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# **Amendment No. 2 to Reclamation Plan 2006-01**

**DIESEL PARTICULATE MATTER HEALTH RISK ASSESSMENT  
CITY OF LAKE ELSINORE**

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09600-03 HRA Report

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## **LIST OF ABBREVIATED TERMS**

|         |                                                   |
|---------|---------------------------------------------------|
| (1)     | Reference                                         |
| µg      | Microgram                                         |
| AERMOD  | Atmospheric Dispersion Modeling System            |
| APS     | Auxiliary Power System                            |
| AQMD    | Air Quality Management District                   |
| ARB     | Air Resources Board                               |
| CEQA    | California Environmental Quality Act              |
| CPF     | Cancer Potency Factor                             |
| DPM     | Diesel Particulate Matter                         |
| EMFAC   | Emission Factor Model                             |
| EPA     | Environmental Protection Agency                   |
| HHD     | Heavy Heavy-Duty                                  |
| HI      | Hazard Index                                      |
| HRA     | Health Risk Assessment                            |
| LHD     | Light Heavy-Duty                                  |
| MATES   | Multiple Air Toxics Exposure Study                |
| MEIR    | Maximally Exposed Individual Receptor             |
| MEISC   | Maximally Exposed Individual School Child         |
| MEIW    | Maximally Exposed Individual Worker               |
| MHD     | Medium Heavy-Duty                                 |
| NAD     | North American Datum                              |
| OEHHA   | Office of Environmental Health Hazard             |
| PCE     | Passenger Car Equivalent                          |
| PM10    | Particulate Matter 10 microns in diameter or less |
| Project | Amendment No. 2 to Reclamation Plan 2006-01       |
| REL     | Reference Exposure Level                          |
| RM      | Recommended Measures                              |
| SCAQMD  | South Coast Air Quality Management District       |
| SRA     | Source Receptor Area                              |
| TAC     | Toxic Air Contaminant                             |
| TIA     | Traffic Impact Analysis                           |
| URF     | Unit Risk Factor                                  |
| UTM     | Universal Transverse Mercator                     |
| VMT     | Vehicle Miles Traveled                            |

## EXECUTIVE SUMMARY

### SUMMARY OF FINDINGS/CONCLUSIONS

The results of the health risk assessment of lifetime cancer risk from Project-generated DPM emissions are provided at Table ES-1 below for the Project.

#### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is located approximately 320 feet southeast of to the Project's mining impact area. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 0.96 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0006, which would not exceed the applicable threshold of 1.0. Exhibit 2-B (presented later) illustrates the nearest modeled residential receptors and the MEIR.

#### Worker Exposure Scenario:

The worker land use with the greatest potential exposure to Project DPM source emissions is located at Temescal Canyon High School at 28755 El Toro Road, Lake Elsinore, CA 92532 which is approximately 1,000 feet south of the Project's mining impact area. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact at this location is 0.13 in one million which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0004, which would not exceed the applicable threshold of 1.0. Exhibit 2-C (presented later) illustrates the nearest modeled worker receptors and the MEIW.

#### School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is located at Temescal Canyon High School at 28755 El Toro Road, Lake Elsinore, CA 92532 which is approximately 1,000 feet south of the Project's mining impact area. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact at this location is 0.10 in one million which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0005, which would not exceed the applicable threshold of 1.0. Exhibit 2-C (presented later) illustrates the nearest modeled school receptors and the MEISC.

The results of the analysis also indicate that the project will not result in a significant cumulative health risk. Section 2.7 contains a detailed cumulative analysis for the Project.

**TABLE ES-1: SUMMARY OF CANCER RISKS ATTRIBUTABLE TO THE PROJECT (WITHOUT MITIGATION)**

| Time Period                        | Location                           | Maximum Lifetime Cancer Risk<br>(Risk per Million) | Significance Threshold<br>(Risk per Million) | Exceeds Significance Threshold |
|------------------------------------|------------------------------------|----------------------------------------------------|----------------------------------------------|--------------------------------|
| 70 Year Exposure<br>(2016 to 2085) | Maximum Exposed Sensitive Receptor | 0.96                                               | 10                                           | NO                             |
| 40 Year Exposure<br>(2016 to 2055) | Maximum Exposed Worker Receptor    | 0.13                                               | 10                                           | NO                             |
| 9 Year Exposure<br>(2016 to 2024)  | Maximum Exposed School Child       | 0.10                                               | 10                                           | NO                             |

# 1 INTRODUCTION

This report presents the results of the health risk assessment (HRA) for the proposed Amendment No. 2 to Reclamation Plan 2006-01 (referred to as "Project") located north and south of Nichols Road and east of the I-15 Freeway in the City of Lake Elsinore as shown on Exhibit 1-A. The purpose of this HRA is to evaluate Project-related impacts to sensitive receptors (residential, schools) and adjacent workers as a result of toxic air contaminants (TACs) resulting primarily from heavy-duty diesel trucks accessing the site.

The South Coast Air Quality Management District (SCAQMD) typically issues a comment letter on the Notice of Preparation of a CEQA Document. Per the SCAQMD's typical comment letter, if a proposed Project is expected to generate/attract diesel trucks, which emit diesel particulate matter (DPM) and other TACs, preparation of a HRA is necessary. This document serves to meet the SCAQMD's request for preparation of a HRA. The mobile source HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1). Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to DPM exposure. This threshold serves to determine whether or not a given project has a cumulatively considerable increase that would result in a cumulative impact.

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

## 1.1 PROJECT OVERVIEW

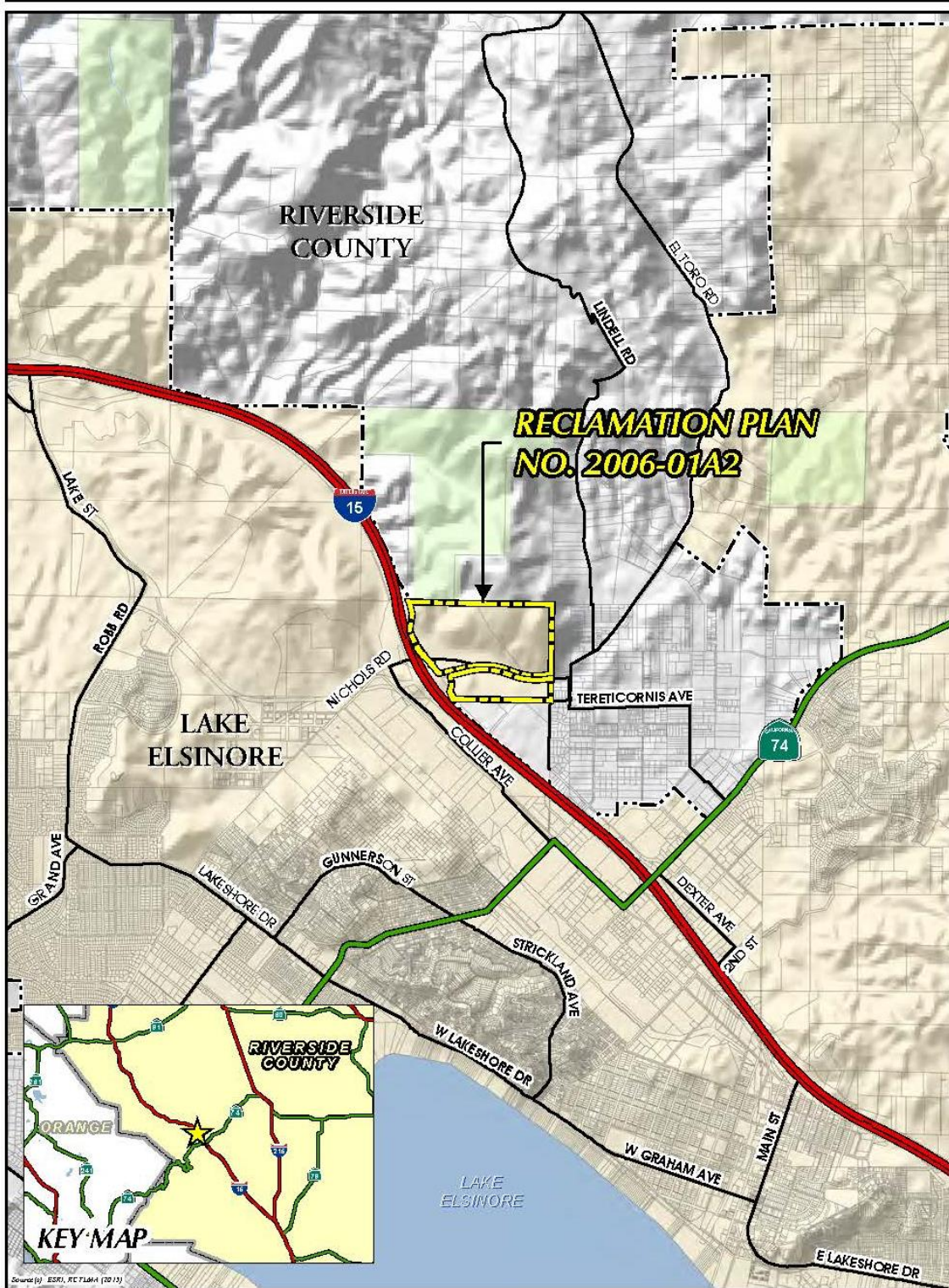
The historic tonnage average is 556,348 tons per year (TPY). Although proposed RP 2006-01A2 would reduce the allowed maximum total annual tonnage material from 4,000,000 tpy to 856,560 tpy, historical data recorded by the mine operator indicates that the mine produced an average of approximately 556,348 tpy between 2007 and 2014 (herein, "historic baseline").

The Project is proposing a permit that would allow up to 856,560 TPY, which is a reduction to the originally permitted 4,000,000 TPY for the site. However, because the Project's proposed annual tonnage cap (856,560 TPY) is greater than the historic baseline average (556,348 TPY), the Project would result in a net increase of 300,212 TPY as compared to the historic baseline, representing an increase of 35.0%. Impact calculations herein that rely on annual tonnage account the net increase over the historic baseline (e.g., 300,212 TPY). The Project Applicant also estimates that a reasonable high-end estimate of daily tonnage at the site is approximately 5,000 tons per day (TPD). Because the Project represents 35.0% of the total annual tonnage cap, it is also reasonable to assume that approximately 1,752 TPD (35.0% of 5,000 TPD) would be attributable to the Project, with the remaining 3,482 TPD attributable to the proposed Project. In addition, the

Project also proposes to modify the existing mining operations from 7:00 AM-7:00 PM to a 24-hour operation. For purposes of this health risk assessment it is anticipated that the Project will be fully operational by Year 2016 (i.e., opening year). As indicated on Exhibit 1-1, access to the Project site is currently and will continue to be provided to Nichols Road via 2 existing driveways. Regional access to the Project site is provided via the I-15 Freeway at Nichols Road interchange.

Under existing conditions, mining, aggregate export, and asphalt batch plant activities on-site are limited to between the hours of 7:00 AM and 12:00 AM (Monday through Friday, excluding Federal Holidays) and between 7:00 AM and 7:00 PM (Saturdays only), while the export of asphalt materials is allowed to occur 24 hours per day. Under the proposed Project, the time limits would be extended to between 4:00 am and 12:00 am (Monday through Saturday, excluding Federal Holidays) for mining equipment operation and 24 hours per day (Monday through Saturdays, excluding Federal Holidays) for aggregate export activities. The extended hours of aggregate export activities are intended to reduce truck trips during daytime and peak traffic hours.

EXHIBIT 1-A: LOCATION MAP



Source: T&B Planning

## 2 BACKGROUND

### 2.1 REGULATORY SETTING

CARB estimates that the average Californian is exposed to 1.2-1.8  $\mu\text{g}/\text{m}^3$  of DPM, this exposure results in an average cancer risk of 360-540 in one million for the average Californian exposed to DPM (2).

As noted above, this HRA is based on SCAQMD guidelines to produce conservative estimates of risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

The CARB-adopted diesel exhaust URF of 300 in one million per  $\mu\text{g}/\text{m}^3$  is based upon Scientific Review Panel's review of the report *Proposed Identification of Diesel Exhaust as a Toxic Air Contaminant* prepared by CARB. CARB's basis for determining diesel exhaust a toxic air contaminant is based on epidemiological studies as outlined in the Scientific Review Panel's assessment. The risk estimates assume sensitive receptors will be subject to DPM for 24 hours a day, 350 days a year. As a conservative measure, the SCAQMD does not recognize indoor adjustments for residents. However, the typical person spends the majority of their time indoors versus remaining outdoors for 24 hours a day, 350 days a year.<sup>1</sup>

The exposure to DPM is assumed to be constant for the given period analyzed (i.e., 70 years). It should be noted however that emissions from DPM are expected to substantially decrease in the future with the implementation of standard regulatory requirements and technological advancement to reduce DPM.

The emissions derived assume that every truck accessing the project site will idle for 15 minutes, this is an overestimation of actual idling times and thus conservative.<sup>2</sup>

### 2.2 EMISSIONS ESTIMATION

Vehicle DPM emissions were estimated using emission factors for particulate matter less than 10 $\mu\text{m}$  in diameter ( $\text{PM}_{10}$ ) generated with the 2014 version of the Emission FACTor model (EMFAC) developed by the ARB. EMFAC 2014 is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in

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<sup>1</sup> In May, 1991 the California Air Resources Board (CARB) Research Division in association with the University of California, Berkeley published research findings entitled: *Activity Patterns of California Residents*. The findings of that study indicate that on average, adults and adolescents in California spent almost 15 hours per day inside their homes, and six hours in other indoor locations, for a total of 21 hours (87% of the day). About 2 hours per day were spent in transit, and just over 1 hour per day was spent in outdoor locations.

<sup>2</sup> Although the Project is required to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, phone call, with James Koizumi, May 6, 2009), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (3). The most recent version of this model, EMFAC 2014, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

The most important improvement in EMFAC 2014 is the integration of the new data and methods to estimate emissions from diesel trucks and buses. EMFAC 2014 uses the same diesel truck and bus vehicle populations, miles traveled and other emissions-related factors developed for the Truck and Bus Rule approved by the Air Resources Board in 2010. The model includes the emissions benefits of the truck and bus rule and the previously adopted rules for other on-road diesel equipment. Finally, the impacts of the recession on emissions that were quantified as part of the truck and bus rulemaking are included.

Several distinct emission processes are included in EMFAC 2014. Emission factors calculated using EMFAC 2014 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM<sub>10</sub> emission factors were generated by running EMFAC 2014 in EMFAC Mode for vehicles in the SCAQMD district within Riverside County. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

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

The average PM<sub>10</sub> emission factors for each type of vehicle were calculated based on the annual average emission factors from different model years for various exposure periods associated with assumptions for evaluating exposure to different receptor populations (e.g., sensitive, offsite worker and resident, respectively):

1. 70-year exposure: 2016 through 2085 (Residential Exposure Scenario)
2. 40-year exposure: 2016 through 2055 (Worker Exposure Scenario)
3. 9-yr exposure: 2016 through 2024 (School Child Exposure Scenario)

Calculated emission factors for each of these scenarios are shown in Table 2-1. The emission factors for model years beyond 2050 were assumed to be the same as emission factors in 2050 due to the fact that EMFAC 2014 only contains emission factors for the model year from 2000 through 2050. This is a conservative measure as it assumes no fleet turnover or cleaner technology with lower emissions could be incorporated after 2050.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM<sub>10</sub> emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (3):

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

Where:

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

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

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

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM<sub>10</sub> emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM<sub>10</sub> emission factor (g/idle-hr) from EMFAC and the total truck trip over the total idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (3):

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

Where:

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

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

**TABLE 2-1: WEIGHTED AVERAGE DPM EMISSIONS FACTORS**

| <b>2016-2085 – 70 Year Residential Exposure Scenario</b> |                     |
|----------------------------------------------------------|---------------------|
| Speed                                                    | Weighted Average    |
| 0 (idling)                                               | 0.01660 (g/idle-hr) |
| 5                                                        | 0.02079 (g/s)       |
| 25                                                       | 0.01029 (g/s)       |
| <b>2016-2055 – 40 Year Worker Exposure Scenario</b>      |                     |
| Speed                                                    | Weighted Average    |
| 0 (idling)                                               | 0.02786(g/idle-hr)  |
| 5                                                        | 0.03037 (g/s)       |
| 25                                                       | 0.01424 (g/s)       |
| <b>2016-2024 – 9 Year School Child Exposure Scenario</b> |                     |
| Speed                                                    | Weighted Average    |
| 0 (idling)                                               | 0.11578 (g/idle-hr) |
| 5                                                        | 0.10649 (g/s)       |
| 25                                                       | 0.04558 (g/s)       |

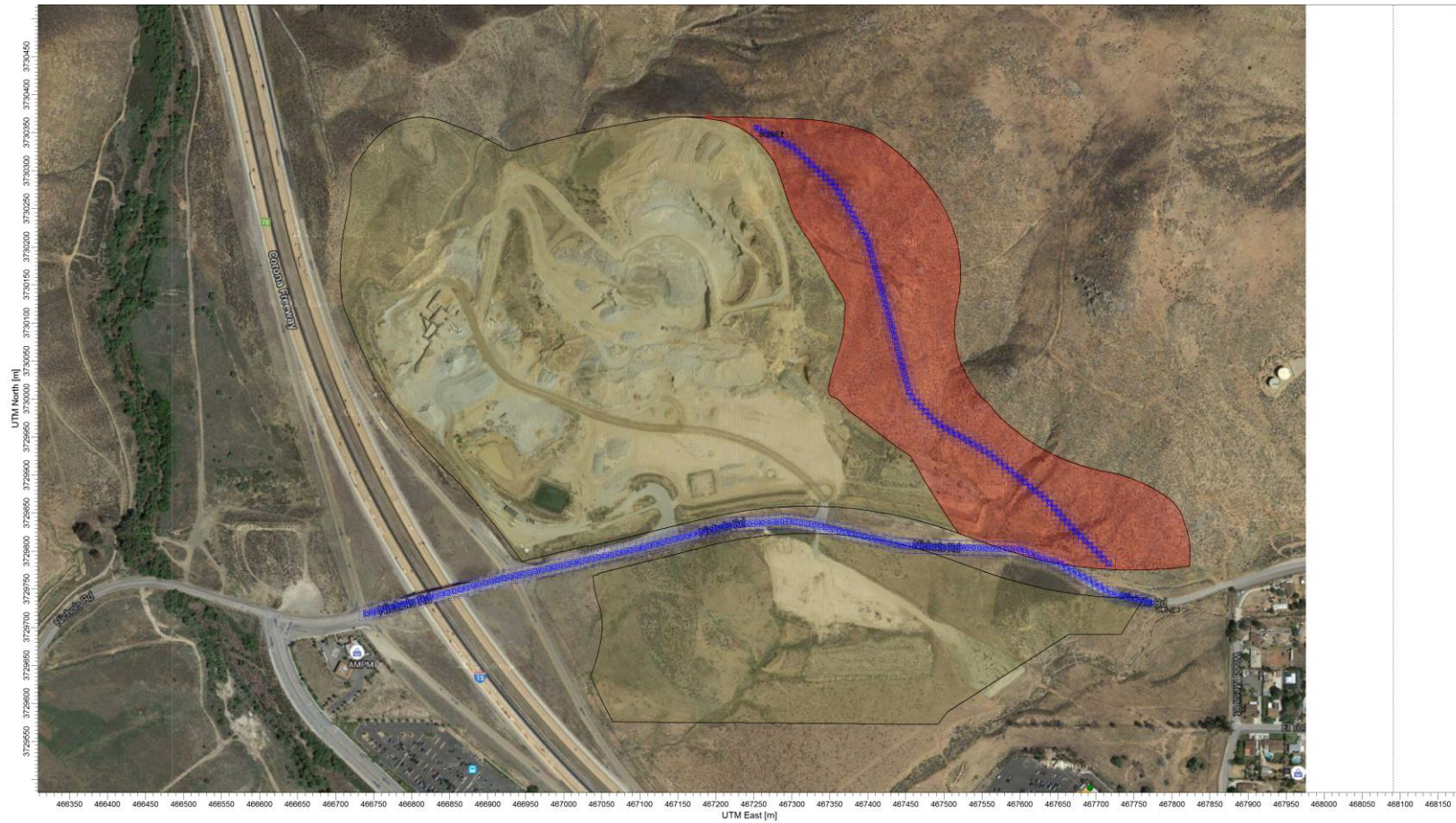
Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report, but are included in Appendix 5.1. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway. On-site idling at the Project was modeled as point sources. The modeled emission sources are illustrated on Exhibit 2-A.

On-site truck idling was estimated to occur as trucks enter and travel through the facility. Although the Project is required to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (4), as a conservative measure.

#### **OPERATIONAL EQUIPMENT:**

DPM emissions will also be generated by operational equipment as discussed in the project's Air Quality Impact Analysis (AQIA). As summarized in the AQIA, mining activities during the baseline period result in approximately 20,316 horsepower hours per day. However, during most of the baseline operating period, the Mine was under different ownership, and the equipment utilized during that period is not reflective of the equipment that has been utilized on-site since 2014. At the time the Project's Notice of Preparation (NOP) was distributed for public review in July 2015, existing mining operations on-site were estimated to be approximately 25,158 horsepower hours per day (hh/d), representing an approximate 35% increase as compared to the horsepower hours per day that were associated with mining operations under previous ownership. Although the Project would not increase the amount of hh/d as compared to the existing operational conditions that existed on-site at the time the Project's NOP was distributed for public review, in

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



an effort to be conservative, the analysis herein compares the Project's hh/d to the hh/d that were in use under previous ownership. Thus, for purposes of analysis herein, it is assumed that equipment used under the proposed Project would require approximately 25,158 horsepower hours per day, reflecting an approximate 30.5% increase in horsepower as compared to the baseline condition.

### 2.3 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1). SCAQMD recommends using the Environmental Protection Agency's (U.S. EPA's) AERMOD model. For purposes of this analysis, the model was used to calculate annual average particulate concentrations associated with site operations.

SCAQMD required model parameters are presented in Table 2-2 (5). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Lake Elsinore monitoring station (SRA 25) located approximately 3 miles southeast of the Project site was used to represent local weather conditions and prevailing winds (6).

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

|                                      |                               |
|--------------------------------------|-------------------------------|
| Dispersion Coefficient (Urban/Rural) | Urban                         |
| Terrain (Flat/Complex)               | Elevated (Regulatory Default) |
| Averaging Time                       | 1 year                        |
| Receptor Height                      | 0 meters (Regulatory Default) |
| Meteorological Station Data          | Lake Elsinore (2008-2012)     |

Universal Transverse Mercator (UTM) coordinates for North American Datum (NAD) 83 were used to locate the project boundaries, each volume source location, and receptor locations in the project vicinity. The AERMOD dispersion model summary output files for the proposed facility are presented in Appendix 5.1.

Modeled sensitive receptors were placed at discrete residential and non-residential locations for the applicable residential and non-residential scenarios as illustrated on Exhibits 2-B and 2-C. Additionally, based on recommendations from SCAMD staff, a receptor grid with 100 meter spacing was placed at residential, worker, and school locations in order to ensure that the maximum impacts are properly analyzed.

Discrete variants for body weight and inhalation 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 (7). Table 2-3 summarizes the OEHHA-Recommended Exposure Parameters for Residents, Offsite Worker, and School Children. Appendix 5.1 includes the detailed emissions and risk calculation outputs.

**TABLE 2-3: OEHHA RECOMMENDED EXPOSURE PARAMETERS**

| Exposure Parameter | Units               | Residential | Worker | School Child <sup>a</sup> |
|--------------------|---------------------|-------------|--------|---------------------------|
| Exposure Frequency | days/year           | 350         | 245    | 180                       |
| Exposure Duration  | years               | 70          | 40     | 9                         |
| Inhalation Rate    | m <sup>3</sup> /day | 21.14       | 10.43  | 40.67                     |
| Body Weight        | kilograms           | 70          | 70     | 18                        |
| Averaging Time     | days                | 25550       | 25550  | 25550                     |
| Exposure Time      | hours/day           | 24          | 12     | 10                        |

<sup>a</sup> To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME's are defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years. The 9 year exposure duration is also consistent with OEHHA Recommendations and consistent with the exposure duration utilized in school-based risk assessments for various schools within the Los Angeles County Unified School District (LAUSD) that have been accepted by the SCAQMD.

Universal Transverse Mercator (UTM) coordinates for North American Datum (NAD) 27 were used to locate the project boundaries, each volume source location, and receptor locations in the project vicinity. The AERMOD dispersion model summary output files for the proposed facility are presented in Appendix 5.1.

## 2.4 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 (1), for purposes of this analysis, ten (10) in one million is used as the cancer risk threshold for the proposed Project.

Health risks associated with exposure to carcinogenic compounds are defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. 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 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 URF utilized in this analysis was obtained from the California Environmental Protection Agency, Office of Environmental Health Hazard.

To effectively quantify dose, the procedure requires the incorporation of several discrete exposure variants. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day ( $\text{mg}/\text{kg}/\text{day}$ )<sup>-1</sup> to derive the cancer risk estimate. Therefore, to assess exposures associated with the proposed Project, 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 <sub>air</sub> | = | concentration of contaminant in air (mg/m <sup>3</sup> ) |
| EF               | = | exposure frequency (days/year)                           |
| ED               | = | exposure duration (years)                                |
| IR               | = | inhalation rate (m <sup>3</sup> /day)                    |
| BW               | = | body weight (kg)                                         |
| AT               | = | averaging time (days)                                    |

The URFs utilized in the assessment and corresponding cancer potency factors were obtained principally from OEHHHA guidance.

The risk estimates were thus calculated as follows:

$$CR_{DPM} = CDI \times CPF \text{ (includes URF)}$$

Where:

|                   |   |                                  |
|-------------------|---|----------------------------------|
| CR <sub>DPM</sub> | = | cancer risk from DPM exposure    |
| CDI               | = | chronic daily intake (mg/kg/day) |
| CPF               | = | cancer potency factor            |
| URF               | = | unit risk factor                 |

## 2.5 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL).

The REL for diesel particulates was obtained from OEHHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHHA as 5 µg/m<sup>3</sup> (OEHHHA Toxicity Criteria Database, <http://www.oehha.org/risk/chemicaldb/index.asp>).

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

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

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

Where:

|             |   |                                                                                                                   |
|-------------|---|-------------------------------------------------------------------------------------------------------------------|
| $HI_{DPM}$  | = | Hazard Index; an expression of the potential for non-cancer health effects.                                       |
| $C_{DPM}$   | = | Annual average DPM concentration ( $\mu\text{g}/\text{m}^3$ ).                                                    |
| $REL_{DPM}$ | = | Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated. |

## 2.6 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS<sup>3</sup>

Project-related DPM-source cancer and non-cancer risks for residential, worker, and school child exposure scenarios for the Project are considered herein and are summarized as follows. For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

Modeled sensitive receptors were placed at discrete residential and non-residential locations for the applicable residential and non-residential scenarios as illustrated on Exhibits 2-C, 2-D, and 2-E.

### Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is located approximately 320 feet southeast of to the Project's mining impact area. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 0.96 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0006, which would not exceed the applicable threshold of 1.0. Exhibit 2-B (presented later) illustrates the nearest modeled residential receptors and the MEIR.

### Worker Exposure Scenario:

It should be noted that SCAQMD guidance does not require assessment of the potential health risk to on-site workers; additionally assessment of health risk to on-site workers is not required by OEHHA HRA guidelines. As such, for purposes of this analysis, risk to on-site workers has not been evaluated.

Potential risk to on-site workers is not required to be addressed through the typical health risk assessment process employed by SCAQMD and OEHHA. Further, the California Air Pollution Control Officers Association (CAPCOA) in their 2009 report titled: Health Risk Assessments for Proposed Land Use Projects, indicates that on-site receptors should only be included in health risk assessments if they are persons not employed by the project and if they would remain on-site for long periods of time (e.g., a caretaker residence that would reside there for most of the day and could be there for 24 hours per day for an extended period of time). Persons not

<sup>3</sup> 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.

employed by the project would not remain on-site for any significant period. Therefore, a health risk assessment for on-site workers is not required or recommended.

The following 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), 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.

*“If a facility must also comply with RCRA/CERCLA HRA requirements, health effects to on-site workers may also need to be addressed. The DTSC’s Remedial Project Manager should be consulted on this issue. In some cases it may be appropriate to evaluate risks to on-site receptors. The district should be consulted about special cases for which evaluation of on-site receptors is appropriate, such as facilities frequented by the public or where people may reside (e.g., military facilities).”*

*“On-site workers are protected by CAL OSHA and do not have to be evaluated under the Hot Spots program, unless the worker also lives on the facility site, or property. Occasionally, facilities like prisons, military bases, and universities have worker housing within the facility. In these situations the evaluation of on-site cancer risks, and/or acute and chronic non-cancer hazard indices is appropriate under the Hot Spots program.”*

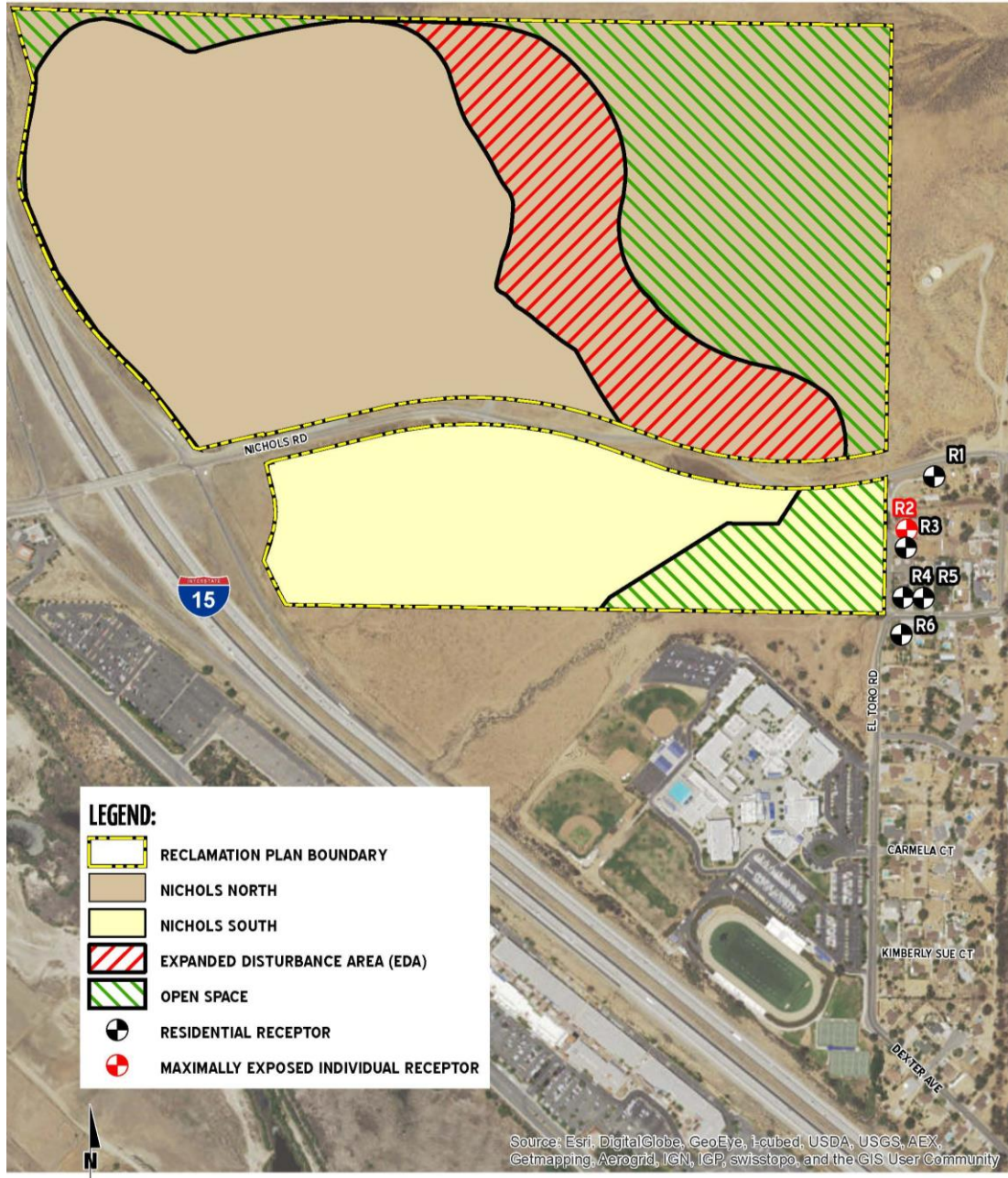
Since none of the previous scenarios apply to the project, risk to on-site workers has not been evaluated in this analysis.

The worker land use with the greatest potential exposure to Project DPM source emissions is located at Temescal Canyon High School at 28755 El Toro Road, Lake Elsinore, CA 92532 which is approximately 1,000 feet south of the Project’s mining impact area. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact at this location is 0.13 in one million which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0004, which would not exceed the applicable threshold of 1.0. Exhibit 2-C (presented later) illustrates the nearest modeled worker receptors and the MEIW.

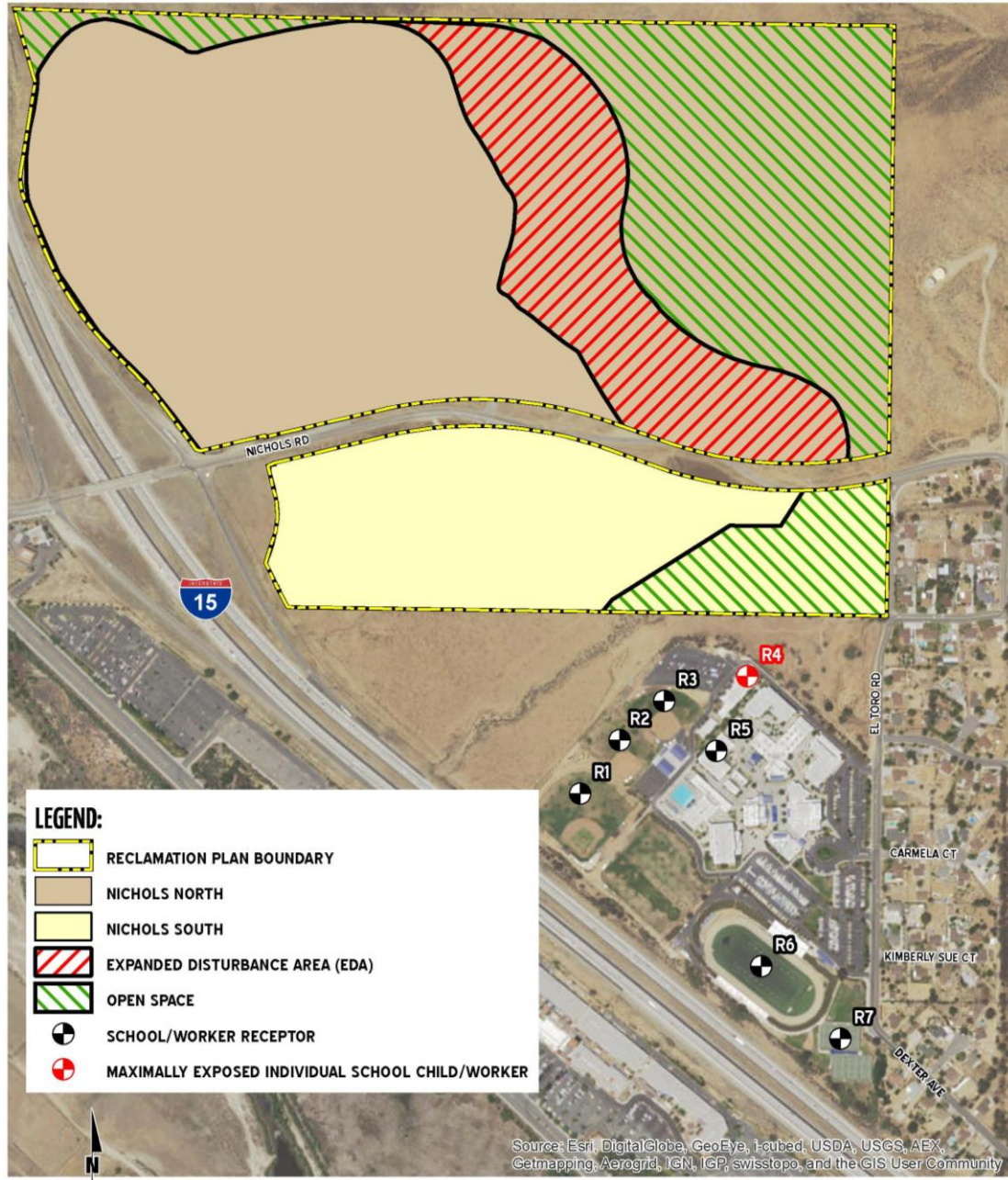
#### School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is located at Temescal Canyon High School at 28755 El Toro Road, Lake Elsinore, CA 92532 which is approximately 1,000 feet south of the Project’s mining impact area. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact at this location is 0.10 in one million which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0005, which would not exceed the applicable threshold of 1.0. Exhibit 2-C (presented later) illustrates the nearest modeled school receptors and the MEISC.

**EXHIBIT 2-B: NEAREST MODELED RESIDENTIAL RECEPTORS**



**EXHIBIT 2-C: NEAREST MODELED SCHOOL/WORKER RECEPTORS**



## 2.7 CEQA REQUIREMENTS FOR ADDRESSING CUMULATIVE IMPACTS

As a first step in determining a cumulative threshold for cumulative toxic air contaminant impacts, the applicable provisions of CEQA were reviewed. Excerpts from CEQA and the CEQA Guidelines regarding cumulative impacts are provided below.

In defining what may constitute a significant effect on the environment, CEQA 21083(b)(2) lists the following conditions for cumulative impacts:

*The possible effects of a project are individually limited but cumulatively considerable. As used in this paragraph, "cumulatively considerable" means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.*

CEQA Guidelines 15064(h) provides guidance for determining the significance of environmental effects caused by the project. The following subsections provide guidance specifically addressed at cumulative impacts.

