	Acrolein	7.0E-01	9.0E-03								
			Formaldehyde	9.0E+00	2.7E-03								
			1,3-Butadiene	9.0E+00						3.6E-05			
Freeway Diesel/TOG	0.04051	3.03E-01	Acetaldehyde	3.0E+02	4.1E-05								
			Formaldehyde	9.0E+00	2.7E-03								
			1,3-Butadiene	9.0E+00						3.6E-05			
Total					2.1E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-03	0.0E+00

* Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g., teratogenic and developmental effects)
EYES Eye irritation and/or other effects