- (1) When assessing whether a cumulative effect requires an EIR, the lead agency shall consider whether the cumulative impact is significant and whether the effects of the project are cumulatively considerable. An EIR must be prepared if the cumulative impact may be significant and the project's incremental effect, though individually limited, is cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.*
- (2) A lead agency may determine in an initial study that a project's contribution to a significant cumulative impact will be rendered less than cumulatively considerable and thus is not significant. When a project might contribute to a significant cumulative impact, but the contribution will be rendered less than cumulatively considerable through mitigation measures set forth in a mitigated negative declaration, the initial study shall briefly indicate and explain how the contribution has been rendered less than cumulatively considerable.*
- (3) A lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project will comply with the requirements in a previously approved plan or mitigation program (including, but not limited to, water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plan, plans or regulations for the reduction of greenhouse gas emissions) that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area in which the project is located. Such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. When relying on a plan, regulation or program, the lead agency should explain how implementing the particular requirements in the plan,*

*regulation or program ensure that the project's incremental contribution to the cumulative effect is not cumulatively considerable. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding that the project complies with the specified plan or mitigation program addressing the cumulative problem, an EIR must be prepared for the project.*

- (4) The mere existence of significant cumulative impacts caused by other projects alone shall not constitute substantial evidence that the proposed project's incremental effects are cumulatively considerable.*

CEQA Guidelines 15130 provides guidance for discussing cumulative impact in an EIR. The following excerpts apply:

- (a) An EIR shall discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable, as defined in section 15065 (a)(3). Where a lead agency is examining a project with an incremental effect that is not "cumulatively considerable," a lead agency need not consider that effect significant, but shall briefly describe its basis for concluding that the incremental effect is not cumulatively considerable.*

- (1) As defined in Section 15355, a cumulative impact consists of an impact which is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts. An EIR should not discuss impacts which do not result in part from the project evaluated in the EIR.*

- (2) When the combined cumulative impact associated with the project's incremental effect and the effects of other projects is not significant, the EIR shall briefly indicate why the cumulative impact is not significant and is not discussed in further detail in the EIR. A lead agency shall identify facts and analysis supporting the lead agency's conclusion that the cumulative impact is less than significant.*

- (b) The discussion of cumulative impacts shall reflect the severity of the impacts and their likelihood of occurrence, but the discussion need not provide as great detail as is provided for the effects attributable to the project alone. The discussion should be guided by standards of practicality and reasonableness, and should focus on the cumulative impact to which the identified other projects contribute rather than the attributes of other projects which do not contribute to the cumulative impact. The following elements are necessary to an adequate discussion of significant cumulative impacts:*

- (1) Either:*

- (A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency, or*

- (B) *A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect....*
- (2) *When utilizing a list, as suggested in paragraph (1) of subdivision (b), factors to consider when determining whether to include a related project should include the nature of each environmental resource being examined, the location of the project and its type. Location may be important, for example, when water quality impacts are at issue since projects outside the watershed would probably not contribute to a cumulative effect. Project type may be important, for example, when the impact is specialized, such as a particular air pollutant or mode of traffic.*
- (3) *Lead agencies should define the geographic scope of the area affected by the cumulative effect and provide a reasonable explanation for the geographic limitation used.*
- (4) *A summary of the expected environmental effects to be produced by those projects with specific reference to additional information stating where that information is available; and*
- (5) *A reasonable analysis of the cumulative impacts of the relevant projects. An EIR shall examine reasonable, feasible options for mitigating or avoiding the project's contribution to any significant cumulative effects.*
- (c) *With some projects, the only feasible mitigation for cumulative impacts may involve the adoption of ordinances or regulations rather than the imposition of conditions on a project-by-project basis.*

For cumulative toxic air contaminant (or "TAC") assessment, a list approach should be used to identify past and probable future projects producing related impacts. This allows for discrete sources of TAC emissions contributing to the cumulative impact to be identified. The location and geographic scope of the analysis is important for TACs due to effects of distance from the source on exposure of sensitive receptors to these pollutants.

## **2.8 EXISTING CONDITIONS FOR TOXIC EMISSIONS**

There are no state or federal ambient air quality standards applicable to TAC emissions. Preparing a cumulative assessment for TACs is complicated by the fact that site-specific impacts can be far different from average impacts over a larger geographic area. Impacts from TAC emissions are highest closest to sources of TACs, but the sources are often spread over a large area. For example, emissions from diesel engines, the largest source of risk from TACs, are operated on roads, businesses, and construction sites throughout the air basin. Locations where large numbers of TAC sources are concentrated such as freeways, railyards, and ports may pose a higher level of risk to sensitive receptors near these facilities. Examination of the risk from TACs at national, state, regional, and local levels is useful for providing context, but site-specific evaluation is ultimately necessary to determine existing conditions for development projects.

## SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT TOXIC ASSESSMENT

The SCAQMD has conducted an in-depth analysis of the toxic air contaminants and their resulting health risks for all of Southern California. This study, shows that due to improved DPM emissions control technologies and increasingly stringent DPM emissions regulations, the cancer risk incidence in the seven years between the *Mates II* and *Mates III* studies declined by approximately 15% even as population and business growth occurred throughout the region. Additionally, the *Multiple Air Toxics Exposure Study in the South Coast Air Basin, MATES IV*,” shows that cancer risk has decreased more than 50% between MATES III (2005) and MATES IV (2014) (8).

MATES-IV is the most comprehensive dataset documenting the ambient air toxic levels and health risks associated with the South Coast Air Basin emissions. Therefore, MATES-IV study represents the baseline health risk for a cumulative analysis. MATES-IV estimates the average excess cancer risk level from exposure to TACs is approximately 367 in one million basin-wide. These model estimates were based on monitoring data collected at ten fixed sites within the South Coast Air Basin. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-IV has extrapolated the excess cancer risk levels throughout the basin by modeling the specific grids. MATES-IV modeling predicted an excess cancer risk of 164 in one million for the Project area. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 80% of the total risk shown in MATES-IV. Cumulative Project generated TACs are limited to DPM.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (9). In this report the AQMD clearly states (Page D-3):

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

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

## **PROJECT-LEVEL CUMULATIVE TOXIC RISK ESTIMATES**

The most appropriate way to identify cumulative risk at a specific receptor location is to determine the zone of impact of all sources that contribute risk within a specified radius of the receptor that is most impacted by the project. The SCAQMD does not have specific methodology for assessing the geographic scope of cumulative impacts. In the absence of recommended guidance from the local air district/agencies, this analysis relies on the Bay Area Air Quality Management District (BAAQMD) guidelines. The BAAQMD recommends analyzing the impact of sources within 1,000-foot radius to capture the cumulative impact. A larger radius may be appropriate if a particularly large source is located beyond 1,000 feet from the project and should be considered on a project-by-project basis.

There are three scenarios that may occur when preparing a project-level cumulative analysis:

1. There are no existing or planned sources within the analysis radius that would contribute substantial emissions to the cumulative impact.
2. There are existing and planned sources within the analysis radius, but those sources are not cumulatively significant without the project.
3. The existing and planned sources within the analysis radius are significant without the project.

When considering the background cancer risk for the Project vicinity, the MATES-IV data has been determined to be the most appropriate since it provides a comprehensive assessment of the Project's geographic vicinity. Of the three scenarios identified above, #3 is most applicable for purposes of this analysis.

## **JUSTIFICATION OF THE GEOGRAPHIC SCOPE OF THE ANALYSIS**

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on ARB and South Coast District emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is estimated at approximately 1,000 feet from a mining operation (10).

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

For assessing the cumulative impacts of a new source of TAC emissions associated with a project in combination with existing sources and probable future sources, a project radius is necessary. Assessment of impacts from existing sources within 1,000 feet of the new source in combination with risks and hazards from the new source is recommended. Then, once the location of the maximally impacted receptor is identified for the project, cumulative impacts from other sources within the radius of the project (i.e., not the receptor) are assessed at that location. Assessments should sum individual hazards or risks to find the cumulative impact at the location of the maximally impacted receptor from the new source.

Lastly, the Waters Bill (AB 3205) (H&SC Section, 42301.6 through 42301.9) (11) addresses sources of hazardous air pollutants near schools. It requires new or modified sources of hazardous air emissions located within 1000 feet from the outer boundary of a school to give public notice to the parents or guardians of children enrolled in any school located within one-quarter mile of the source and to each address within a 1000 foot radius.

For purposes of this assessment, a one-quarter mile radius or 1,320 feet geographic scope is utilized for determining potential cumulative impacts. This radius is more robust than, and provides a more health protective scenario for evaluation than the 1,000 feet buffer identified above.

#### **CUMULATIVE IMPACT ANALYSIS**

Consistent with Section 15130(b) of the CEQA Guidelines a list of past, present, and probable future projects producing related or cumulative impacts have been identified. The Project's traffic study (12) identified 48 cumulative projects in the study area as summarized on Table 2-4. As discussed above, for analytical purposes related to TACs the geographic scope of this analysis is focused on an approximate one-quarter mile or 1,320 feet radius from the Project site.

Exhibit 2-D illustrates cumulative projects in the study area. It should be noted that none of the 48 cumulative projects identified are located within ¼ mile of the Project site thus they do not have the potential to contribute TACs to the study area.

The cumulative health risk is significant since the existing conditions plus cumulative projects would generate greater than a 10 in one million cancer risk. Notwithstanding, the Project's contribution is less than cumulatively considerable because it is less than the 10 in one million incremental cancer risk threshold established by the SCAQMD. Lastly, it should be noted that although there will be ambient growth in the Project vicinity, any increase in emissions and consequently cancer risk from ambient growth would be offset by the expected decrease in future risk estimates due to the natural turnover of older fleets and equipment being replaced by more efficient, less polluting engines and regulatory actions being phased in.

The cumulative with Project cancer risks are summarized on Table 2-5 for the Project. A summary of cumulative impacts for Residential, Worker, and School Child Exposure scenarios is as follows:

TABLE 2-4: CUMULATIVE DEVELOPMENT LIST

| No.                   | Project Name                                       | Location      | Land Use                                   | Quantity <sup>1</sup> |     |
|-----------------------|----------------------------------------------------|---------------|--------------------------------------------|-----------------------|-----|
| City of Lake Elsinore |                                                    |               |                                            |                       |     |
| LE1                   | Greenwald <sup>2</sup>                             | Lake Elsinore | Shopping Center                            | 104.450               | TSF |
| LE2                   | Ramsgate                                           | Lake Elsinore | Single Family Residential                  | 1,012                 | DU  |
|                       |                                                    |               | Condo/Townhomes                            | 120                   | DU  |
| LE3                   | Trieste Residential (Tract 36624)                  | Lake Elsinore | Single Family Residential                  | 75                    | DU  |
| LE4                   |                                                    |               |                                            |                       |     |
| LE5                   | 1400 Minthorn Street <sup>3</sup>                  | Lake Elsinore | Single Family Residential                  | 84                    | DU  |
| LE6                   | Spyglass Ranch <sup>4</sup>                        | Lake Elsinore | Single Family Residential                  | 523                   | DU  |
|                       |                                                    |               | Condo/Townhomes                            | 171                   | DU  |
|                       |                                                    |               | Shopping Center                            | 145.00                | TSF |
| LE7                   | South Shore I (Tract 31593) <sup>5</sup>           | Lake Elsinore | Single Family Residential                  | 521                   | DU  |
|                       | South Shore II (Tract 36567) <sup>5</sup>          | Lake Elsinore | Single Family Residential                  | 147                   | DU  |
| LE8                   | La Strada (Tract 32077)                            | Lake Elsinore | Single Family Residential                  | 134                   | DU  |
| LE9                   | Tuscany West (Tract 25473) <sup>5</sup>            | Lake Elsinore | Single Family Residential                  | 164                   | DU  |
| LE10                  | Marina Village Condos (Tract 33820) <sup>6</sup>   | Lake Elsinore | Condo/Townhomes                            | 94                    | DU  |
| LE11                  | Watersedge <sup>5</sup>                            | Lake Elsinore | Single Family Residential                  | 170                   | DU  |
|                       |                                                    |               | Condo/Townhomes                            | 250                   | DU  |
|                       |                                                    |               | Apartments                                 | 110                   | DU  |
|                       |                                                    |               | Office                                     | 54.600                | TSF |
|                       |                                                    |               | Hotel                                      | 150                   | RM  |
|                       |                                                    |               | Boat/Watercraft Dealers & Service          | 50.000                | TSF |
|                       |                                                    |               | Mini-Warehouse (Boat & Watercraft Storage) | 76.000                | TSF |
|                       |                                                    |               | Shopping Center                            | 86.600                | TSF |
|                       | Cottages by the Lake                               | Lake Elsinore | Condo/Townhomes                            | 169                   | DU  |
| LE12                  | Tessera <sup>5</sup>                               | Lake Elsinore | Single Family Residential                  | 90                    | DU  |
| LE13                  | TAG Property <sup>6</sup>                          | Lake Elsinore | New Car Sales                              | 50.000                | TSF |
| LE14                  | City Center Condos <sup>6</sup>                    | Lake Elsinore | Condo/Townhomes                            | 144                   | DU  |
| LE15                  | Lake View Villas                                   | Lake Elsinore | Condo/Townhomes                            | 155                   | DU  |
| LE16                  | Diamond Specific Plan <sup>7</sup>                 | Lake Elsinore | Condo/Townhomes                            | 600                   | DU  |
|                       |                                                    |               | Hotel                                      | 150                   | RM  |
|                       |                                                    |               | General Office                             | 425.000               | TSF |
|                       |                                                    |               | Shopping Center                            | 472.000               | TSF |
| LE17                  | The Colony <sup>6</sup>                            | Lake Elsinore | Apartments                                 | 211                   | DU  |
|                       | Back Basin Specific Plan & East Lake Specific Plan | Lake Elsinore | Single Family Residential                  | 2,407                 | DU  |
|                       |                                                    |               | Condo/Townhomes                            | 324                   | DU  |
|                       | John Laing Homes (Phase 2)                         | Lake Elsinore | Single Family Residential                  | 506                   | DU  |
|                       |                                                    |               | Condo/Townhomes                            | 1,141                 | DU  |
|                       |                                                    |               | Apartments                                 | 308                   | DU  |
|                       |                                                    |               | Shopping Center                            | 117.000               | TSF |

|                            |                                                                               |                     |                                   |         |     |
|----------------------------|-------------------------------------------------------------------------------|---------------------|-----------------------------------|---------|-----|
| LE18                       | Canyon Hills Estates (Tract 34249)                                            | Lake Elsinore       | Single Family Residential         | 302     | DU  |
|                            | Canyon Hills (Multiple Tracts)                                                | Lake Elsinore       | Single Family Residential         | 2,700   | DU  |
|                            |                                                                               |                     | Apartments                        | 1,575   | DU  |
|                            | Audie Murphy (Tract 36484)                                                    | Lake Elsinore       | Single Family Residential         | 109     | DU  |
|                            | Audie Murphy (Tract 36485)                                                    | Lake Elsinore       | Single Family Residential         | 1,003   | DU  |
| LE19                       | Gruneto Hills                                                                 | Lake Elsinore       | Single Family Residential         | 191     | DU  |
| LE20                       | Hotel at 17584 Lawrence Way                                                   | Lake Elsinore       | Hotel                             | 57      | RM  |
| LE21                       | Alberhill Ridge (Tract 35001)                                                 | Lake Elsinore       | Single Family Residential         | 1,056   | DU  |
|                            |                                                                               |                     | Apartments                        | 345     | DU  |
|                            |                                                                               |                     | Shopping Center                   | 679.000 | TSF |
|                            |                                                                               |                     | General Office                    | 679.000 | TSF |
| LE22                       | Alberhill Ranch                                                               | Lake Elsinore       | Single Family Residential         | 1,986   | DU  |
| LE23                       | Lake Elsinore Walmart                                                         | Lake Elsinore       | Free-Standing Discount Superstore | 154.487 | TSF |
|                            |                                                                               |                     | Specialty Retail                  | 4.600   | TSF |
|                            |                                                                               |                     | Fast Food w/Drive Thru            | 6.800   | TSF |
|                            |                                                                               |                     | Fast Food w/o Drive Thru          | 4.600   | TSF |
| LE24                       | Circle K                                                                      | Lake Elsinore       | Gas Station                       | 4.500   | TSF |
| LE25                       | Alberhill Villages                                                            | Lake Elsinore       | Single Family Residential         | 9,536   | DU  |
| LE26                       | Terracina                                                                     | Lake Elsinore       | Single Family Residential         | 365     | DU  |
| LE27                       | Encore at Cambria Hills                                                       | Lake Elsinore       | Single Family Residential         | 214     | DU  |
| LE28                       | Family Dollar Store                                                           | Lake Elsinore       | Discount Store                    | 8.320   | TSF |
| LE29                       | Fisherman's Wharf                                                             | Lake Elsinore       | Fisherman's Wharf                 | 12.748  | TSF |
| LE30                       | Wake Rider Beach Resort                                                       | Lake Elsinore       | Beach Resort                      | 11.350  | TSF |
| LE31                       | Lakeshore Town Center                                                         | Lake Elsinore       | Town Center                       | 237.400 | TSF |
| LE32                       | Ortega                                                                        | Lake Elsinore       | Single Family Residential         | 105     | DU  |
| LE33                       | Summerly                                                                      | Lake Elsinore       | Single Family Residential         | 142     | DU  |
| LE34                       | Beazer, KB Homes, McMillin Homes, Richmond American                           | Lake Elsinore       | Single Family Residential         | 395     | DU  |
| LE35                       | Village at Lake Elsinore SPA #1                                               | Lake Elsinore       | Single Family Residential         | 163     | DU  |
| LE36                       | Lake Shore Pointe Phase I                                                     | Lake Elsinore       | Single Family Residential         | 43      | DU  |
|                            |                                                                               |                     | Apartments                        | 161     | DU  |
| LE37                       | Golden Corral Restaurant                                                      | Lake Elsinore       | Restaurant                        | 7.798   | TSF |
| <b>County of Riverside</b> |                                                                               |                     |                                   |         |     |
| RC1                        | Lennar (Tract 31792)                                                          | County of Riverside | Single Family Residential         | 191     | DU  |
| RC2                        | PM33840                                                                       | County of Riverside | Single Family Residential         | 4       | DU  |
| RC3                        | PP20158R1                                                                     | County of Riverside | Storage Facility                  | 103.727 | TSF |
| RC4                        | CUP03651                                                                      | County of Riverside | Recycling Facility                | 0.504   | TSF |
| <b>City of Wildomar</b>    |                                                                               |                     |                                   |         |     |
| W1                         | Rancon Monte Vista Residential (TTM No. 31409, APN: 367-110-007, 367-110-008) | Wildomar            | SFDR                              | 126     | DU  |
| W2                         | Wildomar Walmart                                                              | Wildomar            | Free-Standing Discount Superstore | 200.000 | TSF |
|                            |                                                                               |                     | Specialty Retail                  | 3.900   | TSF |
|                            |                                                                               |                     | Fast-food with Drive-Through      | 126.000 | TSF |

|    |                                                                    |               |                        |        |     |
|----|--------------------------------------------------------------------|---------------|------------------------|--------|-----|
| W3 | Cornerstone Church Pre-School Expansion (PUP No. 778) <sup>4</sup> | Wildomar      | Pre-School/Day Care    | 180    | STU |
| W4 | Sehremelis PAR (TTM 29426, APN:367-250-007)                        | Lake Elsinore | SFDR                   | 80     | DU  |
| W5 | Subway (Case No. 10-0222, APN:366-390-026, 366-390-027)            | Wildomar      | Specialty Retail       | 10.500 | TSF |
| W6 | Orange Bundy (TPM 30522, APN: 367-100-024, 367-100-026)            | Wildomar      | Retail                 | 79.497 | TSF |
|    |                                                                    |               | Fast Food w/Drive Thru | 1.500  | TSF |
|    |                                                                    |               | Gas Station w/ Market  | 6      | VFP |
| W7 | Bundy Canyon Plaza (Case No. 08-0179, TPM 32257, APN:367-100-019)  | Wildomar      | Retail                 | 33.800 | TSF |
|    |                                                                    |               | Fast Food w/Drive Thru | 6.200  | TSF |
|    |                                                                    |               | Gas Station w/ Market  | 12     | VFP |

<sup>1</sup> TSF = Thousand Square Feet; DU = Dwelling Unit; AC = Acres; STU = Students; VFP = Vehicle Fueling Positions

<sup>2</sup> Source: Greenwald Avenue Commercial Center TIA, Urban Crossroads, Inc., May 2008.

<sup>3</sup> Source: 1400 Minthorn Street Traffic Study Report, ASM Consulting, August 2007.

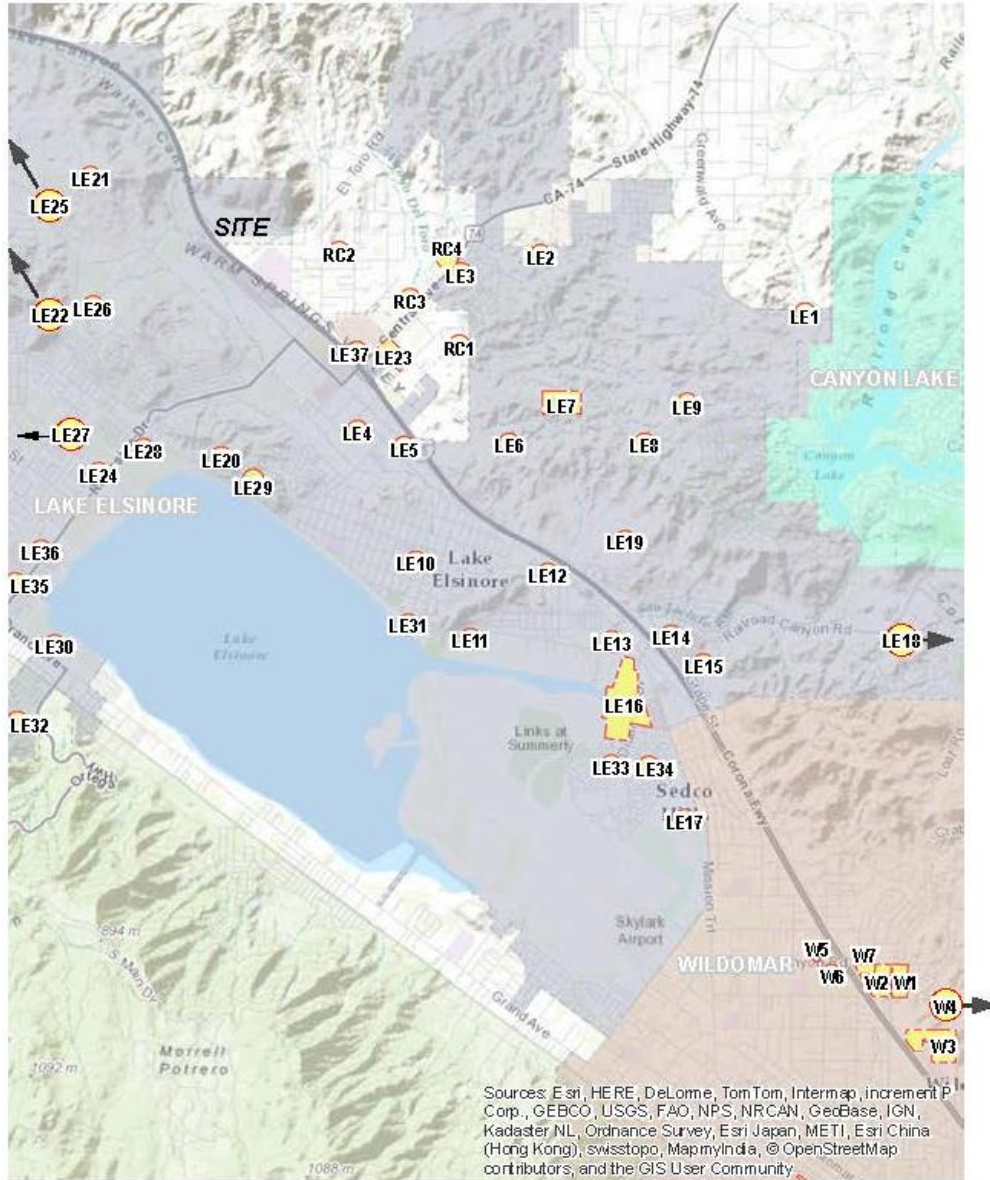
<sup>4</sup> Source: Spyglass Ranch TIA (Revised), Kunzman Associates, February 2007.

<sup>5</sup> Source: Porto Romano SP TIA (Revised), Urban Crossroads, Inc., May 2007.

<sup>6</sup> Source: Lake Elsinore TAG Property TIA (Revised), Urban Crossroads, Inc., August 2008.

<sup>7</sup> Source: The Diamond Specific Plan TIA, Urban Crossroads, Inc., April 2009.

**EXHIBIT 2-D: CUMULATIVE DEVELOPMENT PROJECTS LOCATION MAP**



**TABLE 2-5: CUMULATIVE CANCER RISK<sup>4</sup>**

|                                                    | Cancer Risk as Maximum Sensitive Receptor (risk in one million) |              |                     |                       |
|----------------------------------------------------|-----------------------------------------------------------------|--------------|---------------------|-----------------------|
|                                                    | Existing                                                        | Project Site | Cumulative Projects | Total Cumulative Risk |
| Maximum Impact to All Receptors Without Project    | 164                                                             |              | --                  | ~164                  |
| Maximum Impact to Nearest Residential With Project | 164                                                             | 0.96         | --                  | ~164.96               |
| Maximum Impact to Nearest Worker With Project      | 164                                                             | 0.13         | --                  | ~164.13               |
| Maximum Impact to Nearest School With Project      | 164                                                             | 0.10         | --                  | ~164.10               |

Source: **MATES IV Carcinogenic Risk Interactive Map**(<http://www3.agmd.gov/webappl/OI.Web/OI.aspx?jurisdictionID=AQMD.gov&shareID=73f55d6b-82cc-4c41-b779-4c48c9a8b15b>).

-- = negligible

**Residential Exposure Scenario:**

The highest cumulative with Project cancer risk is ~164.96 in one million. The Project's maximum incremental contribution to the cumulative health risk in the Project area is 0.96 in one million which is not above the 10 in one million incremental threshold set by SCAQMD, and is therefore less-than-significant. Accordingly, pursuant to SCAQMD cumulative impact criteria, the Project's Residential Exposure impacts would not be cumulatively considerable.

**Worker Exposure Scenario:**

The highest cumulative with Project cancer risk after is ~164.13 in one million. The Project's maximum incremental contribution to the cumulative health risk in the Project area is 0.13 in one million which is not above the 10 in one million incremental threshold set by SCAQMD, and is therefore less-than-significant. Accordingly, pursuant to SCAQMD cumulative impact criteria, the Project's Worker Exposure impacts would not be cumulatively considerable.

**School Child Exposure Scenario:**

The highest cumulative with Project cancer risk after is ~164.10 in one million. The Project's maximum incremental contribution to the cumulative health risk in the Project area is 0.10 in one million which is not above the 10 in one million incremental threshold set by SCAQMD, and

<sup>4</sup> Although cumulative impacts typically represent a General Plan Buildout Scenario, there is no such data available for what General Plan Buildout DPM emissions impacts would be. The background risk, however, would likely overstate, rather than understate future DPM impacts and is assumed to be inclusive of future growth. It should be noted that due to improved DPM emissions control technologies and increasingly stringent DPM emissions regulations, the cancer risk incidence in the seven (7) years between the Mates II and Mates III studies declined by approximately 15% even as population and business growth occurred throughout the region. Additionally cancer risk has decreased more than 50% between MATES III (2005) and MATES IV (2014).

is therefore less-than-significant. Accordingly, pursuant to SCAQMD cumulative impact criteria, the Project's School Child Exposure impacts would not be cumulatively considerable.

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### 3 REFERENCES

1. **South Coast Air Quality Management District.** Mobile Source Toxics Analysis. [Online] 2003.  
[http://www.aqmd.gov/ceqa/handbook/mobile\\_toxic/mobile\\_toxic.html](http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html).
2. **California Department of Transportation Environmental Program.** *Technical Noise Supplement - A Technical Supplement to the Traffic Noise Analysis Protocol*. Sacramento, CA : s.n., September 2013.
3. **California Department of Transportation.** EMFAC Software. [Online]  
<http://www.dot.ca.gov/hq/env/air/pages/emfac.htm>.
4. **Koizumi, James.** *Planning, Rule Development & Area Sources*. May 6, 2009.
5. **Environmental Protection Agency.** User's Guide for the AMS/EPA Regulatory Model - AERMOD. [Online] September 2004. <http://www.epa.gov/scram001/7thconf/aermod/aermodugb.pdf>.
6. **South Coast Air Quality Management District.** *Air Quality Reporting*. [pdf] Diamond Bar : Sierra Wade Associates, 1999.
7. **Office of Environmental Health Hazard Assessment.** IR TOXICS HOT SPOTS PROGRAM RISK ASSESSMENT GUIDELINES. [Online] February 2012.  
[http://oehha.ca.gov/air/hot\\_spots/SRP/index.html](http://oehha.ca.gov/air/hot_spots/SRP/index.html).
8. **South Coast Air Quality Management District.** Multiple Air Toxics Exposure Study III Model Estimated Carcinogenic Risk. [Online] 2012.  
<http://www3.aqmd.gov/webappl/OI.Web/OI.aspx?jurisdictionID=AQMD.gov&shareID=73f55d6b-82cc-4c41-b779-4c48c9a8b15b>.
9. **Goss, Tracy A and Kroeger, Amy.** White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. [Online] South Coast Air Quality Management District, 2003.  
[http://www.aqmd.gov/rules/ciwg/final\\_white\\_paper.pdf](http://www.aqmd.gov/rules/ciwg/final_white_paper.pdf).
10. **Air Resources Board.** *Air Quality and Land Use Handbook: A Community Health Perspective*. 2005.
11. **CAL HSC Code 42301.6 California Code - Section 42301.6. Find Law.** [Online]  
<http://codes.lp.findlaw.com/cacode/HSC/1/d26/4/4/1/s42301.6>.
12. **Urban Crossroads, Inc.** *Amendment No. 2 to Reclamation Plan 2006-01 Traffic Impact Analysis*. Irvine : s.n., 2015.

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## 4 CERTIFICATION

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Amendment No. 2 to Reclamation Plan 2006-01 Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 660-1994 ext. 217.

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### 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 5.1:**

**AERMOD MODEL INPUT/OUTPUT**

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Emission Rates - Residential Exposure (Average of emission factors for years 2016 through 2085) - UNMITIGATED

| Truck Emission Rates (70 year average) |                |                                 |                                                  |                                                       |                                                   |                                      |
|----------------------------------------|----------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|--------------------------------------|
| Source                                 | Trucks Per Day | VMT <sup>a</sup><br>(miles/day) | Truck Emission Rate <sup>b</sup><br>(grams/mile) | Truck Emission Rate <sup>b</sup><br>(grams/idle-hour) | Daily Truck Emissions <sup>c</sup><br>(grams/day) | Modeled Emission Rates<br>(g/second) |
| On-Site Idling                         | 70             |                                 |                                                  | 0.0067                                                | 0.12                                              | 1.354E-06                            |
| On-Site Travel                         | 140            | 67.50                           | 0.0172                                           |                                                       | 1.16                                              | 1.340E-05                            |

Emission Rates - Worker Exposure (Average of emission factors for years 2016 through 2055) - UNMITIGATED

| Truck Emission Rates (40 year average) |               |                                 |                                                  |                                                       |                                                   |                                      |
|----------------------------------------|---------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|--------------------------------------|
| Source                                 | Trips Per Day | VMT <sup>a</sup><br>(miles/day) | Truck Emission Rate <sup>b</sup><br>(grams/mile) | Truck Emission Rate <sup>b</sup><br>(grams/idle-hour) | Daily Truck Emissions <sup>c</sup><br>(grams/day) | Modeled Emission Rates<br>(g/second) |
| On-Site Idling                         | 70            |                                 |                                                  | 0.0105                                                | 0.18                                              | 2.133E-06                            |
| On-Site Travel                         | 140           | 67.50                           | 0.0219                                           |                                                       | 1.48                                              | 1.707E-05                            |

Emission Rates - School Child Exposure (Average of emission factors for years 2016 through 2024) - UNMITIGATED

| Truck Emission Rates (9 year average) |               |                                 |                                                  |                                                       |                                                   |                                      |
|---------------------------------------|---------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|--------------------------------------|
| Source                                | Trips Per Day | VMT <sup>a</sup><br>(miles/day) | Truck Emission Rate <sup>b</sup><br>(grams/mile) | Truck Emission Rate <sup>b</sup><br>(grams/idle-hour) | Daily Truck Emissions <sup>c</sup><br>(grams/day) | Modeled Emission Rates<br>(g/second) |
| On-Site Idling                        | 70            |                                 |                                                  | 0.0368                                                | 0.64                                              | 7.451E-06                            |
| On-Site Travel                        | 140           | 67.50                           | 0.0585                                           |                                                       | 3.95                                              | 4.566E-05                            |
| Off-Site Travel                       | 140           | 93.17                           | 0.0280                                           |                                                       | 2.61                                              | 3.020E-05                            |

# ResDPM

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 9.0.0

\*\* Lakes Environmental Software Inc.

\*\* Date: 9/11/2015

\*\* File: C:\Lakes\AERMOD View\NicholsMine\ResDPM\ResDPM.ADI

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\*\*\*\*\*

\*\*

\*\*

\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Lakes\AERMOD View\NicholsMine\ResDPM\ResDPM.isc

MODELOPT DFAULT CONC

AVERTIME ANNUAL

URBANOPT 2100516

POLLUTID DPM

RUNORNOT RUN

ERRORFIL ResDPM.err

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

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|----------|--------|----------|------------|-------------|---------|
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|----------|--------|----------|------------|-------------|---------|

\*\* DESCRSRC On-Site Equipment

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE1

\*\* DESCRSRC On-Site Idling

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 1.354E-06

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 11

ResDPM

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 \*\* 467357.787, 3730278.922, 517.06, 0.00, 3.95  
 \*\* 467398.643, 3730210.828, 508.31, 0.00, 3.95  
 \*\* 467432.691, 3730090.528, 475.46, 0.00, 3.95  
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 \*\* 467720.957, 3729779.563, 415.97, 0.00, 3.95

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 LOCATION L0000499 VOLUME 467423.122 3730124.336 486.12

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| LOCATION | L0000527 | VOLUME | 467545.806 | 3729936.749 434.57 |
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| LOCATION | L0000532 | VOLUME | 467580.153 | 3729911.931 431.78 |
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| LOCATION | L0000534 | VOLUME | 467593.353 | 3729901.218 429.82 |
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| LOCATION | L0000554 | VOLUME | 467716.225 | 3729784.192 420.12 |

\*\* End of LINE VOLUME Source ID = SLINE1

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\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC On-Site Travel

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000134

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 11

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\*\* 467668.751, 3729830.634, 421.78, 0.00, 3.95

\*\* 467720.957, 3729779.563, 415.97, 0.00, 3.95

\*\* -----

|          |          |        |            |                    |
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| LOCATION | L0000555 | VOLUME | 467255.988 | 3730355.226 501.52 |
| LOCATION | L0000556 | VOLUME | 467263.483 | 3730351.217 502.88 |
| LOCATION | L0000557 | VOLUME | 467270.978 | 3730347.208 504.79 |
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| LOCATION | L0000563 | VOLUME | 467313.483 | 3730319.681 511.68 |
| LOCATION | L0000564 | VOLUME | 467319.739 | 3730313.926 512.14 |
| LOCATION | L0000565 | VOLUME | 467325.994 | 3730308.171 512.86 |
| LOCATION | L0000566 | VOLUME | 467332.250 | 3730302.416 514.07 |
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| LOCATION | L0000569 | VOLUME | 467351.016 | 3730285.151 518.61 |
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|          |          | ResDPM |            |                    |
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| LOCATION | L0000572 | VOLUME | 467366.173 | 3730264.945 518.25 |
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| LOCATION | L0000586 | VOLUME | 467413.863 | 3730157.051 495.44 |
| LOCATION | L0000587 | VOLUME | 467416.178 | 3730148.873 493.39 |
| LOCATION | L0000588 | VOLUME | 467418.493 | 3730140.694 491.16 |
| LOCATION | L0000589 | VOLUME | 467420.807 | 3730132.515 488.76 |
| LOCATION | L0000590 | VOLUME | 467423.122 | 3730124.336 486.12 |
| LOCATION | L0000591 | VOLUME | 467425.437 | 3730116.158 483.16 |
| LOCATION | L0000592 | VOLUME | 467427.751 | 3730107.979 480.19 |
| LOCATION | L0000593 | VOLUME | 467430.066 | 3730099.800 477.23 |
| LOCATION | L0000594 | VOLUME | 467432.381 | 3730091.621 474.31 |
| LOCATION | L0000595 | VOLUME | 467434.588 | 3730083.413 471.49 |
| LOCATION | L0000596 | VOLUME | 467436.778 | 3730075.200 468.78 |
| LOCATION | L0000597 | VOLUME | 467438.968 | 3730066.987 466.20 |
| LOCATION | L0000598 | VOLUME | 467441.158 | 3730058.774 462.66 |
| LOCATION | L0000599 | VOLUME | 467443.348 | 3730050.561 458.86 |
| LOCATION | L0000600 | VOLUME | 467445.538 | 3730042.348 455.11 |
| LOCATION | L0000601 | VOLUME | 467447.729 | 3730034.135 451.34 |
| LOCATION | L0000602 | VOLUME | 467449.919 | 3730025.922 447.49 |
| LOCATION | L0000603 | VOLUME | 467452.109 | 3730017.709 443.71 |
| LOCATION | L0000604 | VOLUME | 467454.299 | 3730009.496 440.02 |
| LOCATION | L0000605 | VOLUME | 467458.310 | 3730002.294 437.04 |
| LOCATION | L0000606 | VOLUME | 467464.123 | 3729996.093 434.75 |
| LOCATION | L0000607 | VOLUME | 467469.937 | 3729989.892 432.61 |
| LOCATION | L0000608 | VOLUME | 467475.750 | 3729983.691 430.45 |
| LOCATION | L0000609 | VOLUME | 467481.564 | 3729977.490 428.45 |
| LOCATION | L0000610 | VOLUME | 467487.377 | 3729971.289 426.98 |
| LOCATION | L0000611 | VOLUME | 467494.198 | 3729966.360 426.36 |
| LOCATION | L0000612 | VOLUME | 467501.570 | 3729962.130 426.83 |
| LOCATION | L0000613 | VOLUME | 467508.943 | 3729957.900 428.74 |
| LOCATION | L0000614 | VOLUME | 467516.315 | 3729953.670 430.45 |
| LOCATION | L0000615 | VOLUME | 467523.688 | 3729949.440 431.94 |
| LOCATION | L0000616 | VOLUME | 467531.061 | 3729945.209 433.18 |
| LOCATION | L0000617 | VOLUME | 467538.433 | 3729940.979 433.98 |
| LOCATION | L0000618 | VOLUME | 467545.806 | 3729936.749 434.57 |
| LOCATION | L0000619 | VOLUME | 467553.179 | 3729932.519 434.95 |

# ResDPM

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0000620 | VOLUME | 467560.354 | 3729928.001 | 434.91 |
| LOCATION L0000621 | VOLUME | 467566.953 | 3729922.644 | 433.86 |
| LOCATION L0000622 | VOLUME | 467573.553 | 3729917.288 | 432.82 |
| LOCATION L0000623 | VOLUME | 467580.153 | 3729911.931 | 431.78 |
| LOCATION L0000624 | VOLUME | 467586.753 | 3729906.575 | 430.74 |
| LOCATION L0000625 | VOLUME | 467593.353 | 3729901.218 | 429.82 |
| LOCATION L0000626 | VOLUME | 467599.953 | 3729895.862 | 429.23 |
| LOCATION L0000627 | VOLUME | 467606.553 | 3729890.506 | 428.96 |
| LOCATION L0000628 | VOLUME | 467613.153 | 3729885.149 | 429.01 |
| LOCATION L0000629 | VOLUME | 467619.753 | 3729879.793 | 429.16 |
| LOCATION L0000630 | VOLUME | 467626.352 | 3729874.436 | 429.50 |
| LOCATION L0000631 | VOLUME | 467632.952 | 3729869.080 | 429.60 |
| LOCATION L0000632 | VOLUME | 467639.200 | 3729863.352 | 429.24 |
| LOCATION L0000633 | VOLUME | 467644.897 | 3729857.044 | 428.28 |
| LOCATION L0000634 | VOLUME | 467650.595 | 3729850.736 | 427.39 |
| LOCATION L0000635 | VOLUME | 467656.292 | 3729844.428 | 426.24 |
| LOCATION L0000636 | VOLUME | 467661.989 | 3729838.120 | 425.09 |
| LOCATION L0000637 | VOLUME | 467667.687 | 3729831.812 | 423.94 |
| LOCATION L0000638 | VOLUME | 467673.692 | 3729825.800 | 422.96 |
| LOCATION L0000639 | VOLUME | 467679.768 | 3729819.856 | 422.78 |
| LOCATION L0000640 | VOLUME | 467685.844 | 3729813.912 | 422.40 |
| LOCATION L0000641 | VOLUME | 467691.920 | 3729807.968 | 422.03 |
| LOCATION L0000642 | VOLUME | 467697.997 | 3729802.024 | 421.65 |
| LOCATION L0000643 | VOLUME | 467704.073 | 3729796.080 | 421.27 |
| LOCATION L0000644 | VOLUME | 467710.149 | 3729790.136 | 420.87 |
| LOCATION L0000645 | VOLUME | 467716.225 | 3729784.192 | 420.12 |

\*\* End of LINE VOLUME Source ID = SLINE2

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Off-Site Travel

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00001037

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 15

\*\* 467773.569, 3729732.155, 414.00, 0.00, 3.95

\*\* 467719.897, 3729744.702, 413.93, 0.00, 3.95

\*\* 467689.924, 3729762.128, 414.29, 0.00, 3.95

\*\* 467662.042, 3729777.463, 412.74, 0.00, 3.95

\*\* 467650.889, 3729785.131, 413.77, 0.00, 3.95

\*\* 467631.372, 3729789.313, 412.26, 0.00, 3.95

\*\* 467602.096, 3729802.557, 410.47, 0.00, 3.95

\*\* 467522.632, 3729804.648, 408.27, 0.00, 3.95

\*\* 467443.169, 3729807.437, 402.19, 0.00, 3.95

\*\* 467335.127, 3729833.924, 399.47, 0.00, 3.95

ResDPM

\*\* 467295.395, 3729839.501, 398.16, 0.00, 3.95  
 \*\* 467217.326, 3729834.621, 400.44, 0.00, 3.95  
 \*\* 467097.434, 3729803.254, 398.97, 0.00, 3.95  
 \*\* 466919.687, 3729764.220, 401.42, 0.00, 3.95  
 \*\* 466736.447, 3729716.966, 402.67, 0.00, 3.95

\*\* -----

|          |          |        |            |             |        |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0000646 | VOLUME | 467769.431 | 3729733.123 | 414.00 |
| LOCATION | L0000647 | VOLUME | 467761.154 | 3729735.058 | 413.99 |
| LOCATION | L0000648 | VOLUME | 467752.877 | 3729736.993 | 414.10 |
| LOCATION | L0000649 | VOLUME | 467744.600 | 3729738.927 | 414.29 |
| LOCATION | L0000650 | VOLUME | 467736.323 | 3729740.862 | 414.47 |
| LOCATION | L0000651 | VOLUME | 467728.047 | 3729742.797 | 414.59 |
| LOCATION | L0000652 | VOLUME | 467719.784 | 3729744.768 | 414.68 |
| LOCATION | L0000653 | VOLUME | 467712.436 | 3729749.040 | 414.91 |
| LOCATION | L0000654 | VOLUME | 467705.087 | 3729753.312 | 414.98 |
| LOCATION | L0000655 | VOLUME | 467697.739 | 3729757.585 | 414.87 |
| LOCATION | L0000656 | VOLUME | 467690.391 | 3729761.857 | 414.62 |
| LOCATION | L0000657 | VOLUME | 467682.949 | 3729765.964 | 414.22 |
| LOCATION | L0000658 | VOLUME | 467675.501 | 3729770.061 | 414.22 |
| LOCATION | L0000659 | VOLUME | 467668.053 | 3729774.157 | 414.10 |
| LOCATION | L0000660 | VOLUME | 467660.691 | 3729778.392 | 413.86 |
| LOCATION | L0000661 | VOLUME | 467653.687 | 3729783.208 | 413.57 |
| LOCATION | L0000662 | VOLUME | 467645.898 | 3729786.201 | 413.14 |
| LOCATION | L0000663 | VOLUME | 467637.586 | 3729787.982 | 412.77 |
| LOCATION | L0000664 | VOLUME | 467629.418 | 3729790.197 | 412.39 |
| LOCATION | L0000665 | VOLUME | 467621.673 | 3729793.701 | 412.05 |
| LOCATION | L0000666 | VOLUME | 467613.929 | 3729797.204 | 411.71 |
| LOCATION | L0000667 | VOLUME | 467606.185 | 3729800.707 | 411.48 |
| LOCATION | L0000668 | VOLUME | 467598.085 | 3729802.663 | 411.16 |
| LOCATION | L0000669 | VOLUME | 467589.588 | 3729802.886 | 410.69 |
| LOCATION | L0000670 | VOLUME | 467581.091 | 3729803.110 | 410.64 |
| LOCATION | L0000671 | VOLUME | 467572.594 | 3729803.334 | 410.59 |
| LOCATION | L0000672 | VOLUME | 467564.097 | 3729803.557 | 410.54 |
| LOCATION | L0000673 | VOLUME | 467555.600 | 3729803.781 | 410.35 |
| LOCATION | L0000674 | VOLUME | 467547.103 | 3729804.004 | 410.00 |
| LOCATION | L0000675 | VOLUME | 467538.606 | 3729804.228 | 409.65 |
| LOCATION | L0000676 | VOLUME | 467530.109 | 3729804.452 | 409.30 |
| LOCATION | L0000677 | VOLUME | 467521.612 | 3729804.684 | 408.14 |
| LOCATION | L0000678 | VOLUME | 467513.117 | 3729804.982 | 406.93 |
| LOCATION | L0000679 | VOLUME | 467504.622 | 3729805.280 | 405.72 |
| LOCATION | L0000680 | VOLUME | 467496.127 | 3729805.578 | 404.73 |
| LOCATION | L0000681 | VOLUME | 467487.633 | 3729805.876 | 404.07 |
| LOCATION | L0000682 | VOLUME | 467479.138 | 3729806.174 | 403.40 |
| LOCATION | L0000683 | VOLUME | 467470.643 | 3729806.473 | 402.73 |
| LOCATION | L0000684 | VOLUME | 467462.148 | 3729806.771 | 402.48 |
| LOCATION | L0000685 | VOLUME | 467453.654 | 3729807.069 | 402.30 |
| LOCATION | L0000686 | VOLUME | 467445.159 | 3729807.367 | 402.11 |
| LOCATION | L0000687 | VOLUME | 467436.847 | 3729808.986 | 401.96 |

|                   |        |            | ResDPM      |        |  |
|-------------------|--------|------------|-------------|--------|--|
| LOCATION L0000688 | VOLUME | 467428.592 | 3729811.010 | 401.82 |  |
| LOCATION L0000689 | VOLUME | 467420.336 | 3729813.034 | 401.64 |  |
| LOCATION L0000690 | VOLUME | 467412.081 | 3729815.058 | 401.42 |  |
| LOCATION L0000691 | VOLUME | 467403.825 | 3729817.082 | 401.10 |  |
| LOCATION L0000692 | VOLUME | 467395.570 | 3729819.106 | 400.76 |  |
| LOCATION L0000693 | VOLUME | 467387.314 | 3729821.130 | 400.42 |  |
| LOCATION L0000694 | VOLUME | 467379.059 | 3729823.154 | 400.09 |  |
| LOCATION L0000695 | VOLUME | 467370.803 | 3729825.178 | 400.02 |  |
| LOCATION L0000696 | VOLUME | 467362.547 | 3729827.202 | 399.98 |  |
| LOCATION L0000697 | VOLUME | 467354.292 | 3729829.226 | 399.91 |  |
| LOCATION L0000698 | VOLUME | 467346.036 | 3729831.250 | 399.71 |  |
| LOCATION L0000699 | VOLUME | 467337.781 | 3729833.274 | 399.36 |  |
| LOCATION L0000700 | VOLUME | 467329.415 | 3729834.726 | 399.04 |  |
| LOCATION L0000701 | VOLUME | 467320.998 | 3729835.907 | 398.72 |  |
| LOCATION L0000702 | VOLUME | 467312.580 | 3729837.089 | 398.48 |  |
| LOCATION L0000703 | VOLUME | 467304.163 | 3729838.270 | 398.29 |  |
| LOCATION L0000704 | VOLUME | 467295.745 | 3729839.451 | 398.11 |  |
| LOCATION L0000705 | VOLUME | 467287.265 | 3729838.993 | 397.96 |  |
| LOCATION L0000706 | VOLUME | 467278.781 | 3729838.462 | 397.79 |  |
| LOCATION L0000707 | VOLUME | 467270.298 | 3729837.932 | 397.61 |  |
| LOCATION L0000708 | VOLUME | 467261.814 | 3729837.402 | 397.42 |  |
| LOCATION L0000709 | VOLUME | 467253.331 | 3729836.872 | 397.55 |  |
| LOCATION L0000710 | VOLUME | 467244.848 | 3729836.341 | 397.82 |  |
| LOCATION L0000711 | VOLUME | 467236.364 | 3729835.811 | 398.12 |  |
| LOCATION L0000712 | VOLUME | 467227.881 | 3729835.281 | 398.45 |  |
| LOCATION L0000713 | VOLUME | 467219.397 | 3729834.751 | 398.80 |  |
| LOCATION L0000714 | VOLUME | 467211.110 | 3729832.995 | 399.34 |  |
| LOCATION L0000715 | VOLUME | 467202.887 | 3729830.844 | 400.03 |  |
| LOCATION L0000716 | VOLUME | 467194.664 | 3729828.692 | 400.74 |  |
| LOCATION L0000717 | VOLUME | 467186.441 | 3729826.541 | 401.36 |  |
| LOCATION L0000718 | VOLUME | 467178.218 | 3729824.390 | 401.82 |  |
| LOCATION L0000719 | VOLUME | 467169.994 | 3729822.238 | 402.00 |  |
| LOCATION L0000720 | VOLUME | 467161.771 | 3729820.087 | 401.79 |  |
| LOCATION L0000721 | VOLUME | 467153.548 | 3729817.935 | 401.61 |  |
| LOCATION L0000722 | VOLUME | 467145.325 | 3729815.784 | 401.47 |  |
| LOCATION L0000723 | VOLUME | 467137.101 | 3729813.632 | 401.28 |  |
| LOCATION L0000724 | VOLUME | 467128.878 | 3729811.481 | 400.94 |  |
| LOCATION L0000725 | VOLUME | 467120.655 | 3729809.330 | 400.64 |  |
| LOCATION L0000726 | VOLUME | 467112.432 | 3729807.178 | 400.38 |  |
| LOCATION L0000727 | VOLUME | 467104.209 | 3729805.027 | 399.77 |  |
| LOCATION L0000728 | VOLUME | 467095.971 | 3729802.933 | 398.79 |  |
| LOCATION L0000729 | VOLUME | 467087.669 | 3729801.110 | 397.62 |  |
| LOCATION L0000730 | VOLUME | 467079.367 | 3729799.287 | 396.32 |  |
| LOCATION L0000731 | VOLUME | 467071.065 | 3729797.463 | 396.10 |  |
| LOCATION L0000732 | VOLUME | 467062.763 | 3729795.640 | 396.01 |  |
| LOCATION L0000733 | VOLUME | 467054.461 | 3729793.817 | 396.02 |  |
| LOCATION L0000734 | VOLUME | 467046.158 | 3729791.994 | 396.00 |  |
| LOCATION L0000735 | VOLUME | 467037.856 | 3729790.171 | 396.00 |  |

ResDPM

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0000736 | VOLUME | 467029.554 | 3729788.347 | 396.00 |
| LOCATION L0000737 | VOLUME | 467021.252 | 3729786.524 | 396.00 |
| LOCATION L0000738 | VOLUME | 467012.950 | 3729784.701 | 397.06 |
| LOCATION L0000739 | VOLUME | 467004.648 | 3729782.878 | 398.43 |
| LOCATION L0000740 | VOLUME | 466996.346 | 3729781.054 | 399.88 |
| LOCATION L0000741 | VOLUME | 466988.043 | 3729779.231 | 401.24 |
| LOCATION L0000742 | VOLUME | 466979.741 | 3729777.408 | 401.95 |
| LOCATION L0000743 | VOLUME | 466971.439 | 3729775.585 | 402.55 |
| LOCATION L0000744 | VOLUME | 466963.137 | 3729773.762 | 403.05 |
| LOCATION L0000745 | VOLUME | 466954.835 | 3729771.938 | 403.01 |
| LOCATION L0000746 | VOLUME | 466946.533 | 3729770.115 | 402.64 |
| LOCATION L0000747 | VOLUME | 466938.230 | 3729768.292 | 402.31 |
| LOCATION L0000748 | VOLUME | 466929.928 | 3729766.469 | 402.01 |
| LOCATION L0000749 | VOLUME | 466921.626 | 3729764.646 | 401.60 |
| LOCATION L0000750 | VOLUME | 466913.379 | 3729762.593 | 401.11 |
| LOCATION L0000751 | VOLUME | 466905.148 | 3729760.470 | 400.63 |
| LOCATION L0000752 | VOLUME | 466896.917 | 3729758.348 | 399.92 |
| LOCATION L0000753 | VOLUME | 466888.686 | 3729756.225 | 398.80 |
| LOCATION L0000754 | VOLUME | 466880.456 | 3729754.103 | 397.76 |
| LOCATION L0000755 | VOLUME | 466872.225 | 3729751.980 | 396.80 |
| LOCATION L0000756 | VOLUME | 466863.994 | 3729749.858 | 396.46 |
| LOCATION L0000757 | VOLUME | 466855.764 | 3729747.735 | 396.39 |
| LOCATION L0000758 | VOLUME | 466847.533 | 3729745.613 | 396.32 |
| LOCATION L0000759 | VOLUME | 466839.302 | 3729743.490 | 396.29 |
| LOCATION L0000760 | VOLUME | 466831.071 | 3729741.367 | 397.22 |
| LOCATION L0000761 | VOLUME | 466822.841 | 3729739.245 | 398.22 |
| LOCATION L0000762 | VOLUME | 466814.610 | 3729737.122 | 399.31 |
| LOCATION L0000763 | VOLUME | 466806.379 | 3729735.000 | 400.08 |
| LOCATION L0000764 | VOLUME | 466798.149 | 3729732.877 | 400.32 |
| LOCATION L0000765 | VOLUME | 466789.918 | 3729730.755 | 400.60 |
| LOCATION L0000766 | VOLUME | 466781.687 | 3729728.632 | 400.91 |
| LOCATION L0000767 | VOLUME | 466773.456 | 3729726.510 | 401.41 |
| LOCATION L0000768 | VOLUME | 466765.226 | 3729724.387 | 401.96 |
| LOCATION L0000769 | VOLUME | 466756.995 | 3729722.265 | 402.51 |
| LOCATION L0000770 | VOLUME | 466748.764 | 3729720.142 | 403.01 |
| LOCATION L0000771 | VOLUME | 466740.533 | 3729718.019 | 403.12 |

\*\* End of LINE VOLUME Source ID = SLINE3

\*\* Source Parameters \*\*

|                 |            |             |            |             |
|-----------------|------------|-------------|------------|-------------|
| SRCPARAM PAREA1 | 2.3635E-09 | 5.000       | 72         | 1.000       |
| AREAVERT PAREA1 | 467190.199 | 3730371.004 | 467293.010 | 3730368.225 |
| AREAVERT PAREA1 | 467329.133 | 3730364.057 | 467377.760 | 3730359.889 |
| AREAVERT PAREA1 | 467419.440 | 3730339.049 | 467462.509 | 3730302.926 |
| AREAVERT PAREA1 | 467484.739 | 3730276.529 | 467494.464 | 3730261.246 |
| AREAVERT PAREA1 | 467506.968 | 3730237.628 | 467518.083 | 3730209.841 |
| AREAVERT PAREA1 | 467519.472 | 3730180.665 | 467519.472 | 3730137.595 |
| AREAVERT PAREA1 | 467515.304 | 3730109.808 | 467513.915 | 3730094.526 |
| AREAVERT PAREA1 | 467515.304 | 3730073.686 | 467520.862 | 3730059.792 |
| AREAVERT PAREA1 | 467529.198 | 3730036.173 | 467531.976 | 3730029.227 |

ResDPM

|          |        |            |             |            |             |
|----------|--------|------------|-------------|------------|-------------|
| AREAVERT | PAREA1 | 467533.366 | 3730026.448 | 467543.091 | 3730013.944 |
| AREAVERT | PAREA1 | 467548.648 | 3730006.997 | 467562.542 | 3729990.325 |
| AREAVERT | PAREA1 | 467570.878 | 3729981.989 | 467579.214 | 3729970.874 |
| AREAVERT | PAREA1 | 467615.337 | 3729945.866 | 467625.062 | 3729934.752 |
| AREAVERT | PAREA1 | 467634.787 | 3729930.584 | 467651.460 | 3729925.026 |
| AREAVERT | PAREA1 | 467666.742 | 3729918.080 | 467693.140 | 3729909.743 |
| AREAVERT | PAREA1 | 467711.201 | 3729902.797 | 467745.935 | 3729895.850 |
| AREAVERT | PAREA1 | 467770.943 | 3729886.125 | 467787.615 | 3729876.399 |
| AREAVERT | PAREA1 | 467807.066 | 3729862.506 | 467816.791 | 3729848.613 |
| AREAVERT | PAREA1 | 467822.348 | 3729827.772 | 467826.516 | 3729816.658 |
| AREAVERT | PAREA1 | 467823.738 | 3729788.871 | 467823.738 | 3729777.756 |
| AREAVERT | PAREA1 | 467801.508 | 3729776.367 | 467773.721 | 3729776.367 |
| AREAVERT | PAREA1 | 467733.431 | 3729779.146 | 467676.468 | 3729780.535 |
| AREAVERT | PAREA1 | 467615.337 | 3729793.039 | 467579.214 | 3729802.764 |
| AREAVERT | PAREA1 | 467529.198 | 3729816.658 | 467509.747 | 3729834.719 |
| AREAVERT | PAREA1 | 467456.952 | 3729919.469 | 467347.194 | 3730005.608 |
| AREAVERT | PAREA1 | 467372.202 | 3730107.030 | 467373.592 | 3730132.038 |
| AREAVERT | PAREA1 | 467363.866 | 3730143.152 | 467349.973 | 3730159.825 |
| AREAVERT | PAREA1 | 467343.026 | 3730173.718 | 467334.690 | 3730190.390 |
| AREAVERT | PAREA1 | 467326.354 | 3730205.673 | 467313.850 | 3730225.123 |
| AREAVERT | PAREA1 | 467299.957 | 3730247.353 | 467295.789 | 3730269.582 |
| AREAVERT | PAREA1 | 467284.674 | 3730280.697 | 467281.895 | 3730295.980 |
| AREAVERT | PAREA1 | 467280.506 | 3730304.316 | 467276.338 | 3730315.431 |
| AREAVERT | PAREA1 | 467270.781 | 3730319.599 | 467265.223 | 3730326.545 |
| AREAVERT | PAREA1 | 467262.445 | 3730336.271 | 467256.887 | 3730340.439 |
| AREAVERT | PAREA1 | 467252.719 | 3730344.607 | 467245.772 | 3730348.775 |
| AREAVERT | PAREA1 | 467234.658 | 3730355.721 | 467213.818 | 3730361.279 |

\*\* LINE VOLUME Source ID = SLINE1

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0000464 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000465 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000466 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000467 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000468 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000469 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000470 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000471 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000472 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000473 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000474 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000475 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000476 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000477 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000478 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000479 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000480 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000481 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000482 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000483 | 0.00000001488 | 0.00 | 3.95 | 1.86 |

[illegible]

ResDPM

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0000532 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000533 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000534 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000535 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000536 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000537 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000538 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000539 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000540 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000541 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000542 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000543 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000544 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000545 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000546 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000547 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000548 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000549 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000550 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000551 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000552 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000553 | 0.00000001488 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000554 | 0.00000001488 | 0.00 | 3.95 | 1.86 |

\*\*

\*\* LINE VOLUME Source ID = SLINE2

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0000555 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000556 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000557 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000558 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000559 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000560 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000561 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000562 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000563 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000564 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000565 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000566 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000567 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000568 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000569 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000570 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000571 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000572 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000573 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000574 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000575 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000576 | 0.00000001473 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000577 | 0.00000001473 | 0.00 | 3.95 | 1.86 |

[illegible]

|          |          |              | ResDPM |      |      |
|----------|----------|--------------|--------|------|------|
| SRCPARAM | L0000626 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000627 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000628 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000629 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000630 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000631 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000632 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000633 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000634 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000635 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000636 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000637 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000638 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000639 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000640 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000641 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000642 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000643 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000644 | 0.0000001473 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000645 | 0.0000001473 | 0.00   | 3.95 | 1.86 |

\*\*

\*\* LINE VOLUME Source ID = SLINE3

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000646 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000647 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000648 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000649 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000650 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000651 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000652 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000653 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000654 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000655 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000656 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000657 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000658 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000659 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000660 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000661 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000662 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000663 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000664 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000665 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000666 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000667 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000668 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000669 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000670 | 0.0000000823 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000671 | 0.0000000823 | 0.00 | 3.95 | 1.86 |

[illegible]

[illegible]

|          |          |              | ResDPM |      |      |
|----------|----------|--------------|--------|------|------|
| SRCPARAM | L0000768 | 0.0000000823 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000769 | 0.0000000823 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000770 | 0.0000000823 | 0.00   | 3.95 | 1.86 |
| SRCPARAM | L0000771 | 0.0000000823 | 0.00   | 3.95 | 1.86 |

\*\* -----

URBANSRC ALL  
SRCGROUP ALL

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED ResDPM.rou

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE ..\elsi8.sfc

PROFFILE ..\elsi8.PFL

SURFDATA 3190 2008

UAIRDATA 3190 2008

SITEDATA 99999 2008

PROFBASE 406.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING

\*\* Auto-Generated Plotfiles

PLOTFILE ANNUAL ALL RESDPM.AD\AN00GALL.PLT 31

SUMMFILE ResDPM.sum

OU FINISHED

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

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

ResDPM  
A Total of 0 Fatal Error Message(s)  
A Total of 1 Warning Message(s)  
A Total of 0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W531 799 MEOPEN: CAUTION! Met Station ID Missing from SURFFILE for  
SURFDATA

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

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 12:36:49

PAGE 1  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* 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 309 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2100516.0 ; 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.

ResDPM

6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

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: 309 Source(s); 1 Source Group(s); and 13  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 308 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 OPENPIT source(s)

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

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*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) = 406.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 4.0 MB of RAM.

\*\*Detailed Error/Message File: ResDPM.err

# ResDPM

\*\*File for Summary of Results: ResDPM.sum

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:36:49

\*\*MODELOPTs: RegDFAULT CONC PAGE 2  
 ELEV URBAN

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

| INIT.    | URBAN  | NUMBER   | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    |
|----------|--------|----------|-------------|----------|-----------|----------|----------|----------|
| SZ       | SOURCE | EMISSION | RATE        |          |           | ELEV.    | HEIGHT   | SY       |
| ID       | SOURCE | SCALAR   | VARY        | X        | Y         | (METERS) | (METERS) | (METERS) |
| (METERS) |        | CATS.    | BY          | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) |
| L0000464 |        | 0        | 0.14880E-07 | 467256.0 | 3730355.2 | 501.5    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000465 |        | 0        | 0.14880E-07 | 467263.5 | 3730351.2 | 502.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000466 |        | 0        | 0.14880E-07 | 467271.0 | 3730347.2 | 504.8    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000467 |        | 0        | 0.14880E-07 | 467278.5 | 3730343.2 | 506.6    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000468 |        | 0        | 0.14880E-07 | 467286.0 | 3730339.2 | 508.4    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000469 |        | 0        | 0.14880E-07 | 467293.5 | 3730335.2 | 509.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000470 |        | 0        | 0.14880E-07 | 467301.0 | 3730331.2 | 511.0    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000471 |        | 0        | 0.14880E-07 | 467307.2 | 3730325.4 | 511.3    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000472 |        | 0        | 0.14880E-07 | 467313.5 | 3730319.7 | 511.7    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000473 |        | 0        | 0.14880E-07 | 467319.7 | 3730313.9 | 512.1    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000474 |        | 0        | 0.14880E-07 | 467326.0 | 3730308.2 | 512.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000475 |        | 0        | 0.14880E-07 | 467332.2 | 3730302.4 | 514.1    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000476 |        | 0        | 0.14880E-07 | 467338.5 | 3730296.7 | 515.5    | 0.00     | 3.95     |

|          |     | ResDPM |             |          |           |       |      |      |
|----------|-----|--------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000477 |     | 0      | 0.14880E-07 | 467344.8 | 3730290.9 | 517.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000478 |     | 0      | 0.14880E-07 | 467351.0 | 3730285.2 | 518.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000479 |     | 0      | 0.14880E-07 | 467357.3 | 3730279.4 | 519.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000480 |     | 0      | 0.14880E-07 | 467361.8 | 3730272.2 | 519.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000481 |     | 0      | 0.14880E-07 | 467366.2 | 3730264.9 | 518.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000482 |     | 0      | 0.14880E-07 | 467370.5 | 3730257.7 | 517.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000483 |     | 0      | 0.14880E-07 | 467374.9 | 3730250.4 | 516.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000484 |     | 0      | 0.14880E-07 | 467379.3 | 3730243.1 | 514.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000485 |     | 0      | 0.14880E-07 | 467383.7 | 3730235.8 | 512.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000486 |     | 0      | 0.14880E-07 | 467388.0 | 3730228.5 | 511.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000487 |     | 0      | 0.14880E-07 | 467392.4 | 3730221.2 | 509.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000488 |     | 0      | 0.14880E-07 | 467396.8 | 3730213.9 | 508.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000489 |     | 0      | 0.14880E-07 | 467400.0 | 3730206.1 | 506.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000490 |     | 0      | 0.14880E-07 | 467402.3 | 3730197.9 | 505.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000491 |     | 0      | 0.14880E-07 | 467404.6 | 3730189.8 | 503.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000492 |     | 0      | 0.14880E-07 | 467406.9 | 3730181.6 | 501.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000493 |     | 0      | 0.14880E-07 | 467409.2 | 3730173.4 | 499.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000494 |     | 0      | 0.14880E-07 | 467411.5 | 3730165.2 | 497.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000495 |     | 0      | 0.14880E-07 | 467413.9 | 3730157.1 | 495.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000496 |     | 0      | 0.14880E-07 | 467416.2 | 3730148.9 | 493.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000497 |     | 0      | 0.14880E-07 | 467418.5 | 3730140.7 | 491.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000498 |     | 0      | 0.14880E-07 | 467420.8 | 3730132.5 | 488.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000499 |     | 0      | 0.14880E-07 | 467423.1 | 3730124.3 | 486.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000500 |     | 0      | 0.14880E-07 | 467425.4 | 3730116.2 | 483.2 | 0.00 | 3.95 |

ResDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000501 |     | 0 | 0.14880E-07 | 467427.8 | 3730108.0 | 480.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000502 |     | 0 | 0.14880E-07 | 467430.1 | 3730099.8 | 477.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000503 |     | 0 | 0.14880E-07 | 467432.4 | 3730091.6 | 474.3 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:36:49

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000504 |     | 0 | 0.14880E-07 | 467434.6 | 3730083.4 | 471.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000505 |     | 0 | 0.14880E-07 | 467436.8 | 3730075.2 | 468.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000506 |     | 0 | 0.14880E-07 | 467439.0 | 3730067.0 | 466.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000507 |     | 0 | 0.14880E-07 | 467441.2 | 3730058.8 | 462.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000508 |     | 0 | 0.14880E-07 | 467443.3 | 3730050.6 | 458.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000509 |     | 0 | 0.14880E-07 | 467445.5 | 3730042.3 | 455.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000510 |     | 0 | 0.14880E-07 | 467447.7 | 3730034.1 | 451.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000511 |     | 0 | 0.14880E-07 | 467449.9 | 3730025.9 | 447.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000512 |     | 0 | 0.14880E-07 | 467452.1 | 3730017.7 | 443.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000513 |     | 0 | 0.14880E-07 | 467454.3 | 3730009.5 | 440.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000514 |     | 0 | 0.14880E-07 | 467458.3 | 3730002.3 | 437.0 | 0.00 | 3.95 |

|          |     | ResDPM |             |          |           |       |      |      |
|----------|-----|--------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000515 |     | 0      | 0.14880E-07 | 467464.1 | 3729996.1 | 434.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000516 |     | 0      | 0.14880E-07 | 467469.9 | 3729989.9 | 432.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000517 |     | 0      | 0.14880E-07 | 467475.8 | 3729983.7 | 430.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000518 |     | 0      | 0.14880E-07 | 467481.6 | 3729977.5 | 428.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000519 |     | 0      | 0.14880E-07 | 467487.4 | 3729971.3 | 427.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000520 |     | 0      | 0.14880E-07 | 467494.2 | 3729966.4 | 426.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000521 |     | 0      | 0.14880E-07 | 467501.6 | 3729962.1 | 426.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000522 |     | 0      | 0.14880E-07 | 467508.9 | 3729957.9 | 428.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000523 |     | 0      | 0.14880E-07 | 467516.3 | 3729953.7 | 430.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000524 |     | 0      | 0.14880E-07 | 467523.7 | 3729949.4 | 431.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000525 |     | 0      | 0.14880E-07 | 467531.1 | 3729945.2 | 433.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000526 |     | 0      | 0.14880E-07 | 467538.4 | 3729941.0 | 434.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000527 |     | 0      | 0.14880E-07 | 467545.8 | 3729936.7 | 434.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000528 |     | 0      | 0.14880E-07 | 467553.2 | 3729932.5 | 434.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000529 |     | 0      | 0.14880E-07 | 467560.4 | 3729928.0 | 434.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000530 |     | 0      | 0.14880E-07 | 467567.0 | 3729922.6 | 433.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000531 |     | 0      | 0.14880E-07 | 467573.6 | 3729917.3 | 432.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000532 |     | 0      | 0.14880E-07 | 467580.2 | 3729911.9 | 431.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000533 |     | 0      | 0.14880E-07 | 467586.8 | 3729906.6 | 430.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000534 |     | 0      | 0.14880E-07 | 467593.4 | 3729901.2 | 429.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000535 |     | 0      | 0.14880E-07 | 467600.0 | 3729895.9 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000536 |     | 0      | 0.14880E-07 | 467606.6 | 3729890.5 | 429.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000537 |     | 0      | 0.14880E-07 | 467613.2 | 3729885.1 | 429.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000538 |     | 0      | 0.14880E-07 | 467619.8 | 3729879.8 | 429.2 | 0.00 | 3.95 |

ResDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000539 |     | 0 | 0.14880E-07 | 467626.4 | 3729874.4 | 429.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000540 |     | 0 | 0.14880E-07 | 467633.0 | 3729869.1 | 429.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000541 |     | 0 | 0.14880E-07 | 467639.2 | 3729863.4 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000542 |     | 0 | 0.14880E-07 | 467644.9 | 3729857.0 | 428.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000543 |     | 0 | 0.14880E-07 | 467650.6 | 3729850.7 | 427.4 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:36:49

\*\*\*MODELOPTs: RegDFAULT CONC PAGE 4  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000544 |     | 0 | 0.14880E-07 | 467656.3 | 3729844.4 | 426.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000545 |     | 0 | 0.14880E-07 | 467662.0 | 3729838.1 | 425.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000546 |     | 0 | 0.14880E-07 | 467667.7 | 3729831.8 | 423.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000547 |     | 0 | 0.14880E-07 | 467673.7 | 3729825.8 | 423.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000548 |     | 0 | 0.14880E-07 | 467679.8 | 3729819.9 | 422.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000549 |     | 0 | 0.14880E-07 | 467685.8 | 3729813.9 | 422.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000550 |     | 0 | 0.14880E-07 | 467691.9 | 3729808.0 | 422.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000551 |     | 0 | 0.14880E-07 | 467698.0 | 3729802.0 | 421.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000552 |     | 0 | 0.14880E-07 | 467704.1 | 3729796.1 | 421.3 | 0.00 | 3.95 |

|          |     | ResDPM |             |          |           |       |      |      |
|----------|-----|--------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000553 |     | 0      | 0.14880E-07 | 467710.1 | 3729790.1 | 420.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000554 |     | 0      | 0.14880E-07 | 467716.2 | 3729784.2 | 420.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000555 |     | 0      | 0.14730E-06 | 467256.0 | 3730355.2 | 501.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000556 |     | 0      | 0.14730E-06 | 467263.5 | 3730351.2 | 502.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000557 |     | 0      | 0.14730E-06 | 467271.0 | 3730347.2 | 504.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000558 |     | 0      | 0.14730E-06 | 467278.5 | 3730343.2 | 506.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000559 |     | 0      | 0.14730E-06 | 467286.0 | 3730339.2 | 508.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000560 |     | 0      | 0.14730E-06 | 467293.5 | 3730335.2 | 509.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000561 |     | 0      | 0.14730E-06 | 467301.0 | 3730331.2 | 511.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000562 |     | 0      | 0.14730E-06 | 467307.2 | 3730325.4 | 511.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000563 |     | 0      | 0.14730E-06 | 467313.5 | 3730319.7 | 511.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000564 |     | 0      | 0.14730E-06 | 467319.7 | 3730313.9 | 512.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000565 |     | 0      | 0.14730E-06 | 467326.0 | 3730308.2 | 512.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000566 |     | 0      | 0.14730E-06 | 467332.2 | 3730302.4 | 514.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000567 |     | 0      | 0.14730E-06 | 467338.5 | 3730296.7 | 515.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000568 |     | 0      | 0.14730E-06 | 467344.8 | 3730290.9 | 517.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000569 |     | 0      | 0.14730E-06 | 467351.0 | 3730285.2 | 518.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000570 |     | 0      | 0.14730E-06 | 467357.3 | 3730279.4 | 519.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000571 |     | 0      | 0.14730E-06 | 467361.8 | 3730272.2 | 519.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000572 |     | 0      | 0.14730E-06 | 467366.2 | 3730264.9 | 518.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000573 |     | 0      | 0.14730E-06 | 467370.5 | 3730257.7 | 517.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000574 |     | 0      | 0.14730E-06 | 467374.9 | 3730250.4 | 516.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000575 |     | 0      | 0.14730E-06 | 467379.3 | 3730243.1 | 514.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000576 |     | 0      | 0.14730E-06 | 467383.7 | 3730235.8 | 512.9 | 0.00 | 3.95 |

ResDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000577 |     | 0 | 0.14730E-06 | 467388.0 | 3730228.5 | 511.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000578 |     | 0 | 0.14730E-06 | 467392.4 | 3730221.2 | 509.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000579 |     | 0 | 0.14730E-06 | 467396.8 | 3730213.9 | 508.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000580 |     | 0 | 0.14730E-06 | 467400.0 | 3730206.1 | 506.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000581 |     | 0 | 0.14730E-06 | 467402.3 | 3730197.9 | 505.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000582 |     | 0 | 0.14730E-06 | 467404.6 | 3730189.8 | 503.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000583 |     | 0 | 0.14730E-06 | 467406.9 | 3730181.6 | 501.1 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:36:49

\*\*\*MODELOPTs: RegDFAULT CONC PAGE 5  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000584 |     | 0 | 0.14730E-06 | 467409.2 | 3730173.4 | 499.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000585 |     | 0 | 0.14730E-06 | 467411.5 | 3730165.2 | 497.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000586 |     | 0 | 0.14730E-06 | 467413.9 | 3730157.1 | 495.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000587 |     | 0 | 0.14730E-06 | 467416.2 | 3730148.9 | 493.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000588 |     | 0 | 0.14730E-06 | 467418.5 | 3730140.7 | 491.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000589 |     | 0 | 0.14730E-06 | 467420.8 | 3730132.5 | 488.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000590 |     | 0 | 0.14730E-06 | 467423.1 | 3730124.3 | 486.1 | 0.00 | 3.95 |

|          |     | ResDPM |             |          |           |       |      |      |
|----------|-----|--------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000591 |     | 0      | 0.14730E-06 | 467425.4 | 3730116.2 | 483.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000592 |     | 0      | 0.14730E-06 | 467427.8 | 3730108.0 | 480.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000593 |     | 0      | 0.14730E-06 | 467430.1 | 3730099.8 | 477.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000594 |     | 0      | 0.14730E-06 | 467432.4 | 3730091.6 | 474.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000595 |     | 0      | 0.14730E-06 | 467434.6 | 3730083.4 | 471.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000596 |     | 0      | 0.14730E-06 | 467436.8 | 3730075.2 | 468.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000597 |     | 0      | 0.14730E-06 | 467439.0 | 3730067.0 | 466.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000598 |     | 0      | 0.14730E-06 | 467441.2 | 3730058.8 | 462.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000599 |     | 0      | 0.14730E-06 | 467443.3 | 3730050.6 | 458.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000600 |     | 0      | 0.14730E-06 | 467445.5 | 3730042.3 | 455.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000601 |     | 0      | 0.14730E-06 | 467447.7 | 3730034.1 | 451.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000602 |     | 0      | 0.14730E-06 | 467449.9 | 3730025.9 | 447.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000603 |     | 0      | 0.14730E-06 | 467452.1 | 3730017.7 | 443.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000604 |     | 0      | 0.14730E-06 | 467454.3 | 3730009.5 | 440.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000605 |     | 0      | 0.14730E-06 | 467458.3 | 3730002.3 | 437.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000606 |     | 0      | 0.14730E-06 | 467464.1 | 3729996.1 | 434.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000607 |     | 0      | 0.14730E-06 | 467469.9 | 3729989.9 | 432.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000608 |     | 0      | 0.14730E-06 | 467475.8 | 3729983.7 | 430.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000609 |     | 0      | 0.14730E-06 | 467481.6 | 3729977.5 | 428.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000610 |     | 0      | 0.14730E-06 | 467487.4 | 3729971.3 | 427.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000611 |     | 0      | 0.14730E-06 | 467494.2 | 3729966.4 | 426.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000612 |     | 0      | 0.14730E-06 | 467501.6 | 3729962.1 | 426.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000613 |     | 0      | 0.14730E-06 | 467508.9 | 3729957.9 | 428.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000614 |     | 0      | 0.14730E-06 | 467516.3 | 3729953.7 | 430.4 | 0.00 | 3.95 |

ResDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0000615 |     | 0 | 0.14730E-06 | 467523.7 | 3729949.4 | 431.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000616 |     | 0 | 0.14730E-06 | 467531.1 | 3729945.2 | 433.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000617 |     | 0 | 0.14730E-06 | 467538.4 | 3729941.0 | 434.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000618 |     | 0 | 0.14730E-06 | 467545.8 | 3729936.7 | 434.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000619 |     | 0 | 0.14730E-06 | 467553.2 | 3729932.5 | 434.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000620 |     | 0 | 0.14730E-06 | 467560.4 | 3729928.0 | 434.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000621 |     | 0 | 0.14730E-06 | 467567.0 | 3729922.6 | 433.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000622 |     | 0 | 0.14730E-06 | 467573.6 | 3729917.3 | 432.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000623 |     | 0 | 0.14730E-06 | 467580.2 | 3729911.9 | 431.8 | 0.00 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:36:49

\*\*MODELOPTs: RegDFAULT CONC PAGE 6  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| L0000624 |     | 0 | 0.14730E-06 | 467586.8 | 3729906.6 | 430.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000625 |     | 0 | 0.14730E-06 | 467593.4 | 3729901.2 | 429.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000626 |     | 0 | 0.14730E-06 | 467600.0 | 3729895.9 | 429.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000627 |     | 0 | 0.14730E-06 | 467606.6 | 3729890.5 | 429.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000628 |     | 0 | 0.14730E-06 | 467613.2 | 3729885.1 | 429.0 | 0.00 3.95 |

|          |     | ResDPM |             |          |           |       |      |      |
|----------|-----|--------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000629 |     | 0      | 0.14730E-06 | 467619.8 | 3729879.8 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000630 |     | 0      | 0.14730E-06 | 467626.4 | 3729874.4 | 429.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000631 |     | 0      | 0.14730E-06 | 467633.0 | 3729869.1 | 429.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000632 |     | 0      | 0.14730E-06 | 467639.2 | 3729863.4 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000633 |     | 0      | 0.14730E-06 | 467644.9 | 3729857.0 | 428.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000634 |     | 0      | 0.14730E-06 | 467650.6 | 3729850.7 | 427.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000635 |     | 0      | 0.14730E-06 | 467656.3 | 3729844.4 | 426.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000636 |     | 0      | 0.14730E-06 | 467662.0 | 3729838.1 | 425.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000637 |     | 0      | 0.14730E-06 | 467667.7 | 3729831.8 | 423.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000638 |     | 0      | 0.14730E-06 | 467673.7 | 3729825.8 | 423.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000639 |     | 0      | 0.14730E-06 | 467679.8 | 3729819.9 | 422.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000640 |     | 0      | 0.14730E-06 | 467685.8 | 3729813.9 | 422.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000641 |     | 0      | 0.14730E-06 | 467691.9 | 3729808.0 | 422.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000642 |     | 0      | 0.14730E-06 | 467698.0 | 3729802.0 | 421.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000643 |     | 0      | 0.14730E-06 | 467704.1 | 3729796.1 | 421.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000644 |     | 0      | 0.14730E-06 | 467710.1 | 3729790.1 | 420.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000645 |     | 0      | 0.14730E-06 | 467716.2 | 3729784.2 | 420.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000646 |     | 0      | 0.82300E-07 | 467769.4 | 3729733.1 | 414.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000647 |     | 0      | 0.82300E-07 | 467761.2 | 3729735.1 | 414.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000648 |     | 0      | 0.82300E-07 | 467752.9 | 3729737.0 | 414.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000649 |     | 0      | 0.82300E-07 | 467744.6 | 3729738.9 | 414.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000650 |     | 0      | 0.82300E-07 | 467736.3 | 3729740.9 | 414.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000651 |     | 0      | 0.82300E-07 | 467728.0 | 3729742.8 | 414.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000652 |     | 0      | 0.82300E-07 | 467719.8 | 3729744.8 | 414.7 | 0.00 | 3.95 |

ResDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000653 |     | 0 | 0.82300E-07 | 467712.4 | 3729749.0 | 414.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000654 |     | 0 | 0.82300E-07 | 467705.1 | 3729753.3 | 415.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000655 |     | 0 | 0.82300E-07 | 467697.7 | 3729757.6 | 414.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000656 |     | 0 | 0.82300E-07 | 467690.4 | 3729761.9 | 414.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000657 |     | 0 | 0.82300E-07 | 467682.9 | 3729766.0 | 414.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000658 |     | 0 | 0.82300E-07 | 467675.5 | 3729770.1 | 414.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000659 |     | 0 | 0.82300E-07 | 467668.1 | 3729774.2 | 414.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000660 |     | 0 | 0.82300E-07 | 467660.7 | 3729778.4 | 413.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000661 |     | 0 | 0.82300E-07 | 467653.7 | 3729783.2 | 413.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000662 |     | 0 | 0.82300E-07 | 467645.9 | 3729786.2 | 413.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000663 |     | 0 | 0.82300E-07 | 467637.6 | 3729788.0 | 412.8 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:36:49

\*\*MODELOPTs: RegDFAULT CONC PAGE 7  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000664 |     | 0 | 0.82300E-07 | 467629.4 | 3729790.2 | 412.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000665 |     | 0 | 0.82300E-07 | 467621.7 | 3729793.7 | 412.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000666 |     | 0 | 0.82300E-07 | 467613.9 | 3729797.2 | 411.7 | 0.00 | 3.95 |

|          |     | ResDPM |             |          |           |       |      |      |
|----------|-----|--------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000667 |     | 0      | 0.82300E-07 | 467606.2 | 3729800.7 | 411.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000668 |     | 0      | 0.82300E-07 | 467598.1 | 3729802.7 | 411.2 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000669 |     | 0      | 0.82300E-07 | 467589.6 | 3729802.9 | 410.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000670 |     | 0      | 0.82300E-07 | 467581.1 | 3729803.1 | 410.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000671 |     | 0      | 0.82300E-07 | 467572.6 | 3729803.3 | 410.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000672 |     | 0      | 0.82300E-07 | 467564.1 | 3729803.6 | 410.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000673 |     | 0      | 0.82300E-07 | 467555.6 | 3729803.8 | 410.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000674 |     | 0      | 0.82300E-07 | 467547.1 | 3729804.0 | 410.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000675 |     | 0      | 0.82300E-07 | 467538.6 | 3729804.2 | 409.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000676 |     | 0      | 0.82300E-07 | 467530.1 | 3729804.5 | 409.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000677 |     | 0      | 0.82300E-07 | 467521.6 | 3729804.7 | 408.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000678 |     | 0      | 0.82300E-07 | 467513.1 | 3729805.0 | 406.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000679 |     | 0      | 0.82300E-07 | 467504.6 | 3729805.3 | 405.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000680 |     | 0      | 0.82300E-07 | 467496.1 | 3729805.6 | 404.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000681 |     | 0      | 0.82300E-07 | 467487.6 | 3729805.9 | 404.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000682 |     | 0      | 0.82300E-07 | 467479.1 | 3729806.2 | 403.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000683 |     | 0      | 0.82300E-07 | 467470.6 | 3729806.5 | 402.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000684 |     | 0      | 0.82300E-07 | 467462.1 | 3729806.8 | 402.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000685 |     | 0      | 0.82300E-07 | 467453.7 | 3729807.1 | 402.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000686 |     | 0      | 0.82300E-07 | 467445.2 | 3729807.4 | 402.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000687 |     | 0      | 0.82300E-07 | 467436.8 | 3729809.0 | 402.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000688 |     | 0      | 0.82300E-07 | 467428.6 | 3729811.0 | 401.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000689 |     | 0      | 0.82300E-07 | 467420.3 | 3729813.0 | 401.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000690 |     | 0      | 0.82300E-07 | 467412.1 | 3729815.1 | 401.4 | 0.00 | 3.95 |

ResDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000691 |     | 0 | 0.82300E-07 | 467403.8 | 3729817.1 | 401.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000692 |     | 0 | 0.82300E-07 | 467395.6 | 3729819.1 | 400.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000693 |     | 0 | 0.82300E-07 | 467387.3 | 3729821.1 | 400.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000694 |     | 0 | 0.82300E-07 | 467379.1 | 3729823.2 | 400.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000695 |     | 0 | 0.82300E-07 | 467370.8 | 3729825.2 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000696 |     | 0 | 0.82300E-07 | 467362.5 | 3729827.2 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000697 |     | 0 | 0.82300E-07 | 467354.3 | 3729829.2 | 399.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000698 |     | 0 | 0.82300E-07 | 467346.0 | 3729831.2 | 399.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000699 |     | 0 | 0.82300E-07 | 467337.8 | 3729833.3 | 399.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000700 |     | 0 | 0.82300E-07 | 467329.4 | 3729834.7 | 399.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000701 |     | 0 | 0.82300E-07 | 467321.0 | 3729835.9 | 398.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000702 |     | 0 | 0.82300E-07 | 467312.6 | 3729837.1 | 398.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000703 |     | 0 | 0.82300E-07 | 467304.2 | 3729838.3 | 398.3 | 0.00 | 3.95 |

1.86 YES  
 \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\ResDPM\ResDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:36:49

\*\*MODELOPTs: RegDFAULT CONC PAGE 8  
 ELEV URBAN

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

| INIT.    | URBAN       | NUMBER EMISSION RATE | BASE     | RELEASE   | INIT.    |
|----------|-------------|----------------------|----------|-----------|----------|
| SOURCE   | SCALAR VARY | PART. (GRAMS/SEC)    | ELEV.    | HEIGHT    | SY       |
| SZ       | ID          | CATS.                | (METERS) | (METERS)  | (METERS) |
| (METERS) | BY          |                      |          |           |          |
| L0000704 | 0           | 0.82300E-07          | 467295.7 | 3729839.5 | 398.1    |
|          |             |                      |          |           | 0.00     |
|          |             |                      |          |           | 3.95     |

|          |     | ResDPM |             |          |           |       |      |      |
|----------|-----|--------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000705 |     | 0      | 0.82300E-07 | 467287.3 | 3729839.0 | 398.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000706 |     | 0      | 0.82300E-07 | 467278.8 | 3729838.5 | 397.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000707 |     | 0      | 0.82300E-07 | 467270.3 | 3729837.9 | 397.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000708 |     | 0      | 0.82300E-07 | 467261.8 | 3729837.4 | 397.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000709 |     | 0      | 0.82300E-07 | 467253.3 | 3729836.9 | 397.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000710 |     | 0      | 0.82300E-07 | 467244.8 | 3729836.3 | 397.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000711 |     | 0      | 0.82300E-07 | 467236.4 | 3729835.8 | 398.1 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000712 |     | 0      | 0.82300E-07 | 467227.9 | 3729835.3 | 398.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000713 |     | 0      | 0.82300E-07 | 467219.4 | 3729834.8 | 398.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000714 |     | 0      | 0.82300E-07 | 467211.1 | 3729833.0 | 399.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000715 |     | 0      | 0.82300E-07 | 467202.9 | 3729830.8 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000716 |     | 0      | 0.82300E-07 | 467194.7 | 3729828.7 | 400.7 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000717 |     | 0      | 0.82300E-07 | 467186.4 | 3729826.5 | 401.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000718 |     | 0      | 0.82300E-07 | 467178.2 | 3729824.4 | 401.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000719 |     | 0      | 0.82300E-07 | 467170.0 | 3729822.2 | 402.0 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000720 |     | 0      | 0.82300E-07 | 467161.8 | 3729820.1 | 401.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000721 |     | 0      | 0.82300E-07 | 467153.5 | 3729817.9 | 401.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000722 |     | 0      | 0.82300E-07 | 467145.3 | 3729815.8 | 401.5 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000723 |     | 0      | 0.82300E-07 | 467137.1 | 3729813.6 | 401.3 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000724 |     | 0      | 0.82300E-07 | 467128.9 | 3729811.5 | 400.9 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000725 |     | 0      | 0.82300E-07 | 467120.7 | 3729809.3 | 400.6 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000726 |     | 0      | 0.82300E-07 | 467112.4 | 3729807.2 | 400.4 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000727 |     | 0      | 0.82300E-07 | 467104.2 | 3729805.0 | 399.8 | 0.00 | 3.95 |
| 1.86     | YES |        |             |          |           |       |      |      |
| L0000728 |     | 0      | 0.82300E-07 | 467096.0 | 3729802.9 | 398.8 | 0.00 | 3.95 |

# ResDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000729 |     | 0 | 0.82300E-07 | 467087.7 | 3729801.1 | 397.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000730 |     | 0 | 0.82300E-07 | 467079.4 | 3729799.3 | 396.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000731 |     | 0 | 0.82300E-07 | 467071.1 | 3729797.5 | 396.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000732 |     | 0 | 0.82300E-07 | 467062.8 | 3729795.6 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000733 |     | 0 | 0.82300E-07 | 467054.5 | 3729793.8 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000734 |     | 0 | 0.82300E-07 | 467046.2 | 3729792.0 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000735 |     | 0 | 0.82300E-07 | 467037.9 | 3729790.2 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000736 |     | 0 | 0.82300E-07 | 467029.6 | 3729788.3 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000737 |     | 0 | 0.82300E-07 | 467021.3 | 3729786.5 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000738 |     | 0 | 0.82300E-07 | 467013.0 | 3729784.7 | 397.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000739 |     | 0 | 0.82300E-07 | 467004.6 | 3729782.9 | 398.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000740 |     | 0 | 0.82300E-07 | 466996.3 | 3729781.1 | 399.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000741 |     | 0 | 0.82300E-07 | 466988.0 | 3729779.2 | 401.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000742 |     | 0 | 0.82300E-07 | 466979.7 | 3729777.4 | 401.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000743 |     | 0 | 0.82300E-07 | 466971.4 | 3729775.6 | 402.6 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*\*MODELOPTs: RegDFAULT CONC PAGE 9  
 ELEV URBAN

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

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

ResDPM

|          |   |             |          |           |       |      |      |
|----------|---|-------------|----------|-----------|-------|------|------|
| L0000744 | 0 | 0.82300E-07 | 466963.1 | 3729773.8 | 403.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000745 | 0 | 0.82300E-07 | 466954.8 | 3729771.9 | 403.0 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000746 | 0 | 0.82300E-07 | 466946.5 | 3729770.1 | 402.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000747 | 0 | 0.82300E-07 | 466938.2 | 3729768.3 | 402.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000748 | 0 | 0.82300E-07 | 466929.9 | 3729766.5 | 402.0 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000749 | 0 | 0.82300E-07 | 466921.6 | 3729764.6 | 401.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000750 | 0 | 0.82300E-07 | 466913.4 | 3729762.6 | 401.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000751 | 0 | 0.82300E-07 | 466905.1 | 3729760.5 | 400.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000752 | 0 | 0.82300E-07 | 466896.9 | 3729758.3 | 399.9 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000753 | 0 | 0.82300E-07 | 466888.7 | 3729756.2 | 398.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000754 | 0 | 0.82300E-07 | 466880.5 | 3729754.1 | 397.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000755 | 0 | 0.82300E-07 | 466872.2 | 3729752.0 | 396.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000756 | 0 | 0.82300E-07 | 466864.0 | 3729749.9 | 396.5 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000757 | 0 | 0.82300E-07 | 466855.8 | 3729747.7 | 396.4 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000758 | 0 | 0.82300E-07 | 466847.5 | 3729745.6 | 396.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000759 | 0 | 0.82300E-07 | 466839.3 | 3729743.5 | 396.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000760 | 0 | 0.82300E-07 | 466831.1 | 3729741.4 | 397.2 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000761 | 0 | 0.82300E-07 | 466822.8 | 3729739.2 | 398.2 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000762 | 0 | 0.82300E-07 | 466814.6 | 3729737.1 | 399.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000763 | 0 | 0.82300E-07 | 466806.4 | 3729735.0 | 400.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000764 | 0 | 0.82300E-07 | 466798.1 | 3729732.9 | 400.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000765 | 0 | 0.82300E-07 | 466789.9 | 3729730.8 | 400.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0000766 | 0 | 0.82300E-07 | 466781.7 | 3729728.6 | 400.9 | 0.00 | 3.95 |

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|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000767 |     | 0 | 0.82300E-07 | 466773.5 | 3729726.5 | 401.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000768 |     | 0 | 0.82300E-07 | 466765.2 | 3729724.4 | 402.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000769 |     | 0 | 0.82300E-07 | 466757.0 | 3729722.3 | 402.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000770 |     | 0 | 0.82300E-07 | 466748.8 | 3729720.1 | 403.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000771 |     | 0 | 0.82300E-07 | 466740.5 | 3729718.0 | 403.1 | 0.00 | 3.95 |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

## \*\*\* AREAPOLY SOURCE DATA \*\*\*

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

|        |     |   |             |          |           |       |      |    |
|--------|-----|---|-------------|----------|-----------|-------|------|----|
| PAREA1 |     | 0 | 0.23635E-08 | 467190.2 | 3730371.0 | 488.2 | 5.00 | 72 |
| 1.00   | YES |   |             |          |           |       |      |    |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

## \*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
 -----

SOURCE IDs  
 -----

ResDPM

|          |            |            |            |            |            |   |
|----------|------------|------------|------------|------------|------------|---|
| ALL      | PAREA1     | , L0000464 | , L0000465 | , L0000466 | , L0000467 | , |
| L0000468 | , L0000469 | , L0000470 | ,          |            |            |   |
|          | L0000471   | , L0000472 | , L0000473 | , L0000474 | , L0000475 | , |
| L0000476 | , L0000477 | , L0000478 | ,          |            |            |   |
|          | L0000479   | , L0000480 | , L0000481 | , L0000482 | , L0000483 | , |
| L0000484 | , L0000485 | , L0000486 | ,          |            |            |   |
|          | L0000487   | , L0000488 | , L0000489 | , L0000490 | , L0000491 | , |
| L0000492 | , L0000493 | , L0000494 | ,          |            |            |   |
|          | L0000495   | , L0000496 | , L0000497 | , L0000498 | , L0000499 | , |
| L0000500 | , L0000501 | , L0000502 | ,          |            |            |   |
|          | L0000503   | , L0000504 | , L0000505 | , L0000506 | , L0000507 | , |
| L0000508 | , L0000509 | , L0000510 | ,          |            |            |   |
|          | L0000511   | , L0000512 | , L0000513 | , L0000514 | , L0000515 | , |
| L0000516 | , L0000517 | , L0000518 | ,          |            |            |   |
|          | L0000519   | , L0000520 | , L0000521 | , L0000522 | , L0000523 | , |
| L0000524 | , L0000525 | , L0000526 | ,          |            |            |   |
|          | L0000527   | , L0000528 | , L0000529 | , L0000530 | , L0000531 | , |
| L0000532 | , L0000533 | , L0000534 | ,          |            |            |   |
|          | L0000535   | , L0000536 | , L0000537 | , L0000538 | , L0000539 | , |
| L0000540 | , L0000541 | , L0000542 | ,          |            |            |   |
|          | L0000543   | , L0000544 | , L0000545 | , L0000546 | , L0000547 | , |
| L0000548 | , L0000549 | , L0000550 | ,          |            |            |   |
|          | L0000551   | , L0000552 | , L0000553 | , L0000554 | , L0000555 | , |
| L0000556 | , L0000557 | , L0000558 | ,          |            |            |   |
|          | L0000559   | , L0000560 | , L0000561 | , L0000562 | , L0000563 | , |
| L0000564 | , L0000565 | , L0000566 | ,          |            |            |   |
|          | L0000567   | , L0000568 | , L0000569 | , L0000570 | , L0000571 | , |
| L0000572 | , L0000573 | , L0000574 | ,          |            |            |   |
|          | L0000575   | , L0000576 | , L0000577 | , L0000578 | , L0000579 | , |
| L0000580 | , L0000581 | , L0000582 | ,          |            |            |   |
|          | L0000583   | , L0000584 | , L0000585 | , L0000586 | , L0000587 | , |
| L0000588 | , L0000589 | , L0000590 | ,          |            |            |   |

# ResDPM

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L0000596      L0000591      , L0000592      , L0000593      , L0000594      , L0000595      ,
               , L0000597      , L0000598      ,
L0000604      L0000599      , L0000600      , L0000601      , L0000602      , L0000603      ,
               , L0000605      , L0000606      ,
L0000612      L0000607      , L0000608      , L0000609      , L0000610      , L0000611      ,
               , L0000613      , L0000614      ,
L0000620      L0000615      , L0000616      , L0000617      , L0000618      , L0000619      ,
               , L0000621      , L0000622      ,
♀ *** AERMOD - VERSION 15181 *** *** C:\Lakes\AERMOD
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\*\*MODELOPTs:    RegDFAULT CONC            PAGE 12  
                                          ELEV            URBAN

## \*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID  
 -----

SOURCE IDs  
 -----

```

L0000628      L0000623      , L0000624      , L0000625      , L0000626      , L0000627      ,
               , L0000629      , L0000630      ,
L0000636      L0000631      , L0000632      , L0000633      , L0000634      , L0000635      ,
               , L0000637      , L0000638      ,
L0000644      L0000639      , L0000640      , L0000641      , L0000642      , L0000643      ,
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L0000652      L0000647      , L0000648      , L0000649      , L0000650      , L0000651      ,
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L0000660      L0000655      , L0000656      , L0000657      , L0000658      , L0000659      ,
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L0000668      L0000663      , L0000664      , L0000665      , L0000666      , L0000667      ,
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L0000676      L0000671      , L0000672      , L0000673      , L0000674      , L0000675      ,
               , L0000677      , L0000678      ,

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# ResDPM

|          |                        |                          |                 |            |            |   |
|----------|------------------------|--------------------------|-----------------|------------|------------|---|
| L0000684 | L0000679<br>, L0000685 | , L0000680<br>, L0000686 | , L0000681<br>, | , L0000682 | , L0000683 | , |
| L0000692 | L0000687<br>, L0000693 | , L0000688<br>, L0000694 | , L0000689<br>, | , L0000690 | , L0000691 | , |
| L0000700 | L0000695<br>, L0000701 | , L0000696<br>, L0000702 | , L0000697<br>, | , L0000698 | , L0000699 | , |
| L0000708 | L0000703<br>, L0000709 | , L0000704<br>, L0000710 | , L0000705<br>, | , L0000706 | , L0000707 | , |
| L0000716 | L0000711<br>, L0000717 | , L0000712<br>, L0000718 | , L0000713<br>, | , L0000714 | , L0000715 | , |
| L0000724 | L0000719<br>, L0000725 | , L0000720<br>, L0000726 | , L0000721<br>, | , L0000722 | , L0000723 | , |
| L0000732 | L0000727<br>, L0000733 | , L0000728<br>, L0000734 | , L0000729<br>, | , L0000730 | , L0000731 | , |
| L0000740 | L0000735<br>, L0000741 | , L0000736<br>, L0000742 | , L0000737<br>, | , L0000738 | , L0000739 | , |
| L0000748 | L0000743<br>, L0000749 | , L0000744<br>, L0000750 | , L0000745<br>, | , L0000746 | , L0000747 | , |
| L0000756 | L0000751<br>, L0000757 | , L0000752<br>, L0000758 | , L0000753<br>, | , L0000754 | , L0000755 | , |
| L0000764 | L0000759<br>, L0000765 | , L0000760<br>, L0000766 | , L0000761<br>, | , L0000762 | , L0000763 | , |
|          | L0000767               | , L0000768               | , L0000769      | , L0000770 | , L0000771 | , |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

\*\*\*

URBAN ID URBAN POP

SOURCE IDs

ResDPM

|          |            |            |            |            |            |
|----------|------------|------------|------------|------------|------------|
| -----    | -----      |            |            |            | -----      |
| L0000467 | 2100516.   | PAREA1     | , L0000464 | , L0000465 | , L0000466 |
| L0000470 | , L0000468 | , L0000469 | ,          |            |            |
|          | ,          |            |            |            |            |
| L0000476 | L0000471   | , L0000472 | , L0000473 | , L0000474 | , L0000475 |
|          | , L0000477 | , L0000478 | ,          |            |            |
| L0000484 | L0000479   | , L0000480 | , L0000481 | , L0000482 | , L0000483 |
|          | , L0000485 | , L0000486 | ,          |            |            |
| L0000492 | L0000487   | , L0000488 | , L0000489 | , L0000490 | , L0000491 |
|          | , L0000493 | , L0000494 | ,          |            |            |
| L0000500 | L0000495   | , L0000496 | , L0000497 | , L0000498 | , L0000499 |
|          | , L0000501 | , L0000502 | ,          |            |            |
| L0000508 | L0000503   | , L0000504 | , L0000505 | , L0000506 | , L0000507 |
|          | , L0000509 | , L0000510 | ,          |            |            |
| L0000516 | L0000511   | , L0000512 | , L0000513 | , L0000514 | , L0000515 |
|          | , L0000517 | , L0000518 | ,          |            |            |
| L0000524 | L0000519   | , L0000520 | , L0000521 | , L0000522 | , L0000523 |
|          | , L0000525 | , L0000526 | ,          |            |            |
| L0000532 | L0000527   | , L0000528 | , L0000529 | , L0000530 | , L0000531 |
|          | , L0000533 | , L0000534 | ,          |            |            |
| L0000540 | L0000535   | , L0000536 | , L0000537 | , L0000538 | , L0000539 |
|          | , L0000541 | , L0000542 | ,          |            |            |
| L0000548 | L0000543   | , L0000544 | , L0000545 | , L0000546 | , L0000547 |
|          | , L0000549 | , L0000550 | ,          |            |            |
| L0000556 | L0000551   | , L0000552 | , L0000553 | , L0000554 | , L0000555 |
|          | , L0000557 | , L0000558 | ,          |            |            |
| L0000564 | L0000559   | , L0000560 | , L0000561 | , L0000562 | , L0000563 |
|          | , L0000565 | , L0000566 | ,          |            |            |
| L0000572 | L0000567   | , L0000568 | , L0000569 | , L0000570 | , L0000571 |
|          | , L0000573 | , L0000574 | ,          |            |            |
| L0000580 | L0000575   | , L0000576 | , L0000577 | , L0000578 | , L0000579 |
|          | , L0000581 | , L0000582 | ,          |            |            |

# ResDPM

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L0000588      L0000583      , L0000584      , L0000585      , L0000586      , L0000587      ,
              , L0000589      , L0000590      ,
L0000596      L0000591      , L0000592      , L0000593      , L0000594      , L0000595      ,
              , L0000597      , L0000598      ,
L0000604      L0000599      , L0000600      , L0000601      , L0000602      , L0000603      ,
              , L0000605      , L0000606      ,
L0000612      L0000607      , L0000608      , L0000609      , L0000610      , L0000611      ,
              , L0000613      , L0000614      ,
L0000620      L0000615      , L0000616      , L0000617      , L0000618      , L0000619      ,
              , L0000621      , L0000622      ,
♀ *** AERMOD - VERSION 15181 *** *** C:\Lakes\AERMOD
View\NicholsMine\ResDPM\ResDPM.isc *** 09/11/15
*** AERMET - VERSION 14134 *** ***
*** 12:36:49

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**MODELOPTs:  RegDFAULT CONC      PAGE 14
              ELEV      URBAN

```

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

\*\*\*

| URBAN ID | URBAN POP           | SOURCE IDs                                             |
|----------|---------------------|--------------------------------------------------------|
| -----    | -----               | -----                                                  |
| L0000628 | L0000623 , L0000629 | L0000624 , L0000630 , L0000625 , L0000626 , L0000627 , |
| L0000636 | L0000631 , L0000637 | L0000632 , L0000638 , L0000633 , L0000634 , L0000635 , |
| L0000644 | L0000639 , L0000645 | L0000640 , L0000646 , L0000641 , L0000642 , L0000643 , |
| L0000652 | L0000647 , L0000653 | L0000648 , L0000654 , L0000649 , L0000650 , L0000651 , |
| L0000660 | L0000655 , L0000661 | L0000656 , L0000662 , L0000657 , L0000658 , L0000659 , |
| L0000668 | L0000663 , L0000669 | L0000664 , L0000670 , L0000665 , L0000666 , L0000667 , |

ResDPM

|          |                        |                          |                 |            |            |   |
|----------|------------------------|--------------------------|-----------------|------------|------------|---|
| L0000676 | L0000671<br>, L0000677 | , L0000672<br>, L0000678 | , L0000673<br>, | , L0000674 | , L0000675 | , |
| L0000684 | L0000679<br>, L0000685 | , L0000680<br>, L0000686 | , L0000681<br>, | , L0000682 | , L0000683 | , |
| L0000692 | L0000687<br>, L0000693 | , L0000688<br>, L0000694 | , L0000689<br>, | , L0000690 | , L0000691 | , |
| L0000700 | L0000695<br>, L0000701 | , L0000696<br>, L0000702 | , L0000697<br>, | , L0000698 | , L0000699 | , |
| L0000708 | L0000703<br>, L0000709 | , L0000704<br>, L0000710 | , L0000705<br>, | , L0000706 | , L0000707 | , |
| L0000716 | L0000711<br>, L0000717 | , L0000712<br>, L0000718 | , L0000713<br>, | , L0000714 | , L0000715 | , |
| L0000724 | L0000719<br>, L0000725 | , L0000720<br>, L0000726 | , L0000721<br>, | , L0000722 | , L0000723 | , |
| L0000732 | L0000727<br>, L0000733 | , L0000728<br>, L0000734 | , L0000729<br>, | , L0000730 | , L0000731 | , |
| L0000740 | L0000735<br>, L0000741 | , L0000736<br>, L0000742 | , L0000737<br>, | , L0000738 | , L0000739 | , |
| L0000748 | L0000743<br>, L0000749 | , L0000744<br>, L0000750 | , L0000745<br>, | , L0000746 | , L0000747 | , |
| L0000756 | L0000751<br>, L0000757 | , L0000752<br>, L0000758 | , L0000753<br>, | , L0000754 | , L0000755 | , |
| L0000764 | L0000759<br>, L0000765 | , L0000760<br>, L0000766 | , L0000761<br>, | , L0000762 | , L0000763 | , |
|          | L0000767               | , L0000768               | , L0000769      | , L0000770 | , L0000771 | , |

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\*\*\*

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(METERS)

```

⌘ *** AERMOD - VERSION 15181 ***      *** C:\Lakes\AERMOD
View\NicholsMine\ResDPM\ResDPM.isc      ***      09/11/15
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\*\*\* METEOROLOGICAL DAYS SELECTED FOR  
(1=YES; 0=NO)

[illegible]

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# ResDPM

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

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

DATA \*\*\*

Surface file: ..\elsi8.sfc  
Met Version: 14134  
Profile file: ..\elsi8.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3190  
Name: UNKNOWN

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2008

Year: 2008

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     |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 284.2  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 02 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 03 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 04 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 06 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |       |

| ResDPM |        |      |   |    |        |        |        |        |       |       |          |      |      |
|--------|--------|------|---|----|--------|--------|--------|--------|-------|-------|----------|------|------|
| 08     | 01     | 01   | 1 | 07 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 08 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 0.54   | 999.00 | 999. |   |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 09 | 27.2   | -9.000 | -9.000 | -9.000 | 60.   | -999. | -99999.0 | 0.23 | 1.00 |
| 0.33   | 999.00 | 999. |   |    | -9.0   | 285.9  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 10 | 74.6   | -9.000 | -9.000 | -9.000 | 157.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.25   | 999.00 | 999. |   |    | -9.0   | 288.1  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 11 | 107.4  | -9.000 | -9.000 | -9.000 | 375.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.23   | 999.00 | 999. |   |    | -9.0   | 289.9  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 12 | 122.7  | -9.000 | -9.000 | -9.000 | 578.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.22   | 999.00 | 999. |   |    | -9.0   | 289.9  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 13 | 121.3  | -9.000 | -9.000 | -9.000 | 714.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.22   | 999.00 | 999. |   |    | -9.0   | 291.4  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 14 | 102.1  | -9.000 | -9.000 | -9.000 | 763.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.23   | 999.00 | 999. |   |    | -9.0   | 292.0  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 15 | 65.8   | -9.000 | -9.000 | -9.000 | 792.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.27   | 999.00 | 999. |   |    | -9.0   | 291.4  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 16 | 16.0   | -9.000 | -9.000 | -9.000 | 798.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.36   | 999.00 | 999. |   |    | -9.0   | 290.4  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 17 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 0.63   | 999.00 | 999. |   |    | -9.0   | 288.8  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 18 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 287.5  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 19 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 286.4  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 20 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 285.4  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 21 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 284.2  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 22 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 23 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |
| 08     | 01     | 01   | 1 | 24 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00   | 999.00 | 999. |   |    | -9.0   | 282.5  | 5.5    |        |       |       |          |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 08 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 284.3   | 99.0   | -99.00 | -99.00 |
| 08 | 01 | 01 | 01 | 9.1    | 1 | -999. | -99.00 | -999.0  | 99.0   | -99.00 | -99.00 |

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

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ResDPM

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREA1 , L0000464  
, L0000465 , L0000466 , L0000467 ,  
L0000468 , L0000469 , L0000470 , L0000471 , L0000472  
, L0000473 , L0000474 , L0000475 ,  
L0000476 , L0000477 , L0000478 , L0000479 , L0000480  
, L0000481 , L0000482 , L0000483 ,  
L0000484 , L0000485 , L0000486 , L0000487 , L0000488  
, L0000489 , L0000490 , . . . ,

\*\*\* 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        |         |             |
| 467947.51   | 3729755.56  | 0.00233 | 467906.64   |
| 3729686.69  | 0.00300     |         |             |
| 467907.93   | 3729662.23  | 0.00285 | 467904.07   |
| 3729595.30  | 0.00251     |         |             |
| 467931.75   | 3729591.89  | 0.00228 | 467691.85   |
| 3729489.42  | 0.00207     |         |             |
| 467579.06   | 3729454.38  | 0.00161 | 467520.10   |
| 3729393.71  | 0.00124     |         |             |
| 467463.70   | 3729319.37  | 0.00096 | 467649.98   |
| 3729387.73  | 0.00142     |         |             |
| 467709.79   | 3729097.21  | 0.00073 | 467824.29   |
| 3728994.67  | 0.00064     |         |             |
| 467904.62   | 3729541.54  | 0.00220 |             |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

# ResDPM

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  |         |  | 0.00300      | AT ( | 467906.64,        | 3729686.69, |
| 415.21,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 2ND HIGHEST VALUE IS  |         |  | 0.00285      | AT ( | 467907.93,        | 3729662.23, |
| 415.79,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 3RD HIGHEST VALUE IS  |         |  | 0.00251      | AT ( | 467904.07,        | 3729595.30, |
| 416.00,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 4TH HIGHEST VALUE IS  |         |  | 0.00233      | AT ( | 467947.51,        | 3729755.56, |
| 421.44,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 5TH HIGHEST VALUE IS  |         |  | 0.00228      | AT ( | 467931.75,        | 3729591.89, |
| 416.40,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 6TH HIGHEST VALUE IS  |         |  | 0.00220      | AT ( | 467904.62,        | 3729541.54, |
| 415.26,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 7TH HIGHEST VALUE IS  |         |  | 0.00207      | AT ( | 467691.85,        | 3729489.42, |
| 409.87,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 8TH HIGHEST VALUE IS  |         |  | 0.00161      | AT ( | 467579.06,        | 3729454.38, |
| 408.00,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 9TH HIGHEST VALUE IS  |         |  | 0.00142      | AT ( | 467649.98,        | 3729387.73, |
| 407.39,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |
|                      | 10TH HIGHEST VALUE IS |         |  | 0.00124      | AT ( | 467520.10,        | 3729393.71, |
| 406.39,              | 635.00, 0.00) DC      |         |  |              |      |                   |             |

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

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

ResDPM

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

A Total of                0 Fatal Error Message(s)  
A Total of                1 Warning Message(s)  
A Total of                1916 Informational Message(s)  
  
A Total of                43848 Hours Were Processed  
  
A Total of                10 Calm Hours Identified  
  
A Total of                1906 Missing Hours Identified ( 4.35 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W531        799        MEOPEN: CAUTION! Met Station ID Missing from SURFFILE for  
SURFDATA

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

# WorkerDPM

```
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.0.0
** Lakes Environmental Software Inc.
** Date: 9/11/2015
** File: C:\Lakes\AERMOD View\NicholsMine\WorkerDPM\WorkerDPM.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\NicholsMine\WorkerDPM\WorkerDPM.isc
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 2100516
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL WorkerDPM.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA1      AREAPOLY    467190.199    3730371.004      488.240
** DESCRSRC On-Site Equipment
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-Site Idling
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.133E-06
** Vertical Dimension = 4.00
** SZINIT = 1.86
** Nodes = 11
```

WorkerDPM

\*\* 467252.240, 3730357.231, 502.79, 0.00, 3.95  
 \*\* 467301.041, 3730331.128, 509.58, 0.00, 3.95  
 \*\* 467357.787, 3730278.922, 517.06, 0.00, 3.95  
 \*\* 467398.643, 3730210.828, 508.31, 0.00, 3.95  
 \*\* 467432.691, 3730090.528, 475.46, 0.00, 3.95  
 \*\* 467455.389, 3730005.410, 436.97, 0.00, 3.95  
 \*\* 467489.436, 3729969.093, 426.89, 0.00, 3.95  
 \*\* 467558.665, 3729929.371, 429.01, 0.00, 3.95  
 \*\* 467636.974, 3729865.816, 424.62, 0.00, 3.95  
 \*\* 467668.751, 3729830.634, 421.78, 0.00, 3.95  
 \*\* 467720.957, 3729779.563, 415.97, 0.00, 3.95

\*\* -----  
 LOCATION L0001080 VOLUME 467255.988 3730355.226 501.52  
 LOCATION L0001081 VOLUME 467263.483 3730351.217 502.88  
 LOCATION L0001082 VOLUME 467270.978 3730347.208 504.79  
 LOCATION L0001083 VOLUME 467278.473 3730343.199 506.62  
 LOCATION L0001084 VOLUME 467285.969 3730339.190 508.40  
 LOCATION L0001085 VOLUME 467293.464 3730335.181 509.90  
 LOCATION L0001086 VOLUME 467300.959 3730331.172 511.00  
 LOCATION L0001087 VOLUME 467307.228 3730325.436 511.31  
 LOCATION L0001088 VOLUME 467313.483 3730319.681 511.68  
 LOCATION L0001089 VOLUME 467319.739 3730313.926 512.14  
 LOCATION L0001090 VOLUME 467325.994 3730308.171 512.86  
 LOCATION L0001091 VOLUME 467332.250 3730302.416 514.07  
 LOCATION L0001092 VOLUME 467338.505 3730296.661 515.55  
 LOCATION L0001093 VOLUME 467344.760 3730290.906 517.11  
 LOCATION L0001094 VOLUME 467351.016 3730285.151 518.61  
 LOCATION L0001095 VOLUME 467357.271 3730279.396 519.54  
 LOCATION L0001096 VOLUME 467361.800 3730272.234 519.18  
 LOCATION L0001097 VOLUME 467366.173 3730264.945 518.25  
 LOCATION L0001098 VOLUME 467370.546 3730257.657 517.25  
 LOCATION L0001099 VOLUME 467374.919 3730250.368 516.18  
 LOCATION L0001100 VOLUME 467379.292 3730243.079 514.84  
 LOCATION L0001101 VOLUME 467383.666 3730235.791 512.92  
 LOCATION L0001102 VOLUME 467388.039 3730228.502 511.18  
 LOCATION L0001103 VOLUME 467392.412 3730221.213 509.66  
 LOCATION L0001104 VOLUME 467396.785 3730213.924 508.40  
 LOCATION L0001105 VOLUME 467399.975 3730206.124 506.88  
 LOCATION L0001106 VOLUME 467402.289 3730197.945 505.01  
 LOCATION L0001107 VOLUME 467404.604 3730189.766 503.09  
 LOCATION L0001108 VOLUME 467406.919 3730181.588 501.11  
 LOCATION L0001109 VOLUME 467409.234 3730173.409 499.13  
 LOCATION L0001110 VOLUME 467411.548 3730165.230 497.29  
 LOCATION L0001111 VOLUME 467413.863 3730157.051 495.44  
 LOCATION L0001112 VOLUME 467416.178 3730148.873 493.39  
 LOCATION L0001113 VOLUME 467418.493 3730140.694 491.16  
 LOCATION L0001114 VOLUME 467420.807 3730132.515 488.76  
 LOCATION L0001115 VOLUME 467423.122 3730124.336 486.12

|                   |        |            | WorkerDPM   |        |  |
|-------------------|--------|------------|-------------|--------|--|
| LOCATION L0001116 | VOLUME | 467425.437 | 3730116.158 | 483.16 |  |
| LOCATION L0001117 | VOLUME | 467427.751 | 3730107.979 | 480.19 |  |
| LOCATION L0001118 | VOLUME | 467430.066 | 3730099.800 | 477.23 |  |
| LOCATION L0001119 | VOLUME | 467432.381 | 3730091.621 | 474.31 |  |
| LOCATION L0001120 | VOLUME | 467434.588 | 3730083.413 | 471.49 |  |
| LOCATION L0001121 | VOLUME | 467436.778 | 3730075.200 | 468.78 |  |
| LOCATION L0001122 | VOLUME | 467438.968 | 3730066.987 | 466.20 |  |
| LOCATION L0001123 | VOLUME | 467441.158 | 3730058.774 | 462.66 |  |
| LOCATION L0001124 | VOLUME | 467443.348 | 3730050.561 | 458.86 |  |
| LOCATION L0001125 | VOLUME | 467445.538 | 3730042.348 | 455.11 |  |
| LOCATION L0001126 | VOLUME | 467447.729 | 3730034.135 | 451.34 |  |
| LOCATION L0001127 | VOLUME | 467449.919 | 3730025.922 | 447.49 |  |
| LOCATION L0001128 | VOLUME | 467452.109 | 3730017.709 | 443.71 |  |
| LOCATION L0001129 | VOLUME | 467454.299 | 3730009.496 | 440.02 |  |
| LOCATION L0001130 | VOLUME | 467458.310 | 3730002.294 | 437.04 |  |
| LOCATION L0001131 | VOLUME | 467464.123 | 3729996.093 | 434.75 |  |
| LOCATION L0001132 | VOLUME | 467469.937 | 3729989.892 | 432.61 |  |
| LOCATION L0001133 | VOLUME | 467475.750 | 3729983.691 | 430.45 |  |
| LOCATION L0001134 | VOLUME | 467481.564 | 3729977.490 | 428.45 |  |
| LOCATION L0001135 | VOLUME | 467487.377 | 3729971.289 | 426.98 |  |
| LOCATION L0001136 | VOLUME | 467494.198 | 3729966.360 | 426.36 |  |
| LOCATION L0001137 | VOLUME | 467501.570 | 3729962.130 | 426.83 |  |
| LOCATION L0001138 | VOLUME | 467508.943 | 3729957.900 | 428.74 |  |
| LOCATION L0001139 | VOLUME | 467516.315 | 3729953.670 | 430.45 |  |
| LOCATION L0001140 | VOLUME | 467523.688 | 3729949.440 | 431.94 |  |
| LOCATION L0001141 | VOLUME | 467531.061 | 3729945.209 | 433.18 |  |
| LOCATION L0001142 | VOLUME | 467538.433 | 3729940.979 | 433.98 |  |
| LOCATION L0001143 | VOLUME | 467545.806 | 3729936.749 | 434.57 |  |
| LOCATION L0001144 | VOLUME | 467553.179 | 3729932.519 | 434.95 |  |
| LOCATION L0001145 | VOLUME | 467560.354 | 3729928.001 | 434.91 |  |
| LOCATION L0001146 | VOLUME | 467566.953 | 3729922.644 | 433.86 |  |
| LOCATION L0001147 | VOLUME | 467573.553 | 3729917.288 | 432.82 |  |
| LOCATION L0001148 | VOLUME | 467580.153 | 3729911.931 | 431.78 |  |
| LOCATION L0001149 | VOLUME | 467586.753 | 3729906.575 | 430.74 |  |
| LOCATION L0001150 | VOLUME | 467593.353 | 3729901.218 | 429.82 |  |
| LOCATION L0001151 | VOLUME | 467599.953 | 3729895.862 | 429.23 |  |
| LOCATION L0001152 | VOLUME | 467606.553 | 3729890.506 | 428.96 |  |
| LOCATION L0001153 | VOLUME | 467613.153 | 3729885.149 | 429.01 |  |
| LOCATION L0001154 | VOLUME | 467619.753 | 3729879.793 | 429.16 |  |
| LOCATION L0001155 | VOLUME | 467626.352 | 3729874.436 | 429.50 |  |
| LOCATION L0001156 | VOLUME | 467632.952 | 3729869.080 | 429.60 |  |
| LOCATION L0001157 | VOLUME | 467639.200 | 3729863.352 | 429.24 |  |
| LOCATION L0001158 | VOLUME | 467644.897 | 3729857.044 | 428.28 |  |
| LOCATION L0001159 | VOLUME | 467650.595 | 3729850.736 | 427.39 |  |
| LOCATION L0001160 | VOLUME | 467656.292 | 3729844.428 | 426.24 |  |
| LOCATION L0001161 | VOLUME | 467661.989 | 3729838.120 | 425.09 |  |
| LOCATION L0001162 | VOLUME | 467667.687 | 3729831.812 | 423.94 |  |
| LOCATION L0001163 | VOLUME | 467673.692 | 3729825.800 | 422.96 |  |

|                   |        | WorkerDPM  |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0001164 | VOLUME | 467679.768 | 3729819.856 | 422.78 |
| LOCATION L0001165 | VOLUME | 467685.844 | 3729813.912 | 422.40 |
| LOCATION L0001166 | VOLUME | 467691.920 | 3729807.968 | 422.03 |
| LOCATION L0001167 | VOLUME | 467697.997 | 3729802.024 | 421.65 |
| LOCATION L0001168 | VOLUME | 467704.073 | 3729796.080 | 421.27 |
| LOCATION L0001169 | VOLUME | 467710.149 | 3729790.136 | 420.87 |
| LOCATION L0001170 | VOLUME | 467716.225 | 3729784.192 | 420.12 |

\*\* End of LINE VOLUME Source ID = SLINE1

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC On-Site Travel

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00001707

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 11

\*\* 467252.240, 3730357.231, 502.79, 0.00, 3.95

\*\* 467301.041, 3730331.128, 509.58, 0.00, 3.95

\*\* 467357.787, 3730278.922, 517.06, 0.00, 3.95

\*\* 467398.643, 3730210.828, 508.31, 0.00, 3.95

\*\* 467432.691, 3730090.528, 475.46, 0.00, 3.95

\*\* 467455.389, 3730005.410, 436.97, 0.00, 3.95

\*\* 467489.436, 3729969.093, 426.89, 0.00, 3.95

\*\* 467558.665, 3729929.371, 429.01, 0.00, 3.95

\*\* 467636.974, 3729865.816, 424.62, 0.00, 3.95

\*\* 467668.751, 3729830.634, 421.78, 0.00, 3.95

\*\* 467720.957, 3729779.563, 415.97, 0.00, 3.95

\*\* -----

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0001171 | VOLUME | 467255.988 | 3730355.226 | 501.52 |
| LOCATION L0001172 | VOLUME | 467263.483 | 3730351.217 | 502.88 |
| LOCATION L0001173 | VOLUME | 467270.978 | 3730347.208 | 504.79 |
| LOCATION L0001174 | VOLUME | 467278.473 | 3730343.199 | 506.62 |
| LOCATION L0001175 | VOLUME | 467285.969 | 3730339.190 | 508.40 |
| LOCATION L0001176 | VOLUME | 467293.464 | 3730335.181 | 509.90 |
| LOCATION L0001177 | VOLUME | 467300.959 | 3730331.172 | 511.00 |
| LOCATION L0001178 | VOLUME | 467307.228 | 3730325.436 | 511.31 |
| LOCATION L0001179 | VOLUME | 467313.483 | 3730319.681 | 511.68 |
| LOCATION L0001180 | VOLUME | 467319.739 | 3730313.926 | 512.14 |
| LOCATION L0001181 | VOLUME | 467325.994 | 3730308.171 | 512.86 |
| LOCATION L0001182 | VOLUME | 467332.250 | 3730302.416 | 514.07 |
| LOCATION L0001183 | VOLUME | 467338.505 | 3730296.661 | 515.55 |
| LOCATION L0001184 | VOLUME | 467344.760 | 3730290.906 | 517.11 |
| LOCATION L0001185 | VOLUME | 467351.016 | 3730285.151 | 518.61 |
| LOCATION L0001186 | VOLUME | 467357.271 | 3730279.396 | 519.54 |
| LOCATION L0001187 | VOLUME | 467361.800 | 3730272.234 | 519.18 |

|                   |        |            | WorkerDPM   |        |  |
|-------------------|--------|------------|-------------|--------|--|
| LOCATION L0001188 | VOLUME | 467366.173 | 3730264.945 | 518.25 |  |
| LOCATION L0001189 | VOLUME | 467370.546 | 3730257.657 | 517.25 |  |
| LOCATION L0001190 | VOLUME | 467374.919 | 3730250.368 | 516.18 |  |
| LOCATION L0001191 | VOLUME | 467379.292 | 3730243.079 | 514.84 |  |
| LOCATION L0001192 | VOLUME | 467383.666 | 3730235.791 | 512.92 |  |
| LOCATION L0001193 | VOLUME | 467388.039 | 3730228.502 | 511.18 |  |
| LOCATION L0001194 | VOLUME | 467392.412 | 3730221.213 | 509.66 |  |
| LOCATION L0001195 | VOLUME | 467396.785 | 3730213.924 | 508.40 |  |
| LOCATION L0001196 | VOLUME | 467399.975 | 3730206.124 | 506.88 |  |
| LOCATION L0001197 | VOLUME | 467402.289 | 3730197.945 | 505.01 |  |
| LOCATION L0001198 | VOLUME | 467404.604 | 3730189.766 | 503.09 |  |
| LOCATION L0001199 | VOLUME | 467406.919 | 3730181.588 | 501.11 |  |
| LOCATION L0001200 | VOLUME | 467409.234 | 3730173.409 | 499.13 |  |
| LOCATION L0001201 | VOLUME | 467411.548 | 3730165.230 | 497.29 |  |
| LOCATION L0001202 | VOLUME | 467413.863 | 3730157.051 | 495.44 |  |
| LOCATION L0001203 | VOLUME | 467416.178 | 3730148.873 | 493.39 |  |
| LOCATION L0001204 | VOLUME | 467418.493 | 3730140.694 | 491.16 |  |
| LOCATION L0001205 | VOLUME | 467420.807 | 3730132.515 | 488.76 |  |
| LOCATION L0001206 | VOLUME | 467423.122 | 3730124.336 | 486.12 |  |
| LOCATION L0001207 | VOLUME | 467425.437 | 3730116.158 | 483.16 |  |
| LOCATION L0001208 | VOLUME | 467427.751 | 3730107.979 | 480.19 |  |
| LOCATION L0001209 | VOLUME | 467430.066 | 3730099.800 | 477.23 |  |
| LOCATION L0001210 | VOLUME | 467432.381 | 3730091.621 | 474.31 |  |
| LOCATION L0001211 | VOLUME | 467434.588 | 3730083.413 | 471.49 |  |
| LOCATION L0001212 | VOLUME | 467436.778 | 3730075.200 | 468.78 |  |
| LOCATION L0001213 | VOLUME | 467438.968 | 3730066.987 | 466.20 |  |
| LOCATION L0001214 | VOLUME | 467441.158 | 3730058.774 | 462.66 |  |
| LOCATION L0001215 | VOLUME | 467443.348 | 3730050.561 | 458.86 |  |
| LOCATION L0001216 | VOLUME | 467445.538 | 3730042.348 | 455.11 |  |
| LOCATION L0001217 | VOLUME | 467447.729 | 3730034.135 | 451.34 |  |
| LOCATION L0001218 | VOLUME | 467449.919 | 3730025.922 | 447.49 |  |
| LOCATION L0001219 | VOLUME | 467452.109 | 3730017.709 | 443.71 |  |
| LOCATION L0001220 | VOLUME | 467454.299 | 3730009.496 | 440.02 |  |
| LOCATION L0001221 | VOLUME | 467458.310 | 3730002.294 | 437.04 |  |
| LOCATION L0001222 | VOLUME | 467464.123 | 3729996.093 | 434.75 |  |
| LOCATION L0001223 | VOLUME | 467469.937 | 3729989.892 | 432.61 |  |
| LOCATION L0001224 | VOLUME | 467475.750 | 3729983.691 | 430.45 |  |
| LOCATION L0001225 | VOLUME | 467481.564 | 3729977.490 | 428.45 |  |
| LOCATION L0001226 | VOLUME | 467487.377 | 3729971.289 | 426.98 |  |
| LOCATION L0001227 | VOLUME | 467494.198 | 3729966.360 | 426.36 |  |
| LOCATION L0001228 | VOLUME | 467501.570 | 3729962.130 | 426.83 |  |
| LOCATION L0001229 | VOLUME | 467508.943 | 3729957.900 | 428.74 |  |
| LOCATION L0001230 | VOLUME | 467516.315 | 3729953.670 | 430.45 |  |
| LOCATION L0001231 | VOLUME | 467523.688 | 3729949.440 | 431.94 |  |
| LOCATION L0001232 | VOLUME | 467531.061 | 3729945.209 | 433.18 |  |
| LOCATION L0001233 | VOLUME | 467538.433 | 3729940.979 | 433.98 |  |
| LOCATION L0001234 | VOLUME | 467545.806 | 3729936.749 | 434.57 |  |
| LOCATION L0001235 | VOLUME | 467553.179 | 3729932.519 | 434.95 |  |

WorkerDPM

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0001236 | VOLUME | 467560.354 | 3729928.001 | 434.91 |
| LOCATION L0001237 | VOLUME | 467566.953 | 3729922.644 | 433.86 |
| LOCATION L0001238 | VOLUME | 467573.553 | 3729917.288 | 432.82 |
| LOCATION L0001239 | VOLUME | 467580.153 | 3729911.931 | 431.78 |
| LOCATION L0001240 | VOLUME | 467586.753 | 3729906.575 | 430.74 |
| LOCATION L0001241 | VOLUME | 467593.353 | 3729901.218 | 429.82 |
| LOCATION L0001242 | VOLUME | 467599.953 | 3729895.862 | 429.23 |
| LOCATION L0001243 | VOLUME | 467606.553 | 3729890.506 | 428.96 |
| LOCATION L0001244 | VOLUME | 467613.153 | 3729885.149 | 429.01 |
| LOCATION L0001245 | VOLUME | 467619.753 | 3729879.793 | 429.16 |
| LOCATION L0001246 | VOLUME | 467626.352 | 3729874.436 | 429.50 |
| LOCATION L0001247 | VOLUME | 467632.952 | 3729869.080 | 429.60 |
| LOCATION L0001248 | VOLUME | 467639.200 | 3729863.352 | 429.24 |
| LOCATION L0001249 | VOLUME | 467644.897 | 3729857.044 | 428.28 |
| LOCATION L0001250 | VOLUME | 467650.595 | 3729850.736 | 427.39 |
| LOCATION L0001251 | VOLUME | 467656.292 | 3729844.428 | 426.24 |
| LOCATION L0001252 | VOLUME | 467661.989 | 3729838.120 | 425.09 |
| LOCATION L0001253 | VOLUME | 467667.687 | 3729831.812 | 423.94 |
| LOCATION L0001254 | VOLUME | 467673.692 | 3729825.800 | 422.96 |
| LOCATION L0001255 | VOLUME | 467679.768 | 3729819.856 | 422.78 |
| LOCATION L0001256 | VOLUME | 467685.844 | 3729813.912 | 422.40 |
| LOCATION L0001257 | VOLUME | 467691.920 | 3729807.968 | 422.03 |
| LOCATION L0001258 | VOLUME | 467697.997 | 3729802.024 | 421.65 |
| LOCATION L0001259 | VOLUME | 467704.073 | 3729796.080 | 421.27 |
| LOCATION L0001260 | VOLUME | 467710.149 | 3729790.136 | 420.87 |
| LOCATION L0001261 | VOLUME | 467716.225 | 3729784.192 | 420.12 |

\*\* End of LINE VOLUME Source ID = SLINE2

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Off-Site Travel

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00001262

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 15

\*\* 467773.569, 3729732.155, 414.00, 0.00, 3.95

\*\* 467719.897, 3729744.702, 413.93, 0.00, 3.95

\*\* 467689.924, 3729762.128, 414.29, 0.00, 3.95

\*\* 467662.042, 3729777.463, 412.74, 0.00, 3.95

\*\* 467650.889, 3729785.131, 413.77, 0.00, 3.95

\*\* 467631.372, 3729789.313, 412.26, 0.00, 3.95

\*\* 467602.096, 3729802.557, 410.47, 0.00, 3.95

\*\* 467522.632, 3729804.648, 408.27, 0.00, 3.95

\*\* 467443.169, 3729807.437, 402.19, 0.00, 3.95

\*\* 467335.127, 3729833.924, 399.47, 0.00, 3.95

WorkerDPM

\*\* 467295.395, 3729839.501, 398.16, 0.00, 3.95  
 \*\* 467217.326, 3729834.621, 400.44, 0.00, 3.95  
 \*\* 467097.434, 3729803.254, 398.97, 0.00, 3.95  
 \*\* 466919.687, 3729764.220, 401.42, 0.00, 3.95  
 \*\* 466736.447, 3729716.966, 402.67, 0.00, 3.95

\*\* -----  
 LOCATION L0001262 VOLUME 467769.431 3729733.123 414.00  
 LOCATION L0001263 VOLUME 467761.154 3729735.058 413.99  
 LOCATION L0001264 VOLUME 467752.877 3729736.993 414.10  
 LOCATION L0001265 VOLUME 467744.600 3729738.927 414.29  
 LOCATION L0001266 VOLUME 467736.323 3729740.862 414.47  
 LOCATION L0001267 VOLUME 467728.047 3729742.797 414.59  
 LOCATION L0001268 VOLUME 467719.784 3729744.768 414.68  
 LOCATION L0001269 VOLUME 467712.436 3729749.040 414.91  
 LOCATION L0001270 VOLUME 467705.087 3729753.312 414.98  
 LOCATION L0001271 VOLUME 467697.739 3729757.585 414.87  
 LOCATION L0001272 VOLUME 467690.391 3729761.857 414.62  
 LOCATION L0001273 VOLUME 467682.949 3729765.964 414.22  
 LOCATION L0001274 VOLUME 467675.501 3729770.061 414.22  
 LOCATION L0001275 VOLUME 467668.053 3729774.157 414.10  
 LOCATION L0001276 VOLUME 467660.691 3729778.392 413.86  
 LOCATION L0001277 VOLUME 467653.687 3729783.208 413.57  
 LOCATION L0001278 VOLUME 467645.898 3729786.201 413.14  
 LOCATION L0001279 VOLUME 467637.586 3729787.982 412.77  
 LOCATION L0001280 VOLUME 467629.418 3729790.197 412.39  
 LOCATION L0001281 VOLUME 467621.673 3729793.701 412.05  
 LOCATION L0001282 VOLUME 467613.929 3729797.204 411.71  
 LOCATION L0001283 VOLUME 467606.185 3729800.707 411.48  
 LOCATION L0001284 VOLUME 467598.085 3729802.663 411.16  
 LOCATION L0001285 VOLUME 467589.588 3729802.886 410.69  
 LOCATION L0001286 VOLUME 467581.091 3729803.110 410.64  
 LOCATION L0001287 VOLUME 467572.594 3729803.334 410.59  
 LOCATION L0001288 VOLUME 467564.097 3729803.557 410.54  
 LOCATION L0001289 VOLUME 467555.600 3729803.781 410.35  
 LOCATION L0001290 VOLUME 467547.103 3729804.004 410.00  
 LOCATION L0001291 VOLUME 467538.606 3729804.228 409.65  
 LOCATION L0001292 VOLUME 467530.109 3729804.452 409.30  
 LOCATION L0001293 VOLUME 467521.612 3729804.684 408.14  
 LOCATION L0001294 VOLUME 467513.117 3729804.982 406.93  
 LOCATION L0001295 VOLUME 467504.622 3729805.280 405.72  
 LOCATION L0001296 VOLUME 467496.127 3729805.578 404.73  
 LOCATION L0001297 VOLUME 467487.633 3729805.876 404.07  
 LOCATION L0001298 VOLUME 467479.138 3729806.174 403.40  
 LOCATION L0001299 VOLUME 467470.643 3729806.473 402.73  
 LOCATION L0001300 VOLUME 467462.148 3729806.771 402.48  
 LOCATION L0001301 VOLUME 467453.654 3729807.069 402.30  
 LOCATION L0001302 VOLUME 467445.159 3729807.367 402.11  
 LOCATION L0001303 VOLUME 467436.847 3729808.986 401.96

|                   |        |            | WorkerDPM   |        |  |
|-------------------|--------|------------|-------------|--------|--|
| LOCATION L0001304 | VOLUME | 467428.592 | 3729811.010 | 401.82 |  |
| LOCATION L0001305 | VOLUME | 467420.336 | 3729813.034 | 401.64 |  |
| LOCATION L0001306 | VOLUME | 467412.081 | 3729815.058 | 401.42 |  |
| LOCATION L0001307 | VOLUME | 467403.825 | 3729817.082 | 401.10 |  |
| LOCATION L0001308 | VOLUME | 467395.570 | 3729819.106 | 400.76 |  |
| LOCATION L0001309 | VOLUME | 467387.314 | 3729821.130 | 400.42 |  |
| LOCATION L0001310 | VOLUME | 467379.059 | 3729823.154 | 400.09 |  |
| LOCATION L0001311 | VOLUME | 467370.803 | 3729825.178 | 400.02 |  |
| LOCATION L0001312 | VOLUME | 467362.547 | 3729827.202 | 399.98 |  |
| LOCATION L0001313 | VOLUME | 467354.292 | 3729829.226 | 399.91 |  |
| LOCATION L0001314 | VOLUME | 467346.036 | 3729831.250 | 399.71 |  |
| LOCATION L0001315 | VOLUME | 467337.781 | 3729833.274 | 399.36 |  |
| LOCATION L0001316 | VOLUME | 467329.415 | 3729834.726 | 399.04 |  |
| LOCATION L0001317 | VOLUME | 467320.998 | 3729835.907 | 398.72 |  |
| LOCATION L0001318 | VOLUME | 467312.580 | 3729837.089 | 398.48 |  |
| LOCATION L0001319 | VOLUME | 467304.163 | 3729838.270 | 398.29 |  |
| LOCATION L0001320 | VOLUME | 467295.745 | 3729839.451 | 398.11 |  |
| LOCATION L0001321 | VOLUME | 467287.265 | 3729838.993 | 397.96 |  |
| LOCATION L0001322 | VOLUME | 467278.781 | 3729838.462 | 397.79 |  |
| LOCATION L0001323 | VOLUME | 467270.298 | 3729837.932 | 397.61 |  |
| LOCATION L0001324 | VOLUME | 467261.814 | 3729837.402 | 397.42 |  |
| LOCATION L0001325 | VOLUME | 467253.331 | 3729836.872 | 397.55 |  |
| LOCATION L0001326 | VOLUME | 467244.848 | 3729836.341 | 397.82 |  |
| LOCATION L0001327 | VOLUME | 467236.364 | 3729835.811 | 398.12 |  |
| LOCATION L0001328 | VOLUME | 467227.881 | 3729835.281 | 398.45 |  |
| LOCATION L0001329 | VOLUME | 467219.397 | 3729834.751 | 398.80 |  |
| LOCATION L0001330 | VOLUME | 467211.110 | 3729832.995 | 399.34 |  |
| LOCATION L0001331 | VOLUME | 467202.887 | 3729830.844 | 400.03 |  |
| LOCATION L0001332 | VOLUME | 467194.664 | 3729828.692 | 400.74 |  |
| LOCATION L0001333 | VOLUME | 467186.441 | 3729826.541 | 401.36 |  |
| LOCATION L0001334 | VOLUME | 467178.218 | 3729824.390 | 401.82 |  |
| LOCATION L0001335 | VOLUME | 467169.994 | 3729822.238 | 402.00 |  |
| LOCATION L0001336 | VOLUME | 467161.771 | 3729820.087 | 401.79 |  |
| LOCATION L0001337 | VOLUME | 467153.548 | 3729817.935 | 401.61 |  |
| LOCATION L0001338 | VOLUME | 467145.325 | 3729815.784 | 401.47 |  |
| LOCATION L0001339 | VOLUME | 467137.101 | 3729813.632 | 401.28 |  |
| LOCATION L0001340 | VOLUME | 467128.878 | 3729811.481 | 400.94 |  |
| LOCATION L0001341 | VOLUME | 467120.655 | 3729809.330 | 400.64 |  |
| LOCATION L0001342 | VOLUME | 467112.432 | 3729807.178 | 400.38 |  |
| LOCATION L0001343 | VOLUME | 467104.209 | 3729805.027 | 399.77 |  |
| LOCATION L0001344 | VOLUME | 467095.971 | 3729802.933 | 398.79 |  |
| LOCATION L0001345 | VOLUME | 467087.669 | 3729801.110 | 397.62 |  |
| LOCATION L0001346 | VOLUME | 467079.367 | 3729799.287 | 396.32 |  |
| LOCATION L0001347 | VOLUME | 467071.065 | 3729797.463 | 396.10 |  |
| LOCATION L0001348 | VOLUME | 467062.763 | 3729795.640 | 396.01 |  |
| LOCATION L0001349 | VOLUME | 467054.461 | 3729793.817 | 396.02 |  |
| LOCATION L0001350 | VOLUME | 467046.158 | 3729791.994 | 396.00 |  |
| LOCATION L0001351 | VOLUME | 467037.856 | 3729790.171 | 396.00 |  |

WorkerDPM

|          |          |        |            |             |        |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0001352 | VOLUME | 467029.554 | 3729788.347 | 396.00 |
| LOCATION | L0001353 | VOLUME | 467021.252 | 3729786.524 | 396.00 |
| LOCATION | L0001354 | VOLUME | 467012.950 | 3729784.701 | 397.06 |
| LOCATION | L0001355 | VOLUME | 467004.648 | 3729782.878 | 398.43 |
| LOCATION | L0001356 | VOLUME | 466996.346 | 3729781.054 | 399.88 |
| LOCATION | L0001357 | VOLUME | 466988.043 | 3729779.231 | 401.24 |
| LOCATION | L0001358 | VOLUME | 466979.741 | 3729777.408 | 401.95 |
| LOCATION | L0001359 | VOLUME | 466971.439 | 3729775.585 | 402.55 |
| LOCATION | L0001360 | VOLUME | 466963.137 | 3729773.762 | 403.05 |
| LOCATION | L0001361 | VOLUME | 466954.835 | 3729771.938 | 403.01 |
| LOCATION | L0001362 | VOLUME | 466946.533 | 3729770.115 | 402.64 |
| LOCATION | L0001363 | VOLUME | 466938.230 | 3729768.292 | 402.31 |
| LOCATION | L0001364 | VOLUME | 466929.928 | 3729766.469 | 402.01 |
| LOCATION | L0001365 | VOLUME | 466921.626 | 3729764.646 | 401.60 |
| LOCATION | L0001366 | VOLUME | 466913.379 | 3729762.593 | 401.11 |
| LOCATION | L0001367 | VOLUME | 466905.148 | 3729760.470 | 400.63 |
| LOCATION | L0001368 | VOLUME | 466896.917 | 3729758.348 | 399.92 |
| LOCATION | L0001369 | VOLUME | 466888.686 | 3729756.225 | 398.80 |
| LOCATION | L0001370 | VOLUME | 466880.456 | 3729754.103 | 397.76 |
| LOCATION | L0001371 | VOLUME | 466872.225 | 3729751.980 | 396.80 |
| LOCATION | L0001372 | VOLUME | 466863.994 | 3729749.858 | 396.46 |
| LOCATION | L0001373 | VOLUME | 466855.764 | 3729747.735 | 396.39 |
| LOCATION | L0001374 | VOLUME | 466847.533 | 3729745.613 | 396.32 |
| LOCATION | L0001375 | VOLUME | 466839.302 | 3729743.490 | 396.29 |
| LOCATION | L0001376 | VOLUME | 466831.071 | 3729741.367 | 397.22 |
| LOCATION | L0001377 | VOLUME | 466822.841 | 3729739.245 | 398.22 |
| LOCATION | L0001378 | VOLUME | 466814.610 | 3729737.122 | 399.31 |
| LOCATION | L0001379 | VOLUME | 466806.379 | 3729735.000 | 400.08 |
| LOCATION | L0001380 | VOLUME | 466798.149 | 3729732.877 | 400.32 |
| LOCATION | L0001381 | VOLUME | 466789.918 | 3729730.755 | 400.60 |
| LOCATION | L0001382 | VOLUME | 466781.687 | 3729728.632 | 400.91 |
| LOCATION | L0001383 | VOLUME | 466773.456 | 3729726.510 | 401.41 |
| LOCATION | L0001384 | VOLUME | 466765.226 | 3729724.387 | 401.96 |
| LOCATION | L0001385 | VOLUME | 466756.995 | 3729722.265 | 402.51 |
| LOCATION | L0001386 | VOLUME | 466748.764 | 3729720.142 | 403.01 |
| LOCATION | L0001387 | VOLUME | 466740.533 | 3729718.019 | 403.12 |

\*\* End of LINE VOLUME Source ID = SLINE3

\*\* Source Parameters \*\*

|          |        |            |             |            |             |
|----------|--------|------------|-------------|------------|-------------|
| SRCPARAM | PAREA1 | 2.3635E-09 | 5.000       | 72         | 1.000       |
| AREAVERT | PAREA1 | 467190.199 | 3730371.004 | 467293.010 | 3730368.225 |
| AREAVERT | PAREA1 | 467329.133 | 3730364.057 | 467377.760 | 3730359.889 |
| AREAVERT | PAREA1 | 467419.440 | 3730339.049 | 467462.509 | 3730302.926 |
| AREAVERT | PAREA1 | 467484.739 | 3730276.529 | 467494.464 | 3730261.246 |
| AREAVERT | PAREA1 | 467506.968 | 3730237.628 | 467518.083 | 3730209.841 |
| AREAVERT | PAREA1 | 467519.472 | 3730180.665 | 467519.472 | 3730137.595 |
| AREAVERT | PAREA1 | 467515.304 | 3730109.808 | 467513.915 | 3730094.526 |
| AREAVERT | PAREA1 | 467515.304 | 3730073.686 | 467520.862 | 3730059.792 |
| AREAVERT | PAREA1 | 467529.198 | 3730036.173 | 467531.976 | 3730029.227 |

WorkerDPM

|          |        |            |             |            |             |
|----------|--------|------------|-------------|------------|-------------|
| AREAVERT | PAREA1 | 467533.366 | 3730026.448 | 467543.091 | 3730013.944 |
| AREAVERT | PAREA1 | 467548.648 | 3730006.997 | 467562.542 | 3729990.325 |
| AREAVERT | PAREA1 | 467570.878 | 3729981.989 | 467579.214 | 3729970.874 |
| AREAVERT | PAREA1 | 467615.337 | 3729945.866 | 467625.062 | 3729934.752 |
| AREAVERT | PAREA1 | 467634.787 | 3729930.584 | 467651.460 | 3729925.026 |
| AREAVERT | PAREA1 | 467666.742 | 3729918.080 | 467693.140 | 3729909.743 |
| AREAVERT | PAREA1 | 467711.201 | 3729902.797 | 467745.935 | 3729895.850 |
| AREAVERT | PAREA1 | 467770.943 | 3729886.125 | 467787.615 | 3729876.399 |
| AREAVERT | PAREA1 | 467807.066 | 3729862.506 | 467816.791 | 3729848.613 |
| AREAVERT | PAREA1 | 467822.348 | 3729827.772 | 467826.516 | 3729816.658 |
| AREAVERT | PAREA1 | 467823.738 | 3729788.871 | 467823.738 | 3729777.756 |
| AREAVERT | PAREA1 | 467801.508 | 3729776.367 | 467773.721 | 3729776.367 |
| AREAVERT | PAREA1 | 467733.431 | 3729779.146 | 467676.468 | 3729780.535 |
| AREAVERT | PAREA1 | 467615.337 | 3729793.039 | 467579.214 | 3729802.764 |
| AREAVERT | PAREA1 | 467529.198 | 3729816.658 | 467509.747 | 3729834.719 |
| AREAVERT | PAREA1 | 467456.952 | 3729919.469 | 467347.194 | 3730005.608 |
| AREAVERT | PAREA1 | 467372.202 | 3730107.030 | 467373.592 | 3730132.038 |
| AREAVERT | PAREA1 | 467363.866 | 3730143.152 | 467349.973 | 3730159.825 |
| AREAVERT | PAREA1 | 467343.026 | 3730173.718 | 467334.690 | 3730190.390 |
| AREAVERT | PAREA1 | 467326.354 | 3730205.673 | 467313.850 | 3730225.123 |
| AREAVERT | PAREA1 | 467299.957 | 3730247.353 | 467295.789 | 3730269.582 |
| AREAVERT | PAREA1 | 467284.674 | 3730280.697 | 467281.895 | 3730295.980 |
| AREAVERT | PAREA1 | 467280.506 | 3730304.316 | 467276.338 | 3730315.431 |
| AREAVERT | PAREA1 | 467270.781 | 3730319.599 | 467265.223 | 3730326.545 |
| AREAVERT | PAREA1 | 467262.445 | 3730336.271 | 467256.887 | 3730340.439 |
| AREAVERT | PAREA1 | 467252.719 | 3730344.607 | 467245.772 | 3730348.775 |
| AREAVERT | PAREA1 | 467234.658 | 3730355.721 | 467213.818 | 3730361.279 |

\*\* LINE VOLUME Source ID = SLINE1

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0001080 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001081 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001082 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001083 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001084 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001085 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001086 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001087 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001088 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001089 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001090 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001091 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001092 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001093 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001094 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001095 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001096 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001097 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001098 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0001099 | 0.00000002344 | 0.00 | 3.95 | 1.86 |

## WorkerDPM

[illegible]

WorkerDPM

|                   |               |      |      |      |
|-------------------|---------------|------|------|------|
| SRCPARAM L0001148 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001149 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001150 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001151 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001152 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001153 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001154 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001155 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001156 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001157 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001158 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001159 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001160 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001161 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001162 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001163 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001164 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001165 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001166 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001167 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001168 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001169 | 0.00000002344 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001170 | 0.00000002344 | 0.00 | 3.95 | 1.86 |

\*\*

\*\* LINE VOLUME Source ID = SLINE2

|                   |               |      |      |      |
|-------------------|---------------|------|------|------|
| SRCPARAM L0001171 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001172 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001173 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001174 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001175 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001176 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001177 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001178 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001179 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001180 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001181 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001182 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001183 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001184 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001185 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001186 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001187 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001188 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001189 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001190 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001191 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001192 | 0.00000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001193 | 0.00000001876 | 0.00 | 3.95 | 1.86 |

## WorkerDPM

[illegible]

## WorkerDPM

|                   |              |      |      |      |
|-------------------|--------------|------|------|------|
| SRCPARAM L0001242 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001243 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001244 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001245 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001246 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001247 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001248 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001249 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001250 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001251 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001252 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001253 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001254 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001255 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001256 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001257 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001258 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001259 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001260 | 0.0000001876 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001261 | 0.0000001876 | 0.00 | 3.95 | 1.86 |

\*\*

\*\* LINE VOLUME Source ID = SLINE3

|                   |              |      |      |      |
|-------------------|--------------|------|------|------|
| SRCPARAM L0001262 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001263 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001264 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001265 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001266 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001267 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001268 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001269 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001270 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001271 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001272 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001273 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001274 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001275 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001276 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001277 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001278 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001279 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001280 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001281 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001282 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001283 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001284 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001285 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001286 | 0.0000001002 | 0.00 | 3.95 | 1.86 |
| SRCPARAM L0001287 | 0.0000001002 | 0.00 | 3.95 | 1.86 |

## WorkerDPM

[illegible]

## WorkerDPM

[illegible]

|          |          |              | WorkerDPM |      |      |
|----------|----------|--------------|-----------|------|------|
| SRCPARAM | L0001384 | 0.0000001002 | 0.00      | 3.95 | 1.86 |
| SRCPARAM | L0001385 | 0.0000001002 | 0.00      | 3.95 | 1.86 |
| SRCPARAM | L0001386 | 0.0000001002 | 0.00      | 3.95 | 1.86 |
| SRCPARAM | L0001387 | 0.0000001002 | 0.00      | 3.95 | 1.86 |

\*\* -----  
 URBANSRC ALL  
 SRCGROUP ALL  
 SO FINISHED  
 \*\*  
 \*\*\*\*\*  
 \*\* AERMOD Receptor Pathway  
 \*\*\*\*\*  
 \*\*  
 \*\*  
 RE STARTING  
 INCLUDED WorkerDPM.rou  
 RE FINISHED  
 \*\*  
 \*\*\*\*\*  
 \*\* AERMOD Meteorology Pathway  
 \*\*\*\*\*  
 \*\*  
 \*\*  
 ME STARTING  
 SURFFILE ..\elsi8.sfc  
 PROFFILE ..\elsi8.PFL  
 SURFDATA 3190 2008  
 UAIRDATA 3190 2008  
 SITEDATA 99999 2008  
 PROFBASE 406.0 METERS  
 ME FINISHED  
 \*\*  
 \*\*\*\*\*  
 \*\* AERMOD Output Pathway  
 \*\*\*\*\*  
 \*\*  
 \*\*  
 OU STARTING  
 \*\* Auto-Generated Plotfiles  
 PLOTFILE ANNUAL ALL WORKERDPM.AD\AN00GALL.PLT 31  
 SUMMFILE WorkerDPM.sum  
 OU FINISHED

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

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

WorkerDPM  
A Total of 0 Fatal Error Message(s)  
A Total of 1 Warning Message(s)  
A Total of 0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W531 799 MEOPEN: CAUTION! Met Station ID Missing from SURFFILE for  
SURFDATA

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

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 14:49:12

PAGE 1  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* 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 309 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2100516.0 ; 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:

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: 309 Source(s); 1 Source Group(s); and 7 Receptor(s)

with: 0 POINT(s), including  
 0 POINTCAP(s) and 0 POINTHOR(s)  
 and: 308 VOLUME source(s)  
 and: 1 AREA type source(s)  
 and: 0 LINE source(s)  
 and: 0 OPENPIT source(s)

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

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*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) = 406.00 ; Decay  
 Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ;

Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 4.0 MB of RAM.

\*\*Detailed Error/Message File: WorkerDPM.err

# WorkerDPM

\*\*File for Summary of Results: WorkerDPM.sum

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 14:49:12

\*\*MODELOPTs: RegDFAULT CONC PAGE 2  
ELEV URBAN

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

| INIT.    | URBAN  | NUMBER   | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    |
|----------|--------|----------|-------------|----------|-----------|----------|----------|----------|
| SZ       | SOURCE | EMISSION | RATE        |          |           | ELEV.    | HEIGHT   | SY       |
| ID       | SOURCE | SCALAR   | VARY        | X        | Y         | (METERS) | (METERS) | (METERS) |
| (METERS) |        | CATS.    | BY          | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) |
| L0001080 |        | 0        | 0.23440E-07 | 467256.0 | 3730355.2 | 501.5    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001081 |        | 0        | 0.23440E-07 | 467263.5 | 3730351.2 | 502.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001082 |        | 0        | 0.23440E-07 | 467271.0 | 3730347.2 | 504.8    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001083 |        | 0        | 0.23440E-07 | 467278.5 | 3730343.2 | 506.6    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001084 |        | 0        | 0.23440E-07 | 467286.0 | 3730339.2 | 508.4    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001085 |        | 0        | 0.23440E-07 | 467293.5 | 3730335.2 | 509.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001086 |        | 0        | 0.23440E-07 | 467301.0 | 3730331.2 | 511.0    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001087 |        | 0        | 0.23440E-07 | 467307.2 | 3730325.4 | 511.3    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001088 |        | 0        | 0.23440E-07 | 467313.5 | 3730319.7 | 511.7    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001089 |        | 0        | 0.23440E-07 | 467319.7 | 3730313.9 | 512.1    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001090 |        | 0        | 0.23440E-07 | 467326.0 | 3730308.2 | 512.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001091 |        | 0        | 0.23440E-07 | 467332.2 | 3730302.4 | 514.1    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001092 |        | 0        | 0.23440E-07 | 467338.5 | 3730296.7 | 515.5    | 0.00     | 3.95     |

|          |     |   |             | WorkerDPM |           |       |      |      |
|----------|-----|---|-------------|-----------|-----------|-------|------|------|
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001093 |     | 0 | 0.23440E-07 | 467344.8  | 3730290.9 | 517.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001094 |     | 0 | 0.23440E-07 | 467351.0  | 3730285.2 | 518.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001095 |     | 0 | 0.23440E-07 | 467357.3  | 3730279.4 | 519.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001096 |     | 0 | 0.23440E-07 | 467361.8  | 3730272.2 | 519.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001097 |     | 0 | 0.23440E-07 | 467366.2  | 3730264.9 | 518.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001098 |     | 0 | 0.23440E-07 | 467370.5  | 3730257.7 | 517.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001099 |     | 0 | 0.23440E-07 | 467374.9  | 3730250.4 | 516.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001100 |     | 0 | 0.23440E-07 | 467379.3  | 3730243.1 | 514.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001101 |     | 0 | 0.23440E-07 | 467383.7  | 3730235.8 | 512.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001102 |     | 0 | 0.23440E-07 | 467388.0  | 3730228.5 | 511.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001103 |     | 0 | 0.23440E-07 | 467392.4  | 3730221.2 | 509.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001104 |     | 0 | 0.23440E-07 | 467396.8  | 3730213.9 | 508.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001105 |     | 0 | 0.23440E-07 | 467400.0  | 3730206.1 | 506.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001106 |     | 0 | 0.23440E-07 | 467402.3  | 3730197.9 | 505.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001107 |     | 0 | 0.23440E-07 | 467404.6  | 3730189.8 | 503.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001108 |     | 0 | 0.23440E-07 | 467406.9  | 3730181.6 | 501.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001109 |     | 0 | 0.23440E-07 | 467409.2  | 3730173.4 | 499.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001110 |     | 0 | 0.23440E-07 | 467411.5  | 3730165.2 | 497.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001111 |     | 0 | 0.23440E-07 | 467413.9  | 3730157.1 | 495.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001112 |     | 0 | 0.23440E-07 | 467416.2  | 3730148.9 | 493.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001113 |     | 0 | 0.23440E-07 | 467418.5  | 3730140.7 | 491.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001114 |     | 0 | 0.23440E-07 | 467420.8  | 3730132.5 | 488.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001115 |     | 0 | 0.23440E-07 | 467423.1  | 3730124.3 | 486.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001116 |     | 0 | 0.23440E-07 | 467425.4  | 3730116.2 | 483.2 | 0.00 | 3.95 |

## WorkerDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001117 |     | 0 | 0.23440E-07 | 467427.8 | 3730108.0 | 480.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001118 |     | 0 | 0.23440E-07 | 467430.1 | 3730099.8 | 477.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001119 |     | 0 | 0.23440E-07 | 467432.4 | 3730091.6 | 474.3 | 0.00 | 3.95 |

1.86 YES

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\*\*\* AERMET - VERSION 14134 \*\*\*

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\*\*MODELOPTs: RegDFAULT CONC

ELEV

URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0001120 |     | 0 | 0.23440E-07 | 467434.6 | 3730083.4 | 471.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001121 |     | 0 | 0.23440E-07 | 467436.8 | 3730075.2 | 468.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001122 |     | 0 | 0.23440E-07 | 467439.0 | 3730067.0 | 466.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001123 |     | 0 | 0.23440E-07 | 467441.2 | 3730058.8 | 462.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001124 |     | 0 | 0.23440E-07 | 467443.3 | 3730050.6 | 458.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001125 |     | 0 | 0.23440E-07 | 467445.5 | 3730042.3 | 455.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001126 |     | 0 | 0.23440E-07 | 467447.7 | 3730034.1 | 451.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001127 |     | 0 | 0.23440E-07 | 467449.9 | 3730025.9 | 447.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001128 |     | 0 | 0.23440E-07 | 467452.1 | 3730017.7 | 443.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001129 |     | 0 | 0.23440E-07 | 467454.3 | 3730009.5 | 440.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001130 |     | 0 | 0.23440E-07 | 467458.3 | 3730002.3 | 437.0 | 0.00 | 3.95 |

|          |     |   |             | WorkerDPM |           |       |      |      |
|----------|-----|---|-------------|-----------|-----------|-------|------|------|
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001131 |     | 0 | 0.23440E-07 | 467464.1  | 3729996.1 | 434.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001132 |     | 0 | 0.23440E-07 | 467469.9  | 3729989.9 | 432.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001133 |     | 0 | 0.23440E-07 | 467475.8  | 3729983.7 | 430.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001134 |     | 0 | 0.23440E-07 | 467481.6  | 3729977.5 | 428.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001135 |     | 0 | 0.23440E-07 | 467487.4  | 3729971.3 | 427.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001136 |     | 0 | 0.23440E-07 | 467494.2  | 3729966.4 | 426.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001137 |     | 0 | 0.23440E-07 | 467501.6  | 3729962.1 | 426.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001138 |     | 0 | 0.23440E-07 | 467508.9  | 3729957.9 | 428.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001139 |     | 0 | 0.23440E-07 | 467516.3  | 3729953.7 | 430.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001140 |     | 0 | 0.23440E-07 | 467523.7  | 3729949.4 | 431.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001141 |     | 0 | 0.23440E-07 | 467531.1  | 3729945.2 | 433.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001142 |     | 0 | 0.23440E-07 | 467538.4  | 3729941.0 | 434.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001143 |     | 0 | 0.23440E-07 | 467545.8  | 3729936.7 | 434.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001144 |     | 0 | 0.23440E-07 | 467553.2  | 3729932.5 | 434.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001145 |     | 0 | 0.23440E-07 | 467560.4  | 3729928.0 | 434.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001146 |     | 0 | 0.23440E-07 | 467567.0  | 3729922.6 | 433.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001147 |     | 0 | 0.23440E-07 | 467573.6  | 3729917.3 | 432.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001148 |     | 0 | 0.23440E-07 | 467580.2  | 3729911.9 | 431.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001149 |     | 0 | 0.23440E-07 | 467586.8  | 3729906.6 | 430.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001150 |     | 0 | 0.23440E-07 | 467593.4  | 3729901.2 | 429.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001151 |     | 0 | 0.23440E-07 | 467600.0  | 3729895.9 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001152 |     | 0 | 0.23440E-07 | 467606.6  | 3729890.5 | 429.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001153 |     | 0 | 0.23440E-07 | 467613.2  | 3729885.1 | 429.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001154 |     | 0 | 0.23440E-07 | 467619.8  | 3729879.8 | 429.2 | 0.00 | 3.95 |

WorkerDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001155 |     | 0 | 0.23440E-07 | 467626.4 | 3729874.4 | 429.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001156 |     | 0 | 0.23440E-07 | 467633.0 | 3729869.1 | 429.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001157 |     | 0 | 0.23440E-07 | 467639.2 | 3729863.4 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001158 |     | 0 | 0.23440E-07 | 467644.9 | 3729857.0 | 428.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001159 |     | 0 | 0.23440E-07 | 467650.6 | 3729850.7 | 427.4 | 0.00 | 3.95 |

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\*\*\*MODELOPTs: RegDFAULT CONC PAGE 4  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0001160 |     | 0 | 0.23440E-07 | 467656.3 | 3729844.4 | 426.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001161 |     | 0 | 0.23440E-07 | 467662.0 | 3729838.1 | 425.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001162 |     | 0 | 0.23440E-07 | 467667.7 | 3729831.8 | 423.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001163 |     | 0 | 0.23440E-07 | 467673.7 | 3729825.8 | 423.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001164 |     | 0 | 0.23440E-07 | 467679.8 | 3729819.9 | 422.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001165 |     | 0 | 0.23440E-07 | 467685.8 | 3729813.9 | 422.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001166 |     | 0 | 0.23440E-07 | 467691.9 | 3729808.0 | 422.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001167 |     | 0 | 0.23440E-07 | 467698.0 | 3729802.0 | 421.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001168 |     | 0 | 0.23440E-07 | 467704.1 | 3729796.1 | 421.3 | 0.00 | 3.95 |

|          |     |   |             | WorkerDPM |           |       |      |      |
|----------|-----|---|-------------|-----------|-----------|-------|------|------|
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001169 |     | 0 | 0.23440E-07 | 467710.1  | 3729790.1 | 420.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001170 |     | 0 | 0.23440E-07 | 467716.2  | 3729784.2 | 420.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001171 |     | 0 | 0.18760E-06 | 467256.0  | 3730355.2 | 501.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001172 |     | 0 | 0.18760E-06 | 467263.5  | 3730351.2 | 502.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001173 |     | 0 | 0.18760E-06 | 467271.0  | 3730347.2 | 504.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001174 |     | 0 | 0.18760E-06 | 467278.5  | 3730343.2 | 506.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001175 |     | 0 | 0.18760E-06 | 467286.0  | 3730339.2 | 508.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001176 |     | 0 | 0.18760E-06 | 467293.5  | 3730335.2 | 509.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001177 |     | 0 | 0.18760E-06 | 467301.0  | 3730331.2 | 511.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001178 |     | 0 | 0.18760E-06 | 467307.2  | 3730325.4 | 511.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001179 |     | 0 | 0.18760E-06 | 467313.5  | 3730319.7 | 511.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001180 |     | 0 | 0.18760E-06 | 467319.7  | 3730313.9 | 512.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001181 |     | 0 | 0.18760E-06 | 467326.0  | 3730308.2 | 512.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001182 |     | 0 | 0.18760E-06 | 467332.2  | 3730302.4 | 514.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001183 |     | 0 | 0.18760E-06 | 467338.5  | 3730296.7 | 515.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001184 |     | 0 | 0.18760E-06 | 467344.8  | 3730290.9 | 517.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001185 |     | 0 | 0.18760E-06 | 467351.0  | 3730285.2 | 518.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001186 |     | 0 | 0.18760E-06 | 467357.3  | 3730279.4 | 519.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001187 |     | 0 | 0.18760E-06 | 467361.8  | 3730272.2 | 519.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001188 |     | 0 | 0.18760E-06 | 467366.2  | 3730264.9 | 518.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001189 |     | 0 | 0.18760E-06 | 467370.5  | 3730257.7 | 517.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001190 |     | 0 | 0.18760E-06 | 467374.9  | 3730250.4 | 516.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001191 |     | 0 | 0.18760E-06 | 467379.3  | 3730243.1 | 514.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001192 |     | 0 | 0.18760E-06 | 467383.7  | 3730235.8 | 512.9 | 0.00 | 3.95 |

WorkerDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001193 |     | 0 | 0.18760E-06 | 467388.0 | 3730228.5 | 511.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001194 |     | 0 | 0.18760E-06 | 467392.4 | 3730221.2 | 509.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001195 |     | 0 | 0.18760E-06 | 467396.8 | 3730213.9 | 508.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001196 |     | 0 | 0.18760E-06 | 467400.0 | 3730206.1 | 506.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001197 |     | 0 | 0.18760E-06 | 467402.3 | 3730197.9 | 505.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001198 |     | 0 | 0.18760E-06 | 467404.6 | 3730189.8 | 503.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001199 |     | 0 | 0.18760E-06 | 467406.9 | 3730181.6 | 501.1 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:49:12

\*\*MODELOPTs: RegDFAULT CONC PAGE 5  
 ELEV URBAN

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

| INIT.    | URBAN  | NUMBER   | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    |
|----------|--------|----------|-------------|----------|-----------|----------|----------|----------|
| SOURCE   |        | EMISSION | RATE        |          |           |          |          |          |
| SZ       | SOURCE | PART.    | (GRAMS/SEC) | X        | Y         | ELEV.    | HEIGHT   | SY       |
| ID       |        | SCALAR   | VARY        |          |           |          |          |          |
| (METERS) |        | CATS.    | BY          | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) |
| L0001200 |        | 0        | 0.18760E-06 | 467409.2 | 3730173.4 | 499.1    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001201 |        | 0        | 0.18760E-06 | 467411.5 | 3730165.2 | 497.3    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001202 |        | 0        | 0.18760E-06 | 467413.9 | 3730157.1 | 495.4    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001203 |        | 0        | 0.18760E-06 | 467416.2 | 3730148.9 | 493.4    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001204 |        | 0        | 0.18760E-06 | 467418.5 | 3730140.7 | 491.2    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001205 |        | 0        | 0.18760E-06 | 467420.8 | 3730132.5 | 488.8    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0001206 |        | 0        | 0.18760E-06 | 467423.1 | 3730124.3 | 486.1    | 0.00     | 3.95     |

|          |     |   |             | WorkerDPM |           |       |      |      |
|----------|-----|---|-------------|-----------|-----------|-------|------|------|
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001207 |     | 0 | 0.18760E-06 | 467425.4  | 3730116.2 | 483.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001208 |     | 0 | 0.18760E-06 | 467427.8  | 3730108.0 | 480.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001209 |     | 0 | 0.18760E-06 | 467430.1  | 3730099.8 | 477.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001210 |     | 0 | 0.18760E-06 | 467432.4  | 3730091.6 | 474.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001211 |     | 0 | 0.18760E-06 | 467434.6  | 3730083.4 | 471.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001212 |     | 0 | 0.18760E-06 | 467436.8  | 3730075.2 | 468.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001213 |     | 0 | 0.18760E-06 | 467439.0  | 3730067.0 | 466.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001214 |     | 0 | 0.18760E-06 | 467441.2  | 3730058.8 | 462.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001215 |     | 0 | 0.18760E-06 | 467443.3  | 3730050.6 | 458.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001216 |     | 0 | 0.18760E-06 | 467445.5  | 3730042.3 | 455.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001217 |     | 0 | 0.18760E-06 | 467447.7  | 3730034.1 | 451.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001218 |     | 0 | 0.18760E-06 | 467449.9  | 3730025.9 | 447.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001219 |     | 0 | 0.18760E-06 | 467452.1  | 3730017.7 | 443.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001220 |     | 0 | 0.18760E-06 | 467454.3  | 3730009.5 | 440.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001221 |     | 0 | 0.18760E-06 | 467458.3  | 3730002.3 | 437.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001222 |     | 0 | 0.18760E-06 | 467464.1  | 3729996.1 | 434.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001223 |     | 0 | 0.18760E-06 | 467469.9  | 3729989.9 | 432.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001224 |     | 0 | 0.18760E-06 | 467475.8  | 3729983.7 | 430.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001225 |     | 0 | 0.18760E-06 | 467481.6  | 3729977.5 | 428.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001226 |     | 0 | 0.18760E-06 | 467487.4  | 3729971.3 | 427.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001227 |     | 0 | 0.18760E-06 | 467494.2  | 3729966.4 | 426.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001228 |     | 0 | 0.18760E-06 | 467501.6  | 3729962.1 | 426.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001229 |     | 0 | 0.18760E-06 | 467508.9  | 3729957.9 | 428.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001230 |     | 0 | 0.18760E-06 | 467516.3  | 3729953.7 | 430.4 | 0.00 | 3.95 |

WorkerDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0001231 |     | 0 | 0.18760E-06 | 467523.7 | 3729949.4 | 431.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001232 |     | 0 | 0.18760E-06 | 467531.1 | 3729945.2 | 433.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001233 |     | 0 | 0.18760E-06 | 467538.4 | 3729941.0 | 434.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001234 |     | 0 | 0.18760E-06 | 467545.8 | 3729936.7 | 434.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001235 |     | 0 | 0.18760E-06 | 467553.2 | 3729932.5 | 434.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001236 |     | 0 | 0.18760E-06 | 467560.4 | 3729928.0 | 434.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001237 |     | 0 | 0.18760E-06 | 467567.0 | 3729922.6 | 433.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001238 |     | 0 | 0.18760E-06 | 467573.6 | 3729917.3 | 432.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001239 |     | 0 | 0.18760E-06 | 467580.2 | 3729911.9 | 431.8 | 0.00 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 14:49:12

\*\*MODELOPTs: RegDFAULT CONC PAGE 6  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| L0001240 |     | 0 | 0.18760E-06 | 467586.8 | 3729906.6 | 430.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001241 |     | 0 | 0.18760E-06 | 467593.4 | 3729901.2 | 429.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001242 |     | 0 | 0.18760E-06 | 467600.0 | 3729895.9 | 429.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001243 |     | 0 | 0.18760E-06 | 467606.6 | 3729890.5 | 429.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001244 |     | 0 | 0.18760E-06 | 467613.2 | 3729885.1 | 429.0 | 0.00 3.95 |

|          |     |   |             | WorkerDPM |           |       |      |      |
|----------|-----|---|-------------|-----------|-----------|-------|------|------|
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001245 |     | 0 | 0.18760E-06 | 467619.8  | 3729879.8 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001246 |     | 0 | 0.18760E-06 | 467626.4  | 3729874.4 | 429.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001247 |     | 0 | 0.18760E-06 | 467633.0  | 3729869.1 | 429.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001248 |     | 0 | 0.18760E-06 | 467639.2  | 3729863.4 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001249 |     | 0 | 0.18760E-06 | 467644.9  | 3729857.0 | 428.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001250 |     | 0 | 0.18760E-06 | 467650.6  | 3729850.7 | 427.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001251 |     | 0 | 0.18760E-06 | 467656.3  | 3729844.4 | 426.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001252 |     | 0 | 0.18760E-06 | 467662.0  | 3729838.1 | 425.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001253 |     | 0 | 0.18760E-06 | 467667.7  | 3729831.8 | 423.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001254 |     | 0 | 0.18760E-06 | 467673.7  | 3729825.8 | 423.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001255 |     | 0 | 0.18760E-06 | 467679.8  | 3729819.9 | 422.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001256 |     | 0 | 0.18760E-06 | 467685.8  | 3729813.9 | 422.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001257 |     | 0 | 0.18760E-06 | 467691.9  | 3729808.0 | 422.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001258 |     | 0 | 0.18760E-06 | 467698.0  | 3729802.0 | 421.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001259 |     | 0 | 0.18760E-06 | 467704.1  | 3729796.1 | 421.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001260 |     | 0 | 0.18760E-06 | 467710.1  | 3729790.1 | 420.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001261 |     | 0 | 0.18760E-06 | 467716.2  | 3729784.2 | 420.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001262 |     | 0 | 0.10020E-06 | 467769.4  | 3729733.1 | 414.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001263 |     | 0 | 0.10020E-06 | 467761.2  | 3729735.1 | 414.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001264 |     | 0 | 0.10020E-06 | 467752.9  | 3729737.0 | 414.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001265 |     | 0 | 0.10020E-06 | 467744.6  | 3729738.9 | 414.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001266 |     | 0 | 0.10020E-06 | 467736.3  | 3729740.9 | 414.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001267 |     | 0 | 0.10020E-06 | 467728.0  | 3729742.8 | 414.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |           |           |       |      |      |
| L0001268 |     | 0 | 0.10020E-06 | 467719.8  | 3729744.8 | 414.7 | 0.00 | 3.95 |

WorkerDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001269 |     | 0 | 0.10020E-06 | 467712.4 | 3729749.0 | 414.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001270 |     | 0 | 0.10020E-06 | 467705.1 | 3729753.3 | 415.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001271 |     | 0 | 0.10020E-06 | 467697.7 | 3729757.6 | 414.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001272 |     | 0 | 0.10020E-06 | 467690.4 | 3729761.9 | 414.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001273 |     | 0 | 0.10020E-06 | 467682.9 | 3729766.0 | 414.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001274 |     | 0 | 0.10020E-06 | 467675.5 | 3729770.1 | 414.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001275 |     | 0 | 0.10020E-06 | 467668.1 | 3729774.2 | 414.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001276 |     | 0 | 0.10020E-06 | 467660.7 | 3729778.4 | 413.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001277 |     | 0 | 0.10020E-06 | 467653.7 | 3729783.2 | 413.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001278 |     | 0 | 0.10020E-06 | 467645.9 | 3729786.2 | 413.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001279 |     | 0 | 0.10020E-06 | 467637.6 | 3729788.0 | 412.8 | 0.00 | 3.95 |

1.86 YES

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
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09/11/15

\*\*\* AERMET - VERSION 14134 \*\*\*  
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14:49:12

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0001280 |     | 0 | 0.10020E-06 | 467629.4 | 3729790.2 | 412.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001281 |     | 0 | 0.10020E-06 | 467621.7 | 3729793.7 | 412.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001282 |     | 0 | 0.10020E-06 | 467613.9 | 3729797.2 | 411.7 | 0.00 | 3.95 |

|          |     | WorkerDPM |             |          |           |       |      |      |
|----------|-----|-----------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001283 |     | 0         | 0.10020E-06 | 467606.2 | 3729800.7 | 411.5 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001284 |     | 0         | 0.10020E-06 | 467598.1 | 3729802.7 | 411.2 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001285 |     | 0         | 0.10020E-06 | 467589.6 | 3729802.9 | 410.7 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001286 |     | 0         | 0.10020E-06 | 467581.1 | 3729803.1 | 410.6 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001287 |     | 0         | 0.10020E-06 | 467572.6 | 3729803.3 | 410.6 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001288 |     | 0         | 0.10020E-06 | 467564.1 | 3729803.6 | 410.5 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001289 |     | 0         | 0.10020E-06 | 467555.6 | 3729803.8 | 410.4 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001290 |     | 0         | 0.10020E-06 | 467547.1 | 3729804.0 | 410.0 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001291 |     | 0         | 0.10020E-06 | 467538.6 | 3729804.2 | 409.7 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001292 |     | 0         | 0.10020E-06 | 467530.1 | 3729804.5 | 409.3 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001293 |     | 0         | 0.10020E-06 | 467521.6 | 3729804.7 | 408.1 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001294 |     | 0         | 0.10020E-06 | 467513.1 | 3729805.0 | 406.9 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001295 |     | 0         | 0.10020E-06 | 467504.6 | 3729805.3 | 405.7 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001296 |     | 0         | 0.10020E-06 | 467496.1 | 3729805.6 | 404.7 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001297 |     | 0         | 0.10020E-06 | 467487.6 | 3729805.9 | 404.1 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001298 |     | 0         | 0.10020E-06 | 467479.1 | 3729806.2 | 403.4 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001299 |     | 0         | 0.10020E-06 | 467470.6 | 3729806.5 | 402.7 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001300 |     | 0         | 0.10020E-06 | 467462.1 | 3729806.8 | 402.5 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001301 |     | 0         | 0.10020E-06 | 467453.7 | 3729807.1 | 402.3 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001302 |     | 0         | 0.10020E-06 | 467445.2 | 3729807.4 | 402.1 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001303 |     | 0         | 0.10020E-06 | 467436.8 | 3729809.0 | 402.0 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001304 |     | 0         | 0.10020E-06 | 467428.6 | 3729811.0 | 401.8 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001305 |     | 0         | 0.10020E-06 | 467420.3 | 3729813.0 | 401.6 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001306 |     | 0         | 0.10020E-06 | 467412.1 | 3729815.1 | 401.4 | 0.00 | 3.95 |

WorkerDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001307 |     | 0 | 0.10020E-06 | 467403.8 | 3729817.1 | 401.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001308 |     | 0 | 0.10020E-06 | 467395.6 | 3729819.1 | 400.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001309 |     | 0 | 0.10020E-06 | 467387.3 | 3729821.1 | 400.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001310 |     | 0 | 0.10020E-06 | 467379.1 | 3729823.2 | 400.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001311 |     | 0 | 0.10020E-06 | 467370.8 | 3729825.2 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001312 |     | 0 | 0.10020E-06 | 467362.5 | 3729827.2 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001313 |     | 0 | 0.10020E-06 | 467354.3 | 3729829.2 | 399.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001314 |     | 0 | 0.10020E-06 | 467346.0 | 3729831.2 | 399.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001315 |     | 0 | 0.10020E-06 | 467337.8 | 3729833.3 | 399.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001316 |     | 0 | 0.10020E-06 | 467329.4 | 3729834.7 | 399.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001317 |     | 0 | 0.10020E-06 | 467321.0 | 3729835.9 | 398.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001318 |     | 0 | 0.10020E-06 | 467312.6 | 3729837.1 | 398.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001319 |     | 0 | 0.10020E-06 | 467304.2 | 3729838.3 | 398.3 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 14:49:12

\*\*MODELOPTs: RegDFAULT CONC PAGE 8  
 ELEV URBAN

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

| INIT.    | URBAN       | NUMBER EMISSION RATE | BASE     | RELEASE   | INIT.    |
|----------|-------------|----------------------|----------|-----------|----------|
| SOURCE   | SCALAR VARY | PART. (GRAMS/SEC)    | ELEV.    | HEIGHT    | SY       |
| SZ       | ID          | CATS.                | (METERS) | (METERS)  | (METERS) |
| (METERS) | BY          |                      |          |           |          |
| L0001320 | 0           | 0.10020E-06          | 467295.7 | 3729839.5 | 398.1    |
|          |             |                      |          |           | 0.00     |
|          |             |                      |          |           | 3.95     |

|          |     | WorkerDPM |             |          |           |       |      |      |
|----------|-----|-----------|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001321 |     | 0         | 0.10020E-06 | 467287.3 | 3729839.0 | 398.0 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001322 |     | 0         | 0.10020E-06 | 467278.8 | 3729838.5 | 397.8 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001323 |     | 0         | 0.10020E-06 | 467270.3 | 3729837.9 | 397.6 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001324 |     | 0         | 0.10020E-06 | 467261.8 | 3729837.4 | 397.4 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001325 |     | 0         | 0.10020E-06 | 467253.3 | 3729836.9 | 397.6 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001326 |     | 0         | 0.10020E-06 | 467244.8 | 3729836.3 | 397.8 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001327 |     | 0         | 0.10020E-06 | 467236.4 | 3729835.8 | 398.1 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001328 |     | 0         | 0.10020E-06 | 467227.9 | 3729835.3 | 398.4 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001329 |     | 0         | 0.10020E-06 | 467219.4 | 3729834.8 | 398.8 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001330 |     | 0         | 0.10020E-06 | 467211.1 | 3729833.0 | 399.3 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001331 |     | 0         | 0.10020E-06 | 467202.9 | 3729830.8 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001332 |     | 0         | 0.10020E-06 | 467194.7 | 3729828.7 | 400.7 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001333 |     | 0         | 0.10020E-06 | 467186.4 | 3729826.5 | 401.4 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001334 |     | 0         | 0.10020E-06 | 467178.2 | 3729824.4 | 401.8 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001335 |     | 0         | 0.10020E-06 | 467170.0 | 3729822.2 | 402.0 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001336 |     | 0         | 0.10020E-06 | 467161.8 | 3729820.1 | 401.8 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001337 |     | 0         | 0.10020E-06 | 467153.5 | 3729817.9 | 401.6 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001338 |     | 0         | 0.10020E-06 | 467145.3 | 3729815.8 | 401.5 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001339 |     | 0         | 0.10020E-06 | 467137.1 | 3729813.6 | 401.3 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001340 |     | 0         | 0.10020E-06 | 467128.9 | 3729811.5 | 400.9 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001341 |     | 0         | 0.10020E-06 | 467120.7 | 3729809.3 | 400.6 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001342 |     | 0         | 0.10020E-06 | 467112.4 | 3729807.2 | 400.4 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001343 |     | 0         | 0.10020E-06 | 467104.2 | 3729805.0 | 399.8 | 0.00 | 3.95 |
| 1.86     | YES |           |             |          |           |       |      |      |
| L0001344 |     | 0         | 0.10020E-06 | 467096.0 | 3729802.9 | 398.8 | 0.00 | 3.95 |

WorkerDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001345 |     | 0 | 0.10020E-06 | 467087.7 | 3729801.1 | 397.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001346 |     | 0 | 0.10020E-06 | 467079.4 | 3729799.3 | 396.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001347 |     | 0 | 0.10020E-06 | 467071.1 | 3729797.5 | 396.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001348 |     | 0 | 0.10020E-06 | 467062.8 | 3729795.6 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001349 |     | 0 | 0.10020E-06 | 467054.5 | 3729793.8 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001350 |     | 0 | 0.10020E-06 | 467046.2 | 3729792.0 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001351 |     | 0 | 0.10020E-06 | 467037.9 | 3729790.2 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001352 |     | 0 | 0.10020E-06 | 467029.6 | 3729788.3 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001353 |     | 0 | 0.10020E-06 | 467021.3 | 3729786.5 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001354 |     | 0 | 0.10020E-06 | 467013.0 | 3729784.7 | 397.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001355 |     | 0 | 0.10020E-06 | 467004.6 | 3729782.9 | 398.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001356 |     | 0 | 0.10020E-06 | 466996.3 | 3729781.1 | 399.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001357 |     | 0 | 0.10020E-06 | 466988.0 | 3729779.2 | 401.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001358 |     | 0 | 0.10020E-06 | 466979.7 | 3729777.4 | 401.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001359 |     | 0 | 0.10020E-06 | 466971.4 | 3729775.6 | 402.6 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:49:12

\*\*\*MODELOPTs: RegDFAULT CONC PAGE 9  
 ELEV URBAN

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

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

WorkerDPM

|          |   |             |          |           |       |      |      |
|----------|---|-------------|----------|-----------|-------|------|------|
| -----    |   |             |          |           |       |      |      |
| -----    |   |             |          |           |       |      |      |
| L0001360 | 0 | 0.10020E-06 | 466963.1 | 3729773.8 | 403.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001361 | 0 | 0.10020E-06 | 466954.8 | 3729771.9 | 403.0 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001362 | 0 | 0.10020E-06 | 466946.5 | 3729770.1 | 402.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001363 | 0 | 0.10020E-06 | 466938.2 | 3729768.3 | 402.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001364 | 0 | 0.10020E-06 | 466929.9 | 3729766.5 | 402.0 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001365 | 0 | 0.10020E-06 | 466921.6 | 3729764.6 | 401.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001366 | 0 | 0.10020E-06 | 466913.4 | 3729762.6 | 401.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001367 | 0 | 0.10020E-06 | 466905.1 | 3729760.5 | 400.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001368 | 0 | 0.10020E-06 | 466896.9 | 3729758.3 | 399.9 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001369 | 0 | 0.10020E-06 | 466888.7 | 3729756.2 | 398.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001370 | 0 | 0.10020E-06 | 466880.5 | 3729754.1 | 397.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001371 | 0 | 0.10020E-06 | 466872.2 | 3729752.0 | 396.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001372 | 0 | 0.10020E-06 | 466864.0 | 3729749.9 | 396.5 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001373 | 0 | 0.10020E-06 | 466855.8 | 3729747.7 | 396.4 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001374 | 0 | 0.10020E-06 | 466847.5 | 3729745.6 | 396.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001375 | 0 | 0.10020E-06 | 466839.3 | 3729743.5 | 396.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001376 | 0 | 0.10020E-06 | 466831.1 | 3729741.4 | 397.2 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001377 | 0 | 0.10020E-06 | 466822.8 | 3729739.2 | 398.2 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001378 | 0 | 0.10020E-06 | 466814.6 | 3729737.1 | 399.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001379 | 0 | 0.10020E-06 | 466806.4 | 3729735.0 | 400.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001380 | 0 | 0.10020E-06 | 466798.1 | 3729732.9 | 400.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001381 | 0 | 0.10020E-06 | 466789.9 | 3729730.8 | 400.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001382 | 0 | 0.10020E-06 | 466781.7 | 3729728.6 | 400.9 | 0.00 | 3.95 |

# WorkerDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001383 |     | 0 | 0.10020E-06 | 466773.5 | 3729726.5 | 401.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001384 |     | 0 | 0.10020E-06 | 466765.2 | 3729724.4 | 402.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001385 |     | 0 | 0.10020E-06 | 466757.0 | 3729722.3 | 402.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001386 |     | 0 | 0.10020E-06 | 466748.8 | 3729720.1 | 403.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001387 |     | 0 | 0.10020E-06 | 466740.5 | 3729718.0 | 403.1 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:49:12

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

## \*\*\* AREAPOLY SOURCE DATA \*\*\*

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

|        |     |             |          |           |       |      |    |
|--------|-----|-------------|----------|-----------|-------|------|----|
| PAREA1 | 0   | 0.23635E-08 | 467190.2 | 3730371.0 | 488.2 | 5.00 | 72 |
| 1.00   | YES |             |          |           |       |      |    |

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

## \*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

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

WorkerDPM

|          |            |            |            |            |            |   |
|----------|------------|------------|------------|------------|------------|---|
| ALL      | PAREA1     | , L0001080 | , L0001081 | , L0001082 | , L0001083 | , |
| L0001084 | , L0001085 | , L0001086 | ,          |            |            |   |
|          | L0001087   | , L0001088 | , L0001089 | , L0001090 | , L0001091 | , |
| L0001092 | , L0001093 | , L0001094 | ,          |            |            |   |
|          | L0001095   | , L0001096 | , L0001097 | , L0001098 | , L0001099 | , |
| L0001100 | , L0001101 | , L0001102 | ,          |            |            |   |
|          | L0001103   | , L0001104 | , L0001105 | , L0001106 | , L0001107 | , |
| L0001108 | , L0001109 | , L0001110 | ,          |            |            |   |
|          | L0001111   | , L0001112 | , L0001113 | , L0001114 | , L0001115 | , |
| L0001116 | , L0001117 | , L0001118 | ,          |            |            |   |
|          | L0001119   | , L0001120 | , L0001121 | , L0001122 | , L0001123 | , |
| L0001124 | , L0001125 | , L0001126 | ,          |            |            |   |
|          | L0001127   | , L0001128 | , L0001129 | , L0001130 | , L0001131 | , |
| L0001132 | , L0001133 | , L0001134 | ,          |            |            |   |
|          | L0001135   | , L0001136 | , L0001137 | , L0001138 | , L0001139 | , |
| L0001140 | , L0001141 | , L0001142 | ,          |            |            |   |
|          | L0001143   | , L0001144 | , L0001145 | , L0001146 | , L0001147 | , |
| L0001148 | , L0001149 | , L0001150 | ,          |            |            |   |
|          | L0001151   | , L0001152 | , L0001153 | , L0001154 | , L0001155 | , |
| L0001156 | , L0001157 | , L0001158 | ,          |            |            |   |
|          | L0001159   | , L0001160 | , L0001161 | , L0001162 | , L0001163 | , |
| L0001164 | , L0001165 | , L0001166 | ,          |            |            |   |
|          | L0001167   | , L0001168 | , L0001169 | , L0001170 | , L0001171 | , |
| L0001172 | , L0001173 | , L0001174 | ,          |            |            |   |
|          | L0001175   | , L0001176 | , L0001177 | , L0001178 | , L0001179 | , |
| L0001180 | , L0001181 | , L0001182 | ,          |            |            |   |
|          | L0001183   | , L0001184 | , L0001185 | , L0001186 | , L0001187 | , |
| L0001188 | , L0001189 | , L0001190 | ,          |            |            |   |
|          | L0001191   | , L0001192 | , L0001193 | , L0001194 | , L0001195 | , |
| L0001196 | , L0001197 | , L0001198 | ,          |            |            |   |
|          | L0001199   | , L0001200 | , L0001201 | , L0001202 | , L0001203 | , |
| L0001204 | , L0001205 | , L0001206 | ,          |            |            |   |

# WorkerDPM

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L0001212      L0001207      , L0001208      , L0001209      , L0001210      , L0001211      ,
, L0001213      , L0001214      ,

L0001220      L0001215      , L0001216      , L0001217      , L0001218      , L0001219      ,
, L0001221      , L0001222      ,

L0001228      L0001223      , L0001224      , L0001225      , L0001226      , L0001227      ,
, L0001229      , L0001230      ,

L0001236      L0001231      , L0001232      , L0001233      , L0001234      , L0001235      ,
, L0001237      , L0001238      ,
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 \*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

## \*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

| SRCGROUP ID | SOURCE IDs                                                                        |
|-------------|-----------------------------------------------------------------------------------|
| -----       | -----                                                                             |
| L0001244    | L0001239 , L0001240 , L0001241 , L0001242 , L0001243 ,<br>, L0001245 , L0001246 , |
| L0001252    | L0001247 , L0001248 , L0001249 , L0001250 , L0001251 ,<br>, L0001253 , L0001254 , |
| L0001260    | L0001255 , L0001256 , L0001257 , L0001258 , L0001259 ,<br>, L0001261 , L0001262 , |
| L0001268    | L0001263 , L0001264 , L0001265 , L0001266 , L0001267 ,<br>, L0001269 , L0001270 , |
| L0001276    | L0001271 , L0001272 , L0001273 , L0001274 , L0001275 ,<br>, L0001277 , L0001278 , |
| L0001284    | L0001279 , L0001280 , L0001281 , L0001282 , L0001283 ,<br>, L0001285 , L0001286 , |
| L0001292    | L0001287 , L0001288 , L0001289 , L0001290 , L0001291 ,<br>, L0001293 , L0001294 , |

# WorkerDPM

|          |                        |                          |                 |            |            |   |
|----------|------------------------|--------------------------|-----------------|------------|------------|---|
| L0001300 | L0001295<br>, L0001301 | , L0001296<br>, L0001302 | , L0001297<br>, | , L0001298 | , L0001299 | , |
| L0001308 | L0001303<br>, L0001309 | , L0001304<br>, L0001310 | , L0001305<br>, | , L0001306 | , L0001307 | , |
| L0001316 | L0001311<br>, L0001317 | , L0001312<br>, L0001318 | , L0001313<br>, | , L0001314 | , L0001315 | , |
| L0001324 | L0001319<br>, L0001325 | , L0001320<br>, L0001326 | , L0001321<br>, | , L0001322 | , L0001323 | , |
| L0001332 | L0001327<br>, L0001333 | , L0001328<br>, L0001334 | , L0001329<br>, | , L0001330 | , L0001331 | , |
| L0001340 | L0001335<br>, L0001341 | , L0001336<br>, L0001342 | , L0001337<br>, | , L0001338 | , L0001339 | , |
| L0001348 | L0001343<br>, L0001349 | , L0001344<br>, L0001350 | , L0001345<br>, | , L0001346 | , L0001347 | , |
| L0001356 | L0001351<br>, L0001357 | , L0001352<br>, L0001358 | , L0001353<br>, | , L0001354 | , L0001355 | , |
| L0001364 | L0001359<br>, L0001365 | , L0001360<br>, L0001366 | , L0001361<br>, | , L0001362 | , L0001363 | , |
| L0001372 | L0001367<br>, L0001373 | , L0001368<br>, L0001374 | , L0001369<br>, | , L0001370 | , L0001371 | , |
| L0001380 | L0001375<br>, L0001381 | , L0001376<br>, L0001382 | , L0001377<br>, | , L0001378 | , L0001379 | , |
|          | L0001383               | , L0001384               | , L0001385      | , L0001386 | , L0001387 | , |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

\*\*\*

URBAN ID URBAN POP

SOURCE IDs

## WorkerDPM

| -----                | -----                       |                          |                 | -----                         |
|----------------------|-----------------------------|--------------------------|-----------------|-------------------------------|
| L0001083<br>L0001086 | 2100516.<br>, L0001084<br>, | PAREA1<br>, L0001085     | , L0001080<br>, | , L0001081<br>, L0001082<br>, |
| L0001092             | L0001087<br>, L0001093      | , L0001088<br>, L0001094 | , L0001089<br>, | , L0001090<br>, L0001091<br>, |
| L0001100             | L0001095<br>, L0001101      | , L0001096<br>, L0001102 | , L0001097<br>, | , L0001098<br>, L0001099<br>, |
| L0001108             | L0001103<br>, L0001109      | , L0001104<br>, L0001110 | , L0001105<br>, | , L0001106<br>, L0001107<br>, |
| L0001116             | L0001111<br>, L0001117      | , L0001112<br>, L0001118 | , L0001113<br>, | , L0001114<br>, L0001115<br>, |
| L0001124             | L0001119<br>, L0001125      | , L0001120<br>, L0001126 | , L0001121<br>, | , L0001122<br>, L0001123<br>, |
| L0001132             | L0001127<br>, L0001133      | , L0001128<br>, L0001134 | , L0001129<br>, | , L0001130<br>, L0001131<br>, |
| L0001140             | L0001135<br>, L0001141      | , L0001136<br>, L0001142 | , L0001137<br>, | , L0001138<br>, L0001139<br>, |
| L0001148             | L0001143<br>, L0001149      | , L0001144<br>, L0001150 | , L0001145<br>, | , L0001146<br>, L0001147<br>, |
| L0001156             | L0001151<br>, L0001157      | , L0001152<br>, L0001158 | , L0001153<br>, | , L0001154<br>, L0001155<br>, |
| L0001164             | L0001159<br>, L0001165      | , L0001160<br>, L0001166 | , L0001161<br>, | , L0001162<br>, L0001163<br>, |
| L0001172             | L0001167<br>, L0001173      | , L0001168<br>, L0001174 | , L0001169<br>, | , L0001170<br>, L0001171<br>, |
| L0001180             | L0001175<br>, L0001181      | , L0001176<br>, L0001182 | , L0001177<br>, | , L0001178<br>, L0001179<br>, |
| L0001188             | L0001183<br>, L0001189      | , L0001184<br>, L0001190 | , L0001185<br>, | , L0001186<br>, L0001187<br>, |
| L0001196             | L0001191<br>, L0001197      | , L0001192<br>, L0001198 | , L0001193<br>, | , L0001194<br>, L0001195<br>, |

# WorkerDPM

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L0001204      L0001199      , L0001200      , L0001201      , L0001202      , L0001203      ,
, L0001205      , L0001206      ,

L0001212      L0001207      , L0001208      , L0001209      , L0001210      , L0001211      ,
, L0001213      , L0001214      ,

L0001220      L0001215      , L0001216      , L0001217      , L0001218      , L0001219      ,
, L0001221      , L0001222      ,

L0001228      L0001223      , L0001224      , L0001225      , L0001226      , L0001227      ,
, L0001229      , L0001230      ,

L0001236      L0001231      , L0001232      , L0001233      , L0001234      , L0001235      ,
, L0001237      , L0001238      ,

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

\*\*\*

| URBAN ID | URBAN POP                                                                       | SOURCE IDs |
|----------|---------------------------------------------------------------------------------|------------|
| -----    | -----                                                                           | -----      |
| L0001244 | L0001239 , L0001240 , L0001241 , L0001242 , L0001243 ,<br>L0001245 , L0001246 , |            |
| L0001252 | L0001247 , L0001248 , L0001249 , L0001250 , L0001251 ,<br>L0001253 , L0001254 , |            |
| L0001260 | L0001255 , L0001256 , L0001257 , L0001258 , L0001259 ,<br>L0001261 , L0001262 , |            |
| L0001268 | L0001263 , L0001264 , L0001265 , L0001266 , L0001267 ,<br>L0001269 , L0001270 , |            |
| L0001276 | L0001271 , L0001272 , L0001273 , L0001274 , L0001275 ,<br>L0001277 , L0001278 , |            |
| L0001284 | L0001279 , L0001280 , L0001281 , L0001282 , L0001283 ,<br>L0001285 , L0001286 , |            |

# WorkerDPM

|          |                        |                          |                 |            |            |   |
|----------|------------------------|--------------------------|-----------------|------------|------------|---|
| L0001292 | L0001287<br>, L0001293 | , L0001288<br>, L0001294 | , L0001289<br>, | , L0001290 | , L0001291 | , |
| L0001300 | L0001295<br>, L0001301 | , L0001296<br>, L0001302 | , L0001297<br>, | , L0001298 | , L0001299 | , |
| L0001308 | L0001303<br>, L0001309 | , L0001304<br>, L0001310 | , L0001305<br>, | , L0001306 | , L0001307 | , |
| L0001316 | L0001311<br>, L0001317 | , L0001312<br>, L0001318 | , L0001313<br>, | , L0001314 | , L0001315 | , |
| L0001324 | L0001319<br>, L0001325 | , L0001320<br>, L0001326 | , L0001321<br>, | , L0001322 | , L0001323 | , |
| L0001332 | L0001327<br>, L0001333 | , L0001328<br>, L0001334 | , L0001329<br>, | , L0001330 | , L0001331 | , |
| L0001340 | L0001335<br>, L0001341 | , L0001336<br>, L0001342 | , L0001337<br>, | , L0001338 | , L0001339 | , |
| L0001348 | L0001343<br>, L0001349 | , L0001344<br>, L0001350 | , L0001345<br>, | , L0001346 | , L0001347 | , |
| L0001356 | L0001351<br>, L0001357 | , L0001352<br>, L0001358 | , L0001353<br>, | , L0001354 | , L0001355 | , |
| L0001364 | L0001359<br>, L0001365 | , L0001360<br>, L0001366 | , L0001361<br>, | , L0001362 | , L0001363 | , |
| L0001372 | L0001367<br>, L0001373 | , L0001368<br>, L0001374 | , L0001369<br>, | , L0001370 | , L0001371 | , |
| L0001380 | L0001375<br>, L0001381 | , L0001376<br>, L0001382 | , L0001377<br>, | , L0001378 | , L0001379 | , |
|          | L0001383               | , L0001384               | , L0001385      | , L0001386 | , L0001387 | , |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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



## WorkerDPM

10.80,

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\*\*\* AERMET - VERSION 14134 \*\*\*

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\*\*MODELOPTs: RegDFAULT CONC

ELEV

URBAN

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

DATA \*\*\*

Surface file: ..\elsi8.sfc

Met Version: 14134

Profile file: ..\elsi8.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3190

Name: UNKNOWN

Upper air station no.: 3190

Name: UNKNOWN

Year: 2008

Year: 2008

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     |        |       |       |          |      |      |       |
| -      | -      | -    | -   | -  | -      | -      | -      | -      | -     | -     | -        | -    | -    | -     |
| -      | -      | -    | -   | -  | -      | -      | -      | -      | -     | -     | -        | -    | -    | -     |
| 08     | 01     | 01   | 1   | 01 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 284.2  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 02 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 03 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 04 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 05 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 06 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 07 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 08 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 0.54   | 999.00 | 999. |     |    | -9.0   | 283.8  | 5.5    |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 09 | 27.2   | -9.000 | -9.000 | -9.000 | 60.   | -999. | -99999.0 | 0.23 | 1.00 |       |
| 0.33   | 999.00 | 999. |     |    | -9.0   | 285.9  | 5.5    |        |       |       |          |      |      |       |

| WorkerDPM |        |      |   |    |        |        |        |        |       |       |          |      |      |
|-----------|--------|------|---|----|--------|--------|--------|--------|-------|-------|----------|------|------|
| 08        | 01     | 01   | 1 | 10 | 74.6   | -9.000 | -9.000 | -9.000 | 157.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.25      | 999.00 | 999. |   |    | -9.0   | 288.1  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 11 | 107.4  | -9.000 | -9.000 | -9.000 | 375.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.23      | 999.00 | 999. |   |    | -9.0   | 289.9  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 12 | 122.7  | -9.000 | -9.000 | -9.000 | 578.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.22      | 999.00 | 999. |   |    | -9.0   | 289.9  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 13 | 121.3  | -9.000 | -9.000 | -9.000 | 714.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.22      | 999.00 | 999. |   |    | -9.0   | 291.4  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 14 | 102.1  | -9.000 | -9.000 | -9.000 | 763.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.23      | 999.00 | 999. |   |    | -9.0   | 292.0  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 15 | 65.8   | -9.000 | -9.000 | -9.000 | 792.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.27      | 999.00 | 999. |   |    | -9.0   | 291.4  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 16 | 16.0   | -9.000 | -9.000 | -9.000 | 798.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.36      | 999.00 | 999. |   |    | -9.0   | 290.4  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 17 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 0.63      | 999.00 | 999. |   |    | -9.0   | 288.8  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 18 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00      | 999.00 | 999. |   |    | -9.0   | 287.5  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 19 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00      | 999.00 | 999. |   |    | -9.0   | 286.4  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 20 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00      | 999.00 | 999. |   |    | -9.0   | 285.4  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 21 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00      | 999.00 | 999. |   |    | -9.0   | 284.2  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 22 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00      | 999.00 | 999. |   |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 23 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00      | 999.00 | 999. |   |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |
| 08        | 01     | 01   | 1 | 24 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00      | 999.00 | 999. |   |    | -9.0   | 282.5  | 5.5    |        |       |       |          |      |      |

First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 08 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 284.3   | 99.0   | -99.00 | -99.00 |
| 08 | 01 | 01 | 01 | 9.1    | 1 | -999. | -99.00 | -999.0  | 99.0   | -99.00 | -99.00 |

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

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

WorkerDPM

INCLUDING SOURCE(S): PAREA1 , L0001080

|            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|
| , L0001081 | , L0001082 | , L0001083 | , L0001084 | , L0001085 | , L0001086 | , L0001087 | , L0001088 |
| , L0001089 | , L0001090 | , L0001091 | , L0001092 | , L0001093 | , L0001094 | , L0001095 | , L0001096 |
| , L0001097 | , L0001098 | , L0001099 | , L0001100 | , L0001101 | , L0001102 | , L0001103 | , L0001104 |
| , L0001105 | , L0001106 | , . . .    |            |            |            |            |            |

\*\*\* 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        |         |             |
| 467691.85   | 3729489.42  | 0.00212 | 467579.06   |
| 3729454.38  | 0.00165     |         |             |
| 467520.10   | 3729393.71  | 0.00127 | 467463.70   |
| 3729319.37  | 0.00098     |         |             |
| 467649.98   | 3729387.73  | 0.00145 | 467709.79   |
| 3729097.21  | 0.00074     |         |             |
| 467824.29   | 3728994.67  | 0.00065 |             |

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\*\*\*MODELOPTs: RegDFAULT CONC PAGE 19  
 ELEV URBAN

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

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

\*\*

NETWORK

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

# WorkerDPM

|         |                       |              |            |             |
|---------|-----------------------|--------------|------------|-------------|
| ALL     | 1ST HIGHEST VALUE IS  | 0.00212 AT ( | 467691.85, | 3729489.42, |
| 409.87, | 635.00, 0.00) DC      |              |            |             |
|         | 2ND HIGHEST VALUE IS  | 0.00165 AT ( | 467579.06, | 3729454.38, |
| 408.00, | 635.00, 0.00) DC      |              |            |             |
|         | 3RD HIGHEST VALUE IS  | 0.00145 AT ( | 467649.98, | 3729387.73, |
| 407.39, | 635.00, 0.00) DC      |              |            |             |
|         | 4TH HIGHEST VALUE IS  | 0.00127 AT ( | 467520.10, | 3729393.71, |
| 406.39, | 635.00, 0.00) DC      |              |            |             |
|         | 5TH HIGHEST VALUE IS  | 0.00098 AT ( | 467463.70, | 3729319.37, |
| 402.91, | 635.00, 0.00) DC      |              |            |             |
|         | 6TH HIGHEST VALUE IS  | 0.00074 AT ( | 467709.79, | 3729097.21, |
| 398.41, | 635.00, 0.00) DC      |              |            |             |
|         | 7TH HIGHEST VALUE IS  | 0.00065 AT ( | 467824.29, | 3728994.67, |
| 397.24, | 635.00, 0.00) DC      |              |            |             |
|         | 8TH HIGHEST VALUE IS  | 0.00000 AT ( | 0.00,      | 0.00,       |
| 0.00,   | 0.00, 0.00)           |              |            |             |
|         | 9TH HIGHEST VALUE IS  | 0.00000 AT ( | 0.00,      | 0.00,       |
| 0.00,   | 0.00, 0.00)           |              |            |             |
|         | 10TH HIGHEST VALUE IS | 0.00000 AT ( | 0.00,      | 0.00,       |
| 0.00,   | 0.00, 0.00)           |              |            |             |

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

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\WorkerDPM\WorkerDPM.isc \*\*\*

09/11/15

\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\*

14:49:12

PAGE 20

\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)

A Total of 1 Warning Message(s)

A Total of 1916 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 10 Calm Hours Identified

A Total of 1906 Missing Hours Identified ( 4.35 Percent)

## WorkerDPM

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W531 799 MEOPEN: CAUTION! Met Station ID Missing from SURFFILE for  
SURFDATA

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

# SchoolDPM

\*\*

\*\*\*\*\*

\*\*

\*\* AERMOD Input Produced by:

\*\* AERMOD View Ver. 9.0.0

\*\* Lakes Environmental Software Inc.

\*\* Date: 9/11/2015

\*\* File: C:\Lakes\AERMOD View\NicholsMine\SchoolDPM\SchoolDPM.ADI

\*\*

\*\*\*\*\*

\*\*

\*\*

\*\*\*\*\*

\*\* AERMOD Control Pathway

\*\*\*\*\*

\*\*

\*\*

CO STARTING

TITLEONE C:\Lakes\AERMOD View\NicholsMine\SchoolDPM\SchoolDPM.isc

MODELOPT DFAULT CONC

AVERTIME ANNUAL

URBANOPT 2100516

POLLUTID DPM

RUNORNOT RUN

ERRORFIL SchoolDPM.err

CO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Source Pathway

\*\*\*\*\*

\*\*

\*\*

SO STARTING

\*\* Source Location \*\*

\*\* Source ID - Type - X Coord. - Y Coord. \*\*

|          |        |          |            |             |         |
|----------|--------|----------|------------|-------------|---------|
| LOCATION | PAREA1 | AREAPOLY | 467190.199 | 3730371.004 | 488.240 |
|----------|--------|----------|------------|-------------|---------|

\*\* DESCRSRC On-Site Equipment

\*\* -----

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE1

\*\* DESCRSRC On-Site Idling

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 7.451E-06

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 11

SchoolDPM

\*\* 467252.240, 3730357.231, 502.79, 0.00, 3.95  
 \*\* 467301.041, 3730331.128, 509.58, 0.00, 3.95  
 \*\* 467357.787, 3730278.922, 517.06, 0.00, 3.95  
 \*\* 467398.643, 3730210.828, 508.31, 0.00, 3.95  
 \*\* 467432.691, 3730090.528, 475.46, 0.00, 3.95  
 \*\* 467455.389, 3730005.410, 436.97, 0.00, 3.95  
 \*\* 467489.436, 3729969.093, 426.89, 0.00, 3.95  
 \*\* 467558.665, 3729929.371, 429.01, 0.00, 3.95  
 \*\* 467636.974, 3729865.816, 424.62, 0.00, 3.95  
 \*\* 467668.751, 3729830.634, 421.78, 0.00, 3.95  
 \*\* 467720.957, 3729779.563, 415.97, 0.00, 3.95

\*\* -----

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0000772 | VOLUME | 467255.988 | 3730355.226 | 501.52 |
| LOCATION L0000773 | VOLUME | 467263.483 | 3730351.217 | 502.88 |
| LOCATION L0000774 | VOLUME | 467270.978 | 3730347.208 | 504.79 |
| LOCATION L0000775 | VOLUME | 467278.473 | 3730343.199 | 506.62 |
| LOCATION L0000776 | VOLUME | 467285.969 | 3730339.190 | 508.40 |
| LOCATION L0000777 | VOLUME | 467293.464 | 3730335.181 | 509.90 |
| LOCATION L0000778 | VOLUME | 467300.959 | 3730331.172 | 511.00 |
| LOCATION L0000779 | VOLUME | 467307.228 | 3730325.436 | 511.31 |
| LOCATION L0000780 | VOLUME | 467313.483 | 3730319.681 | 511.68 |
| LOCATION L0000781 | VOLUME | 467319.739 | 3730313.926 | 512.14 |
| LOCATION L0000782 | VOLUME | 467325.994 | 3730308.171 | 512.86 |
| LOCATION L0000783 | VOLUME | 467332.250 | 3730302.416 | 514.07 |
| LOCATION L0000784 | VOLUME | 467338.505 | 3730296.661 | 515.55 |
| LOCATION L0000785 | VOLUME | 467344.760 | 3730290.906 | 517.11 |
| LOCATION L0000786 | VOLUME | 467351.016 | 3730285.151 | 518.61 |
| LOCATION L0000787 | VOLUME | 467357.271 | 3730279.396 | 519.54 |
| LOCATION L0000788 | VOLUME | 467361.800 | 3730272.234 | 519.18 |
| LOCATION L0000789 | VOLUME | 467366.173 | 3730264.945 | 518.25 |
| LOCATION L0000790 | VOLUME | 467370.546 | 3730257.657 | 517.25 |
| LOCATION L0000791 | VOLUME | 467374.919 | 3730250.368 | 516.18 |
| LOCATION L0000792 | VOLUME | 467379.292 | 3730243.079 | 514.84 |
| LOCATION L0000793 | VOLUME | 467383.666 | 3730235.791 | 512.92 |
| LOCATION L0000794 | VOLUME | 467388.039 | 3730228.502 | 511.18 |
| LOCATION L0000795 | VOLUME | 467392.412 | 3730221.213 | 509.66 |
| LOCATION L0000796 | VOLUME | 467396.785 | 3730213.924 | 508.40 |
| LOCATION L0000797 | VOLUME | 467399.975 | 3730206.124 | 506.88 |
| LOCATION L0000798 | VOLUME | 467402.289 | 3730197.945 | 505.01 |
| LOCATION L0000799 | VOLUME | 467404.604 | 3730189.766 | 503.09 |
| LOCATION L0000800 | VOLUME | 467406.919 | 3730181.588 | 501.11 |
| LOCATION L0000801 | VOLUME | 467409.234 | 3730173.409 | 499.13 |
| LOCATION L0000802 | VOLUME | 467411.548 | 3730165.230 | 497.29 |
| LOCATION L0000803 | VOLUME | 467413.863 | 3730157.051 | 495.44 |
| LOCATION L0000804 | VOLUME | 467416.178 | 3730148.873 | 493.39 |
| LOCATION L0000805 | VOLUME | 467418.493 | 3730140.694 | 491.16 |
| LOCATION L0000806 | VOLUME | 467420.807 | 3730132.515 | 488.76 |
| LOCATION L0000807 | VOLUME | 467423.122 | 3730124.336 | 486.12 |

SchoolDPM

|          |          |        |            |             |        |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0000808 | VOLUME | 467425.437 | 3730116.158 | 483.16 |
| LOCATION | L0000809 | VOLUME | 467427.751 | 3730107.979 | 480.19 |
| LOCATION | L0000810 | VOLUME | 467430.066 | 3730099.800 | 477.23 |
| LOCATION | L0000811 | VOLUME | 467432.381 | 3730091.621 | 474.31 |
| LOCATION | L0000812 | VOLUME | 467434.588 | 3730083.413 | 471.49 |
| LOCATION | L0000813 | VOLUME | 467436.778 | 3730075.200 | 468.78 |
| LOCATION | L0000814 | VOLUME | 467438.968 | 3730066.987 | 466.20 |
| LOCATION | L0000815 | VOLUME | 467441.158 | 3730058.774 | 462.66 |
| LOCATION | L0000816 | VOLUME | 467443.348 | 3730050.561 | 458.86 |
| LOCATION | L0000817 | VOLUME | 467445.538 | 3730042.348 | 455.11 |
| LOCATION | L0000818 | VOLUME | 467447.729 | 3730034.135 | 451.34 |
| LOCATION | L0000819 | VOLUME | 467449.919 | 3730025.922 | 447.49 |
| LOCATION | L0000820 | VOLUME | 467452.109 | 3730017.709 | 443.71 |
| LOCATION | L0000821 | VOLUME | 467454.299 | 3730009.496 | 440.02 |
| LOCATION | L0000822 | VOLUME | 467458.310 | 3730002.294 | 437.04 |
| LOCATION | L0000823 | VOLUME | 467464.123 | 3729996.093 | 434.75 |
| LOCATION | L0000824 | VOLUME | 467469.937 | 3729989.892 | 432.61 |
| LOCATION | L0000825 | VOLUME | 467475.750 | 3729983.691 | 430.45 |
| LOCATION | L0000826 | VOLUME | 467481.564 | 3729977.490 | 428.45 |
| LOCATION | L0000827 | VOLUME | 467487.377 | 3729971.289 | 426.98 |
| LOCATION | L0000828 | VOLUME | 467494.198 | 3729966.360 | 426.36 |
| LOCATION | L0000829 | VOLUME | 467501.570 | 3729962.130 | 426.83 |
| LOCATION | L0000830 | VOLUME | 467508.943 | 3729957.900 | 428.74 |
| LOCATION | L0000831 | VOLUME | 467516.315 | 3729953.670 | 430.45 |
| LOCATION | L0000832 | VOLUME | 467523.688 | 3729949.440 | 431.94 |
| LOCATION | L0000833 | VOLUME | 467531.061 | 3729945.209 | 433.18 |
| LOCATION | L0000834 | VOLUME | 467538.433 | 3729940.979 | 433.98 |
| LOCATION | L0000835 | VOLUME | 467545.806 | 3729936.749 | 434.57 |
| LOCATION | L0000836 | VOLUME | 467553.179 | 3729932.519 | 434.95 |
| LOCATION | L0000837 | VOLUME | 467560.354 | 3729928.001 | 434.91 |
| LOCATION | L0000838 | VOLUME | 467566.953 | 3729922.644 | 433.86 |
| LOCATION | L0000839 | VOLUME | 467573.553 | 3729917.288 | 432.82 |
| LOCATION | L0000840 | VOLUME | 467580.153 | 3729911.931 | 431.78 |
| LOCATION | L0000841 | VOLUME | 467586.753 | 3729906.575 | 430.74 |
| LOCATION | L0000842 | VOLUME | 467593.353 | 3729901.218 | 429.82 |
| LOCATION | L0000843 | VOLUME | 467599.953 | 3729895.862 | 429.23 |
| LOCATION | L0000844 | VOLUME | 467606.553 | 3729890.506 | 428.96 |
| LOCATION | L0000845 | VOLUME | 467613.153 | 3729885.149 | 429.01 |
| LOCATION | L0000846 | VOLUME | 467619.753 | 3729879.793 | 429.16 |
| LOCATION | L0000847 | VOLUME | 467626.352 | 3729874.436 | 429.50 |
| LOCATION | L0000848 | VOLUME | 467632.952 | 3729869.080 | 429.60 |
| LOCATION | L0000849 | VOLUME | 467639.200 | 3729863.352 | 429.24 |
| LOCATION | L0000850 | VOLUME | 467644.897 | 3729857.044 | 428.28 |
| LOCATION | L0000851 | VOLUME | 467650.595 | 3729850.736 | 427.39 |
| LOCATION | L0000852 | VOLUME | 467656.292 | 3729844.428 | 426.24 |
| LOCATION | L0000853 | VOLUME | 467661.989 | 3729838.120 | 425.09 |
| LOCATION | L0000854 | VOLUME | 467667.687 | 3729831.812 | 423.94 |
| LOCATION | L0000855 | VOLUME | 467673.692 | 3729825.800 | 422.96 |

# SchoolDPM

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0000856 | VOLUME | 467679.768 | 3729819.856 | 422.78 |
| LOCATION L0000857 | VOLUME | 467685.844 | 3729813.912 | 422.40 |
| LOCATION L0000858 | VOLUME | 467691.920 | 3729807.968 | 422.03 |
| LOCATION L0000859 | VOLUME | 467697.997 | 3729802.024 | 421.65 |
| LOCATION L0000860 | VOLUME | 467704.073 | 3729796.080 | 421.27 |
| LOCATION L0000861 | VOLUME | 467710.149 | 3729790.136 | 420.87 |
| LOCATION L0000862 | VOLUME | 467716.225 | 3729784.192 | 420.12 |

\*\* End of LINE VOLUME Source ID = SLINE1

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE2

\*\* DESCRSRC On-Site Travel

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.00004566

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 11

\*\* 467252.240, 3730357.231, 502.79, 0.00, 3.95

\*\* 467301.041, 3730331.128, 509.58, 0.00, 3.95

\*\* 467357.787, 3730278.922, 517.06, 0.00, 3.95

\*\* 467398.643, 3730210.828, 508.31, 0.00, 3.95

\*\* 467432.691, 3730090.528, 475.46, 0.00, 3.95

\*\* 467455.389, 3730005.410, 436.97, 0.00, 3.95

\*\* 467489.436, 3729969.093, 426.89, 0.00, 3.95

\*\* 467558.665, 3729929.371, 429.01, 0.00, 3.95

\*\* 467636.974, 3729865.816, 424.62, 0.00, 3.95

\*\* 467668.751, 3729830.634, 421.78, 0.00, 3.95

\*\* 467720.957, 3729779.563, 415.97, 0.00, 3.95

\*\*

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0000863 | VOLUME | 467255.988 | 3730355.226 | 501.52 |
| LOCATION L0000864 | VOLUME | 467263.483 | 3730351.217 | 502.88 |
| LOCATION L0000865 | VOLUME | 467270.978 | 3730347.208 | 504.79 |
| LOCATION L0000866 | VOLUME | 467278.473 | 3730343.199 | 506.62 |
| LOCATION L0000867 | VOLUME | 467285.969 | 3730339.190 | 508.40 |
| LOCATION L0000868 | VOLUME | 467293.464 | 3730335.181 | 509.90 |
| LOCATION L0000869 | VOLUME | 467300.959 | 3730331.172 | 511.00 |
| LOCATION L0000870 | VOLUME | 467307.228 | 3730325.436 | 511.31 |
| LOCATION L0000871 | VOLUME | 467313.483 | 3730319.681 | 511.68 |
| LOCATION L0000872 | VOLUME | 467319.739 | 3730313.926 | 512.14 |
| LOCATION L0000873 | VOLUME | 467325.994 | 3730308.171 | 512.86 |
| LOCATION L0000874 | VOLUME | 467332.250 | 3730302.416 | 514.07 |
| LOCATION L0000875 | VOLUME | 467338.505 | 3730296.661 | 515.55 |
| LOCATION L0000876 | VOLUME | 467344.760 | 3730290.906 | 517.11 |
| LOCATION L0000877 | VOLUME | 467351.016 | 3730285.151 | 518.61 |
| LOCATION L0000878 | VOLUME | 467357.271 | 3730279.396 | 519.54 |
| LOCATION L0000879 | VOLUME | 467361.800 | 3730272.234 | 519.18 |

SchoolDPM

|          |          |        |            |             |        |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0000880 | VOLUME | 467366.173 | 3730264.945 | 518.25 |
| LOCATION | L0000881 | VOLUME | 467370.546 | 3730257.657 | 517.25 |
| LOCATION | L0000882 | VOLUME | 467374.919 | 3730250.368 | 516.18 |
| LOCATION | L0000883 | VOLUME | 467379.292 | 3730243.079 | 514.84 |
| LOCATION | L0000884 | VOLUME | 467383.666 | 3730235.791 | 512.92 |
| LOCATION | L0000885 | VOLUME | 467388.039 | 3730228.502 | 511.18 |
| LOCATION | L0000886 | VOLUME | 467392.412 | 3730221.213 | 509.66 |
| LOCATION | L0000887 | VOLUME | 467396.785 | 3730213.924 | 508.40 |
| LOCATION | L0000888 | VOLUME | 467399.975 | 3730206.124 | 506.88 |
| LOCATION | L0000889 | VOLUME | 467402.289 | 3730197.945 | 505.01 |
| LOCATION | L0000890 | VOLUME | 467404.604 | 3730189.766 | 503.09 |
| LOCATION | L0000891 | VOLUME | 467406.919 | 3730181.588 | 501.11 |
| LOCATION | L0000892 | VOLUME | 467409.234 | 3730173.409 | 499.13 |
| LOCATION | L0000893 | VOLUME | 467411.548 | 3730165.230 | 497.29 |
| LOCATION | L0000894 | VOLUME | 467413.863 | 3730157.051 | 495.44 |
| LOCATION | L0000895 | VOLUME | 467416.178 | 3730148.873 | 493.39 |
| LOCATION | L0000896 | VOLUME | 467418.493 | 3730140.694 | 491.16 |
| LOCATION | L0000897 | VOLUME | 467420.807 | 3730132.515 | 488.76 |
| LOCATION | L0000898 | VOLUME | 467423.122 | 3730124.336 | 486.12 |
| LOCATION | L0000899 | VOLUME | 467425.437 | 3730116.158 | 483.16 |
| LOCATION | L0000900 | VOLUME | 467427.751 | 3730107.979 | 480.19 |
| LOCATION | L0000901 | VOLUME | 467430.066 | 3730099.800 | 477.23 |
| LOCATION | L0000902 | VOLUME | 467432.381 | 3730091.621 | 474.31 |
| LOCATION | L0000903 | VOLUME | 467434.588 | 3730083.413 | 471.49 |
| LOCATION | L0000904 | VOLUME | 467436.778 | 3730075.200 | 468.78 |
| LOCATION | L0000905 | VOLUME | 467438.968 | 3730066.987 | 466.20 |
| LOCATION | L0000906 | VOLUME | 467441.158 | 3730058.774 | 462.66 |
| LOCATION | L0000907 | VOLUME | 467443.348 | 3730050.561 | 458.86 |
| LOCATION | L0000908 | VOLUME | 467445.538 | 3730042.348 | 455.11 |
| LOCATION | L0000909 | VOLUME | 467447.729 | 3730034.135 | 451.34 |
| LOCATION | L0000910 | VOLUME | 467449.919 | 3730025.922 | 447.49 |
| LOCATION | L0000911 | VOLUME | 467452.109 | 3730017.709 | 443.71 |
| LOCATION | L0000912 | VOLUME | 467454.299 | 3730009.496 | 440.02 |
| LOCATION | L0000913 | VOLUME | 467458.310 | 3730002.294 | 437.04 |
| LOCATION | L0000914 | VOLUME | 467464.123 | 3729996.093 | 434.75 |
| LOCATION | L0000915 | VOLUME | 467469.937 | 3729989.892 | 432.61 |
| LOCATION | L0000916 | VOLUME | 467475.750 | 3729983.691 | 430.45 |
| LOCATION | L0000917 | VOLUME | 467481.564 | 3729977.490 | 428.45 |
| LOCATION | L0000918 | VOLUME | 467487.377 | 3729971.289 | 426.98 |
| LOCATION | L0000919 | VOLUME | 467494.198 | 3729966.360 | 426.36 |
| LOCATION | L0000920 | VOLUME | 467501.570 | 3729962.130 | 426.83 |
| LOCATION | L0000921 | VOLUME | 467508.943 | 3729957.900 | 428.74 |
| LOCATION | L0000922 | VOLUME | 467516.315 | 3729953.670 | 430.45 |
| LOCATION | L0000923 | VOLUME | 467523.688 | 3729949.440 | 431.94 |
| LOCATION | L0000924 | VOLUME | 467531.061 | 3729945.209 | 433.18 |
| LOCATION | L0000925 | VOLUME | 467538.433 | 3729940.979 | 433.98 |
| LOCATION | L0000926 | VOLUME | 467545.806 | 3729936.749 | 434.57 |
| LOCATION | L0000927 | VOLUME | 467553.179 | 3729932.519 | 434.95 |

# SchoolDPM

|                   |        |            |             |        |
|-------------------|--------|------------|-------------|--------|
| LOCATION L0000928 | VOLUME | 467560.354 | 3729928.001 | 434.91 |
| LOCATION L0000929 | VOLUME | 467566.953 | 3729922.644 | 433.86 |
| LOCATION L0000930 | VOLUME | 467573.553 | 3729917.288 | 432.82 |
| LOCATION L0000931 | VOLUME | 467580.153 | 3729911.931 | 431.78 |
| LOCATION L0000932 | VOLUME | 467586.753 | 3729906.575 | 430.74 |
| LOCATION L0000933 | VOLUME | 467593.353 | 3729901.218 | 429.82 |
| LOCATION L0000934 | VOLUME | 467599.953 | 3729895.862 | 429.23 |
| LOCATION L0000935 | VOLUME | 467606.553 | 3729890.506 | 428.96 |
| LOCATION L0000936 | VOLUME | 467613.153 | 3729885.149 | 429.01 |
| LOCATION L0000937 | VOLUME | 467619.753 | 3729879.793 | 429.16 |
| LOCATION L0000938 | VOLUME | 467626.352 | 3729874.436 | 429.50 |
| LOCATION L0000939 | VOLUME | 467632.952 | 3729869.080 | 429.60 |
| LOCATION L0000940 | VOLUME | 467639.200 | 3729863.352 | 429.24 |
| LOCATION L0000941 | VOLUME | 467644.897 | 3729857.044 | 428.28 |
| LOCATION L0000942 | VOLUME | 467650.595 | 3729850.736 | 427.39 |
| LOCATION L0000943 | VOLUME | 467656.292 | 3729844.428 | 426.24 |
| LOCATION L0000944 | VOLUME | 467661.989 | 3729838.120 | 425.09 |
| LOCATION L0000945 | VOLUME | 467667.687 | 3729831.812 | 423.94 |
| LOCATION L0000946 | VOLUME | 467673.692 | 3729825.800 | 422.96 |
| LOCATION L0000947 | VOLUME | 467679.768 | 3729819.856 | 422.78 |
| LOCATION L0000948 | VOLUME | 467685.844 | 3729813.912 | 422.40 |
| LOCATION L0000949 | VOLUME | 467691.920 | 3729807.968 | 422.03 |
| LOCATION L0000950 | VOLUME | 467697.997 | 3729802.024 | 421.65 |
| LOCATION L0000951 | VOLUME | 467704.073 | 3729796.080 | 421.27 |
| LOCATION L0000952 | VOLUME | 467710.149 | 3729790.136 | 420.87 |
| LOCATION L0000953 | VOLUME | 467716.225 | 3729784.192 | 420.12 |

\*\* End of LINE VOLUME Source ID = SLINE2

\*\*

\*\* Line Source Represented by Adjacent Volume Sources

\*\* LINE VOLUME Source ID = SLINE3

\*\* DESCRSRC Off-Site Travel

\*\* PREFIX

\*\* Length of Side = 8.50

\*\* Configuration = Adjacent

\*\* Emission Rate = 0.0000302

\*\* Vertical Dimension = 4.00

\*\* SZINIT = 1.86

\*\* Nodes = 15

\*\* 467773.569, 3729732.155, 414.00, 0.00, 3.95

\*\* 467719.897, 3729744.702, 413.93, 0.00, 3.95

\*\* 467689.924, 3729762.128, 414.29, 0.00, 3.95

\*\* 467662.042, 3729777.463, 412.74, 0.00, 3.95

\*\* 467650.889, 3729785.131, 413.77, 0.00, 3.95

\*\* 467631.372, 3729789.313, 412.26, 0.00, 3.95

\*\* 467602.096, 3729802.557, 410.47, 0.00, 3.95

\*\* 467522.632, 3729804.648, 408.27, 0.00, 3.95

\*\* 467443.169, 3729807.437, 402.19, 0.00, 3.95

\*\* 467335.127, 3729833.924, 399.47, 0.00, 3.95

SchoolDPM

\*\* 467295.395, 3729839.501, 398.16, 0.00, 3.95  
 \*\* 467217.326, 3729834.621, 400.44, 0.00, 3.95  
 \*\* 467097.434, 3729803.254, 398.97, 0.00, 3.95  
 \*\* 466919.687, 3729764.220, 401.42, 0.00, 3.95  
 \*\* 466736.447, 3729716.966, 402.67, 0.00, 3.95

\*\* -----  
 LOCATION L0000954 VOLUME 467769.431 3729733.123 414.00  
 LOCATION L0000955 VOLUME 467761.154 3729735.058 413.99  
 LOCATION L0000956 VOLUME 467752.877 3729736.993 414.10  
 LOCATION L0000957 VOLUME 467744.600 3729738.927 414.29  
 LOCATION L0000958 VOLUME 467736.323 3729740.862 414.47  
 LOCATION L0000959 VOLUME 467728.047 3729742.797 414.59  
 LOCATION L0000960 VOLUME 467719.784 3729744.768 414.68  
 LOCATION L0000961 VOLUME 467712.436 3729749.040 414.91  
 LOCATION L0000962 VOLUME 467705.087 3729753.312 414.98  
 LOCATION L0000963 VOLUME 467697.739 3729757.585 414.87  
 LOCATION L0000964 VOLUME 467690.391 3729761.857 414.62  
 LOCATION L0000965 VOLUME 467682.949 3729765.964 414.22  
 LOCATION L0000966 VOLUME 467675.501 3729770.061 414.22  
 LOCATION L0000967 VOLUME 467668.053 3729774.157 414.10  
 LOCATION L0000968 VOLUME 467660.691 3729778.392 413.86  
 LOCATION L0000969 VOLUME 467653.687 3729783.208 413.57  
 LOCATION L0000970 VOLUME 467645.898 3729786.201 413.14  
 LOCATION L0000971 VOLUME 467637.586 3729787.982 412.77  
 LOCATION L0000972 VOLUME 467629.418 3729790.197 412.39  
 LOCATION L0000973 VOLUME 467621.673 3729793.701 412.05  
 LOCATION L0000974 VOLUME 467613.929 3729797.204 411.71  
 LOCATION L0000975 VOLUME 467606.185 3729800.707 411.48  
 LOCATION L0000976 VOLUME 467598.085 3729802.663 411.16  
 LOCATION L0000977 VOLUME 467589.588 3729802.886 410.69  
 LOCATION L0000978 VOLUME 467581.091 3729803.110 410.64  
 LOCATION L0000979 VOLUME 467572.594 3729803.334 410.59  
 LOCATION L0000980 VOLUME 467564.097 3729803.557 410.54  
 LOCATION L0000981 VOLUME 467555.600 3729803.781 410.35  
 LOCATION L0000982 VOLUME 467547.103 3729804.004 410.00  
 LOCATION L0000983 VOLUME 467538.606 3729804.228 409.65  
 LOCATION L0000984 VOLUME 467530.109 3729804.452 409.30  
 LOCATION L0000985 VOLUME 467521.612 3729804.684 408.14  
 LOCATION L0000986 VOLUME 467513.117 3729804.982 406.93  
 LOCATION L0000987 VOLUME 467504.622 3729805.280 405.72  
 LOCATION L0000988 VOLUME 467496.127 3729805.578 404.73  
 LOCATION L0000989 VOLUME 467487.633 3729805.876 404.07  
 LOCATION L0000990 VOLUME 467479.138 3729806.174 403.40  
 LOCATION L0000991 VOLUME 467470.643 3729806.473 402.73  
 LOCATION L0000992 VOLUME 467462.148 3729806.771 402.48  
 LOCATION L0000993 VOLUME 467453.654 3729807.069 402.30  
 LOCATION L0000994 VOLUME 467445.159 3729807.367 402.11  
 LOCATION L0000995 VOLUME 467436.847 3729808.986 401.96

SchoolDPM

|          |          |        |            |             |        |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0000996 | VOLUME | 467428.592 | 3729811.010 | 401.82 |
| LOCATION | L0000997 | VOLUME | 467420.336 | 3729813.034 | 401.64 |
| LOCATION | L0000998 | VOLUME | 467412.081 | 3729815.058 | 401.42 |
| LOCATION | L0000999 | VOLUME | 467403.825 | 3729817.082 | 401.10 |
| LOCATION | L0001000 | VOLUME | 467395.570 | 3729819.106 | 400.76 |
| LOCATION | L0001001 | VOLUME | 467387.314 | 3729821.130 | 400.42 |
| LOCATION | L0001002 | VOLUME | 467379.059 | 3729823.154 | 400.09 |
| LOCATION | L0001003 | VOLUME | 467370.803 | 3729825.178 | 400.02 |
| LOCATION | L0001004 | VOLUME | 467362.547 | 3729827.202 | 399.98 |
| LOCATION | L0001005 | VOLUME | 467354.292 | 3729829.226 | 399.91 |
| LOCATION | L0001006 | VOLUME | 467346.036 | 3729831.250 | 399.71 |
| LOCATION | L0001007 | VOLUME | 467337.781 | 3729833.274 | 399.36 |
| LOCATION | L0001008 | VOLUME | 467329.415 | 3729834.726 | 399.04 |
| LOCATION | L0001009 | VOLUME | 467320.998 | 3729835.907 | 398.72 |
| LOCATION | L0001010 | VOLUME | 467312.580 | 3729837.089 | 398.48 |
| LOCATION | L0001011 | VOLUME | 467304.163 | 3729838.270 | 398.29 |
| LOCATION | L0001012 | VOLUME | 467295.745 | 3729839.451 | 398.11 |
| LOCATION | L0001013 | VOLUME | 467287.265 | 3729838.993 | 397.96 |
| LOCATION | L0001014 | VOLUME | 467278.781 | 3729838.462 | 397.79 |
| LOCATION | L0001015 | VOLUME | 467270.298 | 3729837.932 | 397.61 |
| LOCATION | L0001016 | VOLUME | 467261.814 | 3729837.402 | 397.42 |
| LOCATION | L0001017 | VOLUME | 467253.331 | 3729836.872 | 397.55 |
| LOCATION | L0001018 | VOLUME | 467244.848 | 3729836.341 | 397.82 |
| LOCATION | L0001019 | VOLUME | 467236.364 | 3729835.811 | 398.12 |
| LOCATION | L0001020 | VOLUME | 467227.881 | 3729835.281 | 398.45 |
| LOCATION | L0001021 | VOLUME | 467219.397 | 3729834.751 | 398.80 |
| LOCATION | L0001022 | VOLUME | 467211.110 | 3729832.995 | 399.34 |
| LOCATION | L0001023 | VOLUME | 467202.887 | 3729830.844 | 400.03 |
| LOCATION | L0001024 | VOLUME | 467194.664 | 3729828.692 | 400.74 |
| LOCATION | L0001025 | VOLUME | 467186.441 | 3729826.541 | 401.36 |
| LOCATION | L0001026 | VOLUME | 467178.218 | 3729824.390 | 401.82 |
| LOCATION | L0001027 | VOLUME | 467169.994 | 3729822.238 | 402.00 |
| LOCATION | L0001028 | VOLUME | 467161.771 | 3729820.087 | 401.79 |
| LOCATION | L0001029 | VOLUME | 467153.548 | 3729817.935 | 401.61 |
| LOCATION | L0001030 | VOLUME | 467145.325 | 3729815.784 | 401.47 |
| LOCATION | L0001031 | VOLUME | 467137.101 | 3729813.632 | 401.28 |
| LOCATION | L0001032 | VOLUME | 467128.878 | 3729811.481 | 400.94 |
| LOCATION | L0001033 | VOLUME | 467120.655 | 3729809.330 | 400.64 |
| LOCATION | L0001034 | VOLUME | 467112.432 | 3729807.178 | 400.38 |
| LOCATION | L0001035 | VOLUME | 467104.209 | 3729805.027 | 399.77 |
| LOCATION | L0001036 | VOLUME | 467095.971 | 3729802.933 | 398.79 |
| LOCATION | L0001037 | VOLUME | 467087.669 | 3729801.110 | 397.62 |
| LOCATION | L0001038 | VOLUME | 467079.367 | 3729799.287 | 396.32 |
| LOCATION | L0001039 | VOLUME | 467071.065 | 3729797.463 | 396.10 |
| LOCATION | L0001040 | VOLUME | 467062.763 | 3729795.640 | 396.01 |
| LOCATION | L0001041 | VOLUME | 467054.461 | 3729793.817 | 396.02 |
| LOCATION | L0001042 | VOLUME | 467046.158 | 3729791.994 | 396.00 |
| LOCATION | L0001043 | VOLUME | 467037.856 | 3729790.171 | 396.00 |

SchoolDPM

|          |          |        |            |             |        |
|----------|----------|--------|------------|-------------|--------|
| LOCATION | L0001044 | VOLUME | 467029.554 | 3729788.347 | 396.00 |
| LOCATION | L0001045 | VOLUME | 467021.252 | 3729786.524 | 396.00 |
| LOCATION | L0001046 | VOLUME | 467012.950 | 3729784.701 | 397.06 |
| LOCATION | L0001047 | VOLUME | 467004.648 | 3729782.878 | 398.43 |
| LOCATION | L0001048 | VOLUME | 466996.346 | 3729781.054 | 399.88 |
| LOCATION | L0001049 | VOLUME | 466988.043 | 3729779.231 | 401.24 |
| LOCATION | L0001050 | VOLUME | 466979.741 | 3729777.408 | 401.95 |
| LOCATION | L0001051 | VOLUME | 466971.439 | 3729775.585 | 402.55 |
| LOCATION | L0001052 | VOLUME | 466963.137 | 3729773.762 | 403.05 |
| LOCATION | L0001053 | VOLUME | 466954.835 | 3729771.938 | 403.01 |
| LOCATION | L0001054 | VOLUME | 466946.533 | 3729770.115 | 402.64 |
| LOCATION | L0001055 | VOLUME | 466938.230 | 3729768.292 | 402.31 |
| LOCATION | L0001056 | VOLUME | 466929.928 | 3729766.469 | 402.01 |
| LOCATION | L0001057 | VOLUME | 466921.626 | 3729764.646 | 401.60 |
| LOCATION | L0001058 | VOLUME | 466913.379 | 3729762.593 | 401.11 |
| LOCATION | L0001059 | VOLUME | 466905.148 | 3729760.470 | 400.63 |
| LOCATION | L0001060 | VOLUME | 466896.917 | 3729758.348 | 399.92 |
| LOCATION | L0001061 | VOLUME | 466888.686 | 3729756.225 | 398.80 |
| LOCATION | L0001062 | VOLUME | 466880.456 | 3729754.103 | 397.76 |
| LOCATION | L0001063 | VOLUME | 466872.225 | 3729751.980 | 396.80 |
| LOCATION | L0001064 | VOLUME | 466863.994 | 3729749.858 | 396.46 |
| LOCATION | L0001065 | VOLUME | 466855.764 | 3729747.735 | 396.39 |
| LOCATION | L0001066 | VOLUME | 466847.533 | 3729745.613 | 396.32 |
| LOCATION | L0001067 | VOLUME | 466839.302 | 3729743.490 | 396.29 |
| LOCATION | L0001068 | VOLUME | 466831.071 | 3729741.367 | 397.22 |
| LOCATION | L0001069 | VOLUME | 466822.841 | 3729739.245 | 398.22 |
| LOCATION | L0001070 | VOLUME | 466814.610 | 3729737.122 | 399.31 |
| LOCATION | L0001071 | VOLUME | 466806.379 | 3729735.000 | 400.08 |
| LOCATION | L0001072 | VOLUME | 466798.149 | 3729732.877 | 400.32 |
| LOCATION | L0001073 | VOLUME | 466789.918 | 3729730.755 | 400.60 |
| LOCATION | L0001074 | VOLUME | 466781.687 | 3729728.632 | 400.91 |
| LOCATION | L0001075 | VOLUME | 466773.456 | 3729726.510 | 401.41 |
| LOCATION | L0001076 | VOLUME | 466765.226 | 3729724.387 | 401.96 |
| LOCATION | L0001077 | VOLUME | 466756.995 | 3729722.265 | 402.51 |
| LOCATION | L0001078 | VOLUME | 466748.764 | 3729720.142 | 403.01 |
| LOCATION | L0001079 | VOLUME | 466740.533 | 3729718.019 | 403.12 |

\*\* End of LINE VOLUME Source ID = SLINE3

\*\* Source Parameters \*\*

|          |        |            |             |            |             |
|----------|--------|------------|-------------|------------|-------------|
| SRCPARAM | PAREA1 | 2.3635E-09 | 5.000       | 72         | 1.000       |
| AREAVERT | PAREA1 | 467190.199 | 3730371.004 | 467293.010 | 3730368.225 |
| AREAVERT | PAREA1 | 467329.133 | 3730364.057 | 467377.760 | 3730359.889 |
| AREAVERT | PAREA1 | 467419.440 | 3730339.049 | 467462.509 | 3730302.926 |
| AREAVERT | PAREA1 | 467484.739 | 3730276.529 | 467494.464 | 3730261.246 |
| AREAVERT | PAREA1 | 467506.968 | 3730237.628 | 467518.083 | 3730209.841 |
| AREAVERT | PAREA1 | 467519.472 | 3730180.665 | 467519.472 | 3730137.595 |
| AREAVERT | PAREA1 | 467515.304 | 3730109.808 | 467513.915 | 3730094.526 |
| AREAVERT | PAREA1 | 467515.304 | 3730073.686 | 467520.862 | 3730059.792 |
| AREAVERT | PAREA1 | 467529.198 | 3730036.173 | 467531.976 | 3730029.227 |

SchoolDPM

|          |        |            |             |            |             |
|----------|--------|------------|-------------|------------|-------------|
| AREAVERT | PAREA1 | 467533.366 | 3730026.448 | 467543.091 | 3730013.944 |
| AREAVERT | PAREA1 | 467548.648 | 3730006.997 | 467562.542 | 3729990.325 |
| AREAVERT | PAREA1 | 467570.878 | 3729981.989 | 467579.214 | 3729970.874 |
| AREAVERT | PAREA1 | 467615.337 | 3729945.866 | 467625.062 | 3729934.752 |
| AREAVERT | PAREA1 | 467634.787 | 3729930.584 | 467651.460 | 3729925.026 |
| AREAVERT | PAREA1 | 467666.742 | 3729918.080 | 467693.140 | 3729909.743 |
| AREAVERT | PAREA1 | 467711.201 | 3729902.797 | 467745.935 | 3729895.850 |
| AREAVERT | PAREA1 | 467770.943 | 3729886.125 | 467787.615 | 3729876.399 |
| AREAVERT | PAREA1 | 467807.066 | 3729862.506 | 467816.791 | 3729848.613 |
| AREAVERT | PAREA1 | 467822.348 | 3729827.772 | 467826.516 | 3729816.658 |
| AREAVERT | PAREA1 | 467823.738 | 3729788.871 | 467823.738 | 3729777.756 |
| AREAVERT | PAREA1 | 467801.508 | 3729776.367 | 467773.721 | 3729776.367 |
| AREAVERT | PAREA1 | 467733.431 | 3729779.146 | 467676.468 | 3729780.535 |
| AREAVERT | PAREA1 | 467615.337 | 3729793.039 | 467579.214 | 3729802.764 |
| AREAVERT | PAREA1 | 467529.198 | 3729816.658 | 467509.747 | 3729834.719 |
| AREAVERT | PAREA1 | 467456.952 | 3729919.469 | 467347.194 | 3730005.608 |
| AREAVERT | PAREA1 | 467372.202 | 3730107.030 | 467373.592 | 3730132.038 |
| AREAVERT | PAREA1 | 467363.866 | 3730143.152 | 467349.973 | 3730159.825 |
| AREAVERT | PAREA1 | 467343.026 | 3730173.718 | 467334.690 | 3730190.390 |
| AREAVERT | PAREA1 | 467326.354 | 3730205.673 | 467313.850 | 3730225.123 |
| AREAVERT | PAREA1 | 467299.957 | 3730247.353 | 467295.789 | 3730269.582 |
| AREAVERT | PAREA1 | 467284.674 | 3730280.697 | 467281.895 | 3730295.980 |
| AREAVERT | PAREA1 | 467280.506 | 3730304.316 | 467276.338 | 3730315.431 |
| AREAVERT | PAREA1 | 467270.781 | 3730319.599 | 467265.223 | 3730326.545 |
| AREAVERT | PAREA1 | 467262.445 | 3730336.271 | 467256.887 | 3730340.439 |
| AREAVERT | PAREA1 | 467252.719 | 3730344.607 | 467245.772 | 3730348.775 |
| AREAVERT | PAREA1 | 467234.658 | 3730355.721 | 467213.818 | 3730361.279 |

\*\* LINE VOLUME Source ID = SLINE1

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0000772 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000773 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000774 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000775 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000776 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000777 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000778 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000779 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000780 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000781 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000782 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000783 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000784 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000785 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000786 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000787 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000788 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000789 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000790 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000791 | 0.00000008188 | 0.00 | 3.95 | 1.86 |

[illegible]

SchoolDPM

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0000840 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000841 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000842 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000843 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000844 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000845 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000846 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000847 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000848 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000849 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000850 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000851 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000852 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000853 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000854 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000855 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000856 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000857 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000858 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000859 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000860 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000861 | 0.00000008188 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000862 | 0.00000008188 | 0.00 | 3.95 | 1.86 |

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\*\* LINE VOLUME Source ID = SLINE2

|          |          |               |      |      |      |
|----------|----------|---------------|------|------|------|
| SRCPARAM | L0000863 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000864 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000865 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000866 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000867 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000868 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000869 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000870 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000871 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000872 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000873 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000874 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000875 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000876 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000877 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000878 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000879 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000880 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000881 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000882 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000883 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000884 | 0.00000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000885 | 0.00000005018 | 0.00 | 3.95 | 1.86 |

# SchoolDPM

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SchoolDPM

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000934 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000935 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000936 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000937 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000938 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000939 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000940 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000941 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000942 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000943 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000944 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000945 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000946 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000947 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000948 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000949 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000950 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000951 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000952 | 0.0000005018 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000953 | 0.0000005018 | 0.00 | 3.95 | 1.86 |

\*\*

\*\* LINE VOLUME Source ID = SLINE3

|          |          |              |      |      |      |
|----------|----------|--------------|------|------|------|
| SRCPARAM | L0000954 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000955 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000956 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000957 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000958 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000959 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000960 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000961 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000962 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000963 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000964 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000965 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000966 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000967 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000968 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000969 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000970 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000971 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000972 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000973 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000974 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000975 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000976 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000977 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000978 | 0.0000002397 | 0.00 | 3.95 | 1.86 |
| SRCPARAM | L0000979 | 0.0000002397 | 0.00 | 3.95 | 1.86 |

## SchoolDPM

[illegible]

# SchoolDPM

[illegible]

|                   |              | SchoolDPM |      |      |
|-------------------|--------------|-----------|------|------|
| SRCPARAM L0001076 | 0.0000002397 | 0.00      | 3.95 | 1.86 |
| SRCPARAM L0001077 | 0.0000002397 | 0.00      | 3.95 | 1.86 |
| SRCPARAM L0001078 | 0.0000002397 | 0.00      | 3.95 | 1.86 |
| SRCPARAM L0001079 | 0.0000002397 | 0.00      | 3.95 | 1.86 |

\*\* -----  
 URBANSRC ALL  
 SRCGROUP ALL  
 SO FINISHED  
 \*\*  
 \*\*\*\*\*  
 \*\* AERMOD Receptor Pathway  
 \*\*\*\*\*  
 \*\*  
 \*\*  
 RE STARTING  
 INCLUDED SchoolDPM.rou  
 RE FINISHED  
 \*\*  
 \*\*\*\*\*  
 \*\* AERMOD Meteorology Pathway  
 \*\*\*\*\*  
 \*\*  
 \*\*  
 ME STARTING  
 SURFFILE ..\elsi8.sfc  
 PROFFILE ..\elsi8.PFL  
 SURFDATA 3190 2008  
 UAIRDATA 3190 2008  
 SITEDATA 99999 2008  
 PROFBASE 406.0 METERS  
 ME FINISHED  
 \*\*  
 \*\*\*\*\*  
 \*\* AERMOD Output Pathway  
 \*\*\*\*\*  
 \*\*  
 \*\*  
 OU STARTING  
 \*\* Auto-Generated Plotfiles  
 PLOTFILE ANNUAL ALL SCHOOLDPM.AD\AN00GALL.PLT 31  
 SUMMFILE SchoolDPM.sum  
 OU FINISHED

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

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

SchoolDPM  
A Total of 0 Fatal Error Message(s)  
A Total of 1 Warning Message(s)  
A Total of 0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W531 799 MEOPEN: CAUTION! Met Station ID Missing from SURFFILE for  
SURFDATA

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

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\NicholsMine\SchoolDPM\SchoolDPM.isc \*\*\* 09/11/15  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 14:35:50

PAGE 1  
\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

\*\*\* 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 309 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2100516.0 ; 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.

SchoolDPM

6. Urban Roughness Length of 1.0 Meter Assumed.

\*\*Other Options Specified:

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: 309 Source(s); 1 Source Group(s); and 7  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 308 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 OPENPIT source(s)

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

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*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) = 406.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0

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

\*\*Approximate Storage Requirements of Model = 4.0 MB of RAM.

\*\*Detailed Error/Message File: SchoolDPM.err

# SchoolDPM

\*\*File for Summary of Results: SchoolDPM.sum

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\NicholsMine\SchoolDPM\SchoolDPM.isc \*\*\* 09/11/15  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 2  
ELEV URBAN

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

| INIT.    | URBAN  | NUMBER   | EMISSION    | RATE     |           | BASE     | RELEASE  | INIT.    |
|----------|--------|----------|-------------|----------|-----------|----------|----------|----------|
| INIT.    | URBAN  | EMISSION | RATE        |          |           | ELEV.    | HEIGHT   | SY       |
| SZ       | SOURCE | SCALAR   | VARY        | X        | Y         | ELEV.    | HEIGHT   | SY       |
| ID       |        | CATS.    |             | (METERS) | (METERS)  | (METERS) | (METERS) | (METERS) |
| (METERS) |        | BY       |             |          |           |          |          |          |
| L0000772 |        | 0        | 0.81880E-07 | 467256.0 | 3730355.2 | 501.5    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000773 |        | 0        | 0.81880E-07 | 467263.5 | 3730351.2 | 502.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000774 |        | 0        | 0.81880E-07 | 467271.0 | 3730347.2 | 504.8    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000775 |        | 0        | 0.81880E-07 | 467278.5 | 3730343.2 | 506.6    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000776 |        | 0        | 0.81880E-07 | 467286.0 | 3730339.2 | 508.4    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000777 |        | 0        | 0.81880E-07 | 467293.5 | 3730335.2 | 509.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000778 |        | 0        | 0.81880E-07 | 467301.0 | 3730331.2 | 511.0    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000779 |        | 0        | 0.81880E-07 | 467307.2 | 3730325.4 | 511.3    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000780 |        | 0        | 0.81880E-07 | 467313.5 | 3730319.7 | 511.7    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000781 |        | 0        | 0.81880E-07 | 467319.7 | 3730313.9 | 512.1    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000782 |        | 0        | 0.81880E-07 | 467326.0 | 3730308.2 | 512.9    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000783 |        | 0        | 0.81880E-07 | 467332.2 | 3730302.4 | 514.1    | 0.00     | 3.95     |
| 1.86     | YES    |          |             |          |           |          |          |          |
| L0000784 |        | 0        | 0.81880E-07 | 467338.5 | 3730296.7 | 515.5    | 0.00     | 3.95     |

SchoolDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0000785 |     | 0 | 0.81880E-07 | 467344.8 | 3730290.9 | 517.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000786 |     | 0 | 0.81880E-07 | 467351.0 | 3730285.2 | 518.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000787 |     | 0 | 0.81880E-07 | 467357.3 | 3730279.4 | 519.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000788 |     | 0 | 0.81880E-07 | 467361.8 | 3730272.2 | 519.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000789 |     | 0 | 0.81880E-07 | 467366.2 | 3730264.9 | 518.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000790 |     | 0 | 0.81880E-07 | 467370.5 | 3730257.7 | 517.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000791 |     | 0 | 0.81880E-07 | 467374.9 | 3730250.4 | 516.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000792 |     | 0 | 0.81880E-07 | 467379.3 | 3730243.1 | 514.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000793 |     | 0 | 0.81880E-07 | 467383.7 | 3730235.8 | 512.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000794 |     | 0 | 0.81880E-07 | 467388.0 | 3730228.5 | 511.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000795 |     | 0 | 0.81880E-07 | 467392.4 | 3730221.2 | 509.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000796 |     | 0 | 0.81880E-07 | 467396.8 | 3730213.9 | 508.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000797 |     | 0 | 0.81880E-07 | 467400.0 | 3730206.1 | 506.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000798 |     | 0 | 0.81880E-07 | 467402.3 | 3730197.9 | 505.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000799 |     | 0 | 0.81880E-07 | 467404.6 | 3730189.8 | 503.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000800 |     | 0 | 0.81880E-07 | 467406.9 | 3730181.6 | 501.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000801 |     | 0 | 0.81880E-07 | 467409.2 | 3730173.4 | 499.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000802 |     | 0 | 0.81880E-07 | 467411.5 | 3730165.2 | 497.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000803 |     | 0 | 0.81880E-07 | 467413.9 | 3730157.1 | 495.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000804 |     | 0 | 0.81880E-07 | 467416.2 | 3730148.9 | 493.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000805 |     | 0 | 0.81880E-07 | 467418.5 | 3730140.7 | 491.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000806 |     | 0 | 0.81880E-07 | 467420.8 | 3730132.5 | 488.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000807 |     | 0 | 0.81880E-07 | 467423.1 | 3730124.3 | 486.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000808 |     | 0 | 0.81880E-07 | 467425.4 | 3730116.2 | 483.2 | 0.00 3.95 |

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|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000809 |     | 0 | 0.81880E-07 | 467427.8 | 3730108.0 | 480.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000810 |     | 0 | 0.81880E-07 | 467430.1 | 3730099.8 | 477.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000811 |     | 0 | 0.81880E-07 | 467432.4 | 3730091.6 | 474.3 | 0.00 | 3.95 |

1.86 YES  
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 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 3  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000812 |     | 0 | 0.81880E-07 | 467434.6 | 3730083.4 | 471.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000813 |     | 0 | 0.81880E-07 | 467436.8 | 3730075.2 | 468.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000814 |     | 0 | 0.81880E-07 | 467439.0 | 3730067.0 | 466.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000815 |     | 0 | 0.81880E-07 | 467441.2 | 3730058.8 | 462.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000816 |     | 0 | 0.81880E-07 | 467443.3 | 3730050.6 | 458.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000817 |     | 0 | 0.81880E-07 | 467445.5 | 3730042.3 | 455.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000818 |     | 0 | 0.81880E-07 | 467447.7 | 3730034.1 | 451.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000819 |     | 0 | 0.81880E-07 | 467449.9 | 3730025.9 | 447.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000820 |     | 0 | 0.81880E-07 | 467452.1 | 3730017.7 | 443.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000821 |     | 0 | 0.81880E-07 | 467454.3 | 3730009.5 | 440.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000822 |     | 0 | 0.81880E-07 | 467458.3 | 3730002.3 | 437.0 | 0.00 | 3.95 |

SchoolDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0000823 |     | 0 | 0.81880E-07 | 467464.1 | 3729996.1 | 434.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000824 |     | 0 | 0.81880E-07 | 467469.9 | 3729989.9 | 432.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000825 |     | 0 | 0.81880E-07 | 467475.8 | 3729983.7 | 430.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000826 |     | 0 | 0.81880E-07 | 467481.6 | 3729977.5 | 428.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000827 |     | 0 | 0.81880E-07 | 467487.4 | 3729971.3 | 427.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000828 |     | 0 | 0.81880E-07 | 467494.2 | 3729966.4 | 426.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000829 |     | 0 | 0.81880E-07 | 467501.6 | 3729962.1 | 426.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000830 |     | 0 | 0.81880E-07 | 467508.9 | 3729957.9 | 428.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000831 |     | 0 | 0.81880E-07 | 467516.3 | 3729953.7 | 430.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000832 |     | 0 | 0.81880E-07 | 467523.7 | 3729949.4 | 431.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000833 |     | 0 | 0.81880E-07 | 467531.1 | 3729945.2 | 433.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000834 |     | 0 | 0.81880E-07 | 467538.4 | 3729941.0 | 434.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000835 |     | 0 | 0.81880E-07 | 467545.8 | 3729936.7 | 434.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000836 |     | 0 | 0.81880E-07 | 467553.2 | 3729932.5 | 434.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000837 |     | 0 | 0.81880E-07 | 467560.4 | 3729928.0 | 434.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000838 |     | 0 | 0.81880E-07 | 467567.0 | 3729922.6 | 433.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000839 |     | 0 | 0.81880E-07 | 467573.6 | 3729917.3 | 432.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000840 |     | 0 | 0.81880E-07 | 467580.2 | 3729911.9 | 431.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000841 |     | 0 | 0.81880E-07 | 467586.8 | 3729906.6 | 430.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000842 |     | 0 | 0.81880E-07 | 467593.4 | 3729901.2 | 429.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000843 |     | 0 | 0.81880E-07 | 467600.0 | 3729895.9 | 429.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000844 |     | 0 | 0.81880E-07 | 467606.6 | 3729890.5 | 429.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000845 |     | 0 | 0.81880E-07 | 467613.2 | 3729885.1 | 429.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000846 |     | 0 | 0.81880E-07 | 467619.8 | 3729879.8 | 429.2 | 0.00 3.95 |

# SchoolDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000847 |     | 0 | 0.81880E-07 | 467626.4 | 3729874.4 | 429.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000848 |     | 0 | 0.81880E-07 | 467633.0 | 3729869.1 | 429.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000849 |     | 0 | 0.81880E-07 | 467639.2 | 3729863.4 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000850 |     | 0 | 0.81880E-07 | 467644.9 | 3729857.0 | 428.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000851 |     | 0 | 0.81880E-07 | 467650.6 | 3729850.7 | 427.4 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\SchoolDPM\SchoolDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 4  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000852 |     | 0 | 0.81880E-07 | 467656.3 | 3729844.4 | 426.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000853 |     | 0 | 0.81880E-07 | 467662.0 | 3729838.1 | 425.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000854 |     | 0 | 0.81880E-07 | 467667.7 | 3729831.8 | 423.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000855 |     | 0 | 0.81880E-07 | 467673.7 | 3729825.8 | 423.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000856 |     | 0 | 0.81880E-07 | 467679.8 | 3729819.9 | 422.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000857 |     | 0 | 0.81880E-07 | 467685.8 | 3729813.9 | 422.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000858 |     | 0 | 0.81880E-07 | 467691.9 | 3729808.0 | 422.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000859 |     | 0 | 0.81880E-07 | 467698.0 | 3729802.0 | 421.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000860 |     | 0 | 0.81880E-07 | 467704.1 | 3729796.1 | 421.3 | 0.00 | 3.95 |

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|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0000861 |     | 0 | 0.81880E-07 | 467710.1 | 3729790.1 | 420.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000862 |     | 0 | 0.81880E-07 | 467716.2 | 3729784.2 | 420.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000863 |     | 0 | 0.50180E-06 | 467256.0 | 3730355.2 | 501.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000864 |     | 0 | 0.50180E-06 | 467263.5 | 3730351.2 | 502.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000865 |     | 0 | 0.50180E-06 | 467271.0 | 3730347.2 | 504.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000866 |     | 0 | 0.50180E-06 | 467278.5 | 3730343.2 | 506.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000867 |     | 0 | 0.50180E-06 | 467286.0 | 3730339.2 | 508.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000868 |     | 0 | 0.50180E-06 | 467293.5 | 3730335.2 | 509.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000869 |     | 0 | 0.50180E-06 | 467301.0 | 3730331.2 | 511.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000870 |     | 0 | 0.50180E-06 | 467307.2 | 3730325.4 | 511.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000871 |     | 0 | 0.50180E-06 | 467313.5 | 3730319.7 | 511.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000872 |     | 0 | 0.50180E-06 | 467319.7 | 3730313.9 | 512.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000873 |     | 0 | 0.50180E-06 | 467326.0 | 3730308.2 | 512.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000874 |     | 0 | 0.50180E-06 | 467332.2 | 3730302.4 | 514.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000875 |     | 0 | 0.50180E-06 | 467338.5 | 3730296.7 | 515.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000876 |     | 0 | 0.50180E-06 | 467344.8 | 3730290.9 | 517.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000877 |     | 0 | 0.50180E-06 | 467351.0 | 3730285.2 | 518.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000878 |     | 0 | 0.50180E-06 | 467357.3 | 3730279.4 | 519.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000879 |     | 0 | 0.50180E-06 | 467361.8 | 3730272.2 | 519.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000880 |     | 0 | 0.50180E-06 | 467366.2 | 3730264.9 | 518.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000881 |     | 0 | 0.50180E-06 | 467370.5 | 3730257.7 | 517.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000882 |     | 0 | 0.50180E-06 | 467374.9 | 3730250.4 | 516.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000883 |     | 0 | 0.50180E-06 | 467379.3 | 3730243.1 | 514.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000884 |     | 0 | 0.50180E-06 | 467383.7 | 3730235.8 | 512.9 | 0.00 3.95 |

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|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000885 |     | 0 | 0.50180E-06 | 467388.0 | 3730228.5 | 511.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000886 |     | 0 | 0.50180E-06 | 467392.4 | 3730221.2 | 509.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000887 |     | 0 | 0.50180E-06 | 467396.8 | 3730213.9 | 508.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000888 |     | 0 | 0.50180E-06 | 467400.0 | 3730206.1 | 506.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000889 |     | 0 | 0.50180E-06 | 467402.3 | 3730197.9 | 505.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000890 |     | 0 | 0.50180E-06 | 467404.6 | 3730189.8 | 503.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000891 |     | 0 | 0.50180E-06 | 467406.9 | 3730181.6 | 501.1 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 5  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000892 |     | 0 | 0.50180E-06 | 467409.2 | 3730173.4 | 499.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000893 |     | 0 | 0.50180E-06 | 467411.5 | 3730165.2 | 497.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000894 |     | 0 | 0.50180E-06 | 467413.9 | 3730157.1 | 495.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000895 |     | 0 | 0.50180E-06 | 467416.2 | 3730148.9 | 493.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000896 |     | 0 | 0.50180E-06 | 467418.5 | 3730140.7 | 491.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000897 |     | 0 | 0.50180E-06 | 467420.8 | 3730132.5 | 488.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000898 |     | 0 | 0.50180E-06 | 467423.1 | 3730124.3 | 486.1 | 0.00 | 3.95 |

SchoolDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0000899 |     | 0 | 0.50180E-06 | 467425.4 | 3730116.2 | 483.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000900 |     | 0 | 0.50180E-06 | 467427.8 | 3730108.0 | 480.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000901 |     | 0 | 0.50180E-06 | 467430.1 | 3730099.8 | 477.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000902 |     | 0 | 0.50180E-06 | 467432.4 | 3730091.6 | 474.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000903 |     | 0 | 0.50180E-06 | 467434.6 | 3730083.4 | 471.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000904 |     | 0 | 0.50180E-06 | 467436.8 | 3730075.2 | 468.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000905 |     | 0 | 0.50180E-06 | 467439.0 | 3730067.0 | 466.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000906 |     | 0 | 0.50180E-06 | 467441.2 | 3730058.8 | 462.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000907 |     | 0 | 0.50180E-06 | 467443.3 | 3730050.6 | 458.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000908 |     | 0 | 0.50180E-06 | 467445.5 | 3730042.3 | 455.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000909 |     | 0 | 0.50180E-06 | 467447.7 | 3730034.1 | 451.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000910 |     | 0 | 0.50180E-06 | 467449.9 | 3730025.9 | 447.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000911 |     | 0 | 0.50180E-06 | 467452.1 | 3730017.7 | 443.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000912 |     | 0 | 0.50180E-06 | 467454.3 | 3730009.5 | 440.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000913 |     | 0 | 0.50180E-06 | 467458.3 | 3730002.3 | 437.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000914 |     | 0 | 0.50180E-06 | 467464.1 | 3729996.1 | 434.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000915 |     | 0 | 0.50180E-06 | 467469.9 | 3729989.9 | 432.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000916 |     | 0 | 0.50180E-06 | 467475.8 | 3729983.7 | 430.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000917 |     | 0 | 0.50180E-06 | 467481.6 | 3729977.5 | 428.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000918 |     | 0 | 0.50180E-06 | 467487.4 | 3729971.3 | 427.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000919 |     | 0 | 0.50180E-06 | 467494.2 | 3729966.4 | 426.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000920 |     | 0 | 0.50180E-06 | 467501.6 | 3729962.1 | 426.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000921 |     | 0 | 0.50180E-06 | 467508.9 | 3729957.9 | 428.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000922 |     | 0 | 0.50180E-06 | 467516.3 | 3729953.7 | 430.4 | 0.00 3.95 |

SchoolDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000923 |     | 0 | 0.50180E-06 | 467523.7 | 3729949.4 | 431.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000924 |     | 0 | 0.50180E-06 | 467531.1 | 3729945.2 | 433.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000925 |     | 0 | 0.50180E-06 | 467538.4 | 3729941.0 | 434.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000926 |     | 0 | 0.50180E-06 | 467545.8 | 3729936.7 | 434.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000927 |     | 0 | 0.50180E-06 | 467553.2 | 3729932.5 | 434.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000928 |     | 0 | 0.50180E-06 | 467560.4 | 3729928.0 | 434.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000929 |     | 0 | 0.50180E-06 | 467567.0 | 3729922.6 | 433.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000930 |     | 0 | 0.50180E-06 | 467573.6 | 3729917.3 | 432.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000931 |     | 0 | 0.50180E-06 | 467580.2 | 3729911.9 | 431.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 6  
 ELEV URBAN

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

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

|          |     |             |          |           |       |      |      |
|----------|-----|-------------|----------|-----------|-------|------|------|
| L0000932 | 0   | 0.50180E-06 | 467586.8 | 3729906.6 | 430.7 | 0.00 | 3.95 |
| 1.86     | YES |             |          |           |       |      |      |
| L0000933 | 0   | 0.50180E-06 | 467593.4 | 3729901.2 | 429.8 | 0.00 | 3.95 |
| 1.86     | YES |             |          |           |       |      |      |
| L0000934 | 0   | 0.50180E-06 | 467600.0 | 3729895.9 | 429.2 | 0.00 | 3.95 |
| 1.86     | YES |             |          |           |       |      |      |
| L0000935 | 0   | 0.50180E-06 | 467606.6 | 3729890.5 | 429.0 | 0.00 | 3.95 |
| 1.86     | YES |             |          |           |       |      |      |
| L0000936 | 0   | 0.50180E-06 | 467613.2 | 3729885.1 | 429.0 | 0.00 | 3.95 |

SchoolDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0000937 |     | 0 | 0.50180E-06 | 467619.8 | 3729879.8 | 429.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000938 |     | 0 | 0.50180E-06 | 467626.4 | 3729874.4 | 429.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000939 |     | 0 | 0.50180E-06 | 467633.0 | 3729869.1 | 429.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000940 |     | 0 | 0.50180E-06 | 467639.2 | 3729863.4 | 429.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000941 |     | 0 | 0.50180E-06 | 467644.9 | 3729857.0 | 428.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000942 |     | 0 | 0.50180E-06 | 467650.6 | 3729850.7 | 427.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000943 |     | 0 | 0.50180E-06 | 467656.3 | 3729844.4 | 426.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000944 |     | 0 | 0.50180E-06 | 467662.0 | 3729838.1 | 425.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000945 |     | 0 | 0.50180E-06 | 467667.7 | 3729831.8 | 423.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000946 |     | 0 | 0.50180E-06 | 467673.7 | 3729825.8 | 423.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000947 |     | 0 | 0.50180E-06 | 467679.8 | 3729819.9 | 422.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000948 |     | 0 | 0.50180E-06 | 467685.8 | 3729813.9 | 422.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000949 |     | 0 | 0.50180E-06 | 467691.9 | 3729808.0 | 422.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000950 |     | 0 | 0.50180E-06 | 467698.0 | 3729802.0 | 421.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000951 |     | 0 | 0.50180E-06 | 467704.1 | 3729796.1 | 421.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000952 |     | 0 | 0.50180E-06 | 467710.1 | 3729790.1 | 420.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000953 |     | 0 | 0.50180E-06 | 467716.2 | 3729784.2 | 420.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000954 |     | 0 | 0.23970E-06 | 467769.4 | 3729733.1 | 414.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000955 |     | 0 | 0.23970E-06 | 467761.2 | 3729735.1 | 414.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000956 |     | 0 | 0.23970E-06 | 467752.9 | 3729737.0 | 414.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000957 |     | 0 | 0.23970E-06 | 467744.6 | 3729738.9 | 414.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000958 |     | 0 | 0.23970E-06 | 467736.3 | 3729740.9 | 414.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000959 |     | 0 | 0.23970E-06 | 467728.0 | 3729742.8 | 414.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000960 |     | 0 | 0.23970E-06 | 467719.8 | 3729744.8 | 414.7 | 0.00 3.95 |

SchoolDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000961 |     | 0 | 0.23970E-06 | 467712.4 | 3729749.0 | 414.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000962 |     | 0 | 0.23970E-06 | 467705.1 | 3729753.3 | 415.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000963 |     | 0 | 0.23970E-06 | 467697.7 | 3729757.6 | 414.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000964 |     | 0 | 0.23970E-06 | 467690.4 | 3729761.9 | 414.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000965 |     | 0 | 0.23970E-06 | 467682.9 | 3729766.0 | 414.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000966 |     | 0 | 0.23970E-06 | 467675.5 | 3729770.1 | 414.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000967 |     | 0 | 0.23970E-06 | 467668.1 | 3729774.2 | 414.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000968 |     | 0 | 0.23970E-06 | 467660.7 | 3729778.4 | 413.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000969 |     | 0 | 0.23970E-06 | 467653.7 | 3729783.2 | 413.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000970 |     | 0 | 0.23970E-06 | 467645.9 | 3729786.2 | 413.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000971 |     | 0 | 0.23970E-06 | 467637.6 | 3729788.0 | 412.8 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\SchoolDPM\SchoolDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 7  
 ELEV URBAN

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

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

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| L0000972 |     | 0 | 0.23970E-06 | 467629.4 | 3729790.2 | 412.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000973 |     | 0 | 0.23970E-06 | 467621.7 | 3729793.7 | 412.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000974 |     | 0 | 0.23970E-06 | 467613.9 | 3729797.2 | 411.7 | 0.00 | 3.95 |

SchoolDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0000975 |     | 0 | 0.23970E-06 | 467606.2 | 3729800.7 | 411.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000976 |     | 0 | 0.23970E-06 | 467598.1 | 3729802.7 | 411.2 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000977 |     | 0 | 0.23970E-06 | 467589.6 | 3729802.9 | 410.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000978 |     | 0 | 0.23970E-06 | 467581.1 | 3729803.1 | 410.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000979 |     | 0 | 0.23970E-06 | 467572.6 | 3729803.3 | 410.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000980 |     | 0 | 0.23970E-06 | 467564.1 | 3729803.6 | 410.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000981 |     | 0 | 0.23970E-06 | 467555.6 | 3729803.8 | 410.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000982 |     | 0 | 0.23970E-06 | 467547.1 | 3729804.0 | 410.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000983 |     | 0 | 0.23970E-06 | 467538.6 | 3729804.2 | 409.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000984 |     | 0 | 0.23970E-06 | 467530.1 | 3729804.5 | 409.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000985 |     | 0 | 0.23970E-06 | 467521.6 | 3729804.7 | 408.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000986 |     | 0 | 0.23970E-06 | 467513.1 | 3729805.0 | 406.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000987 |     | 0 | 0.23970E-06 | 467504.6 | 3729805.3 | 405.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000988 |     | 0 | 0.23970E-06 | 467496.1 | 3729805.6 | 404.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000989 |     | 0 | 0.23970E-06 | 467487.6 | 3729805.9 | 404.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000990 |     | 0 | 0.23970E-06 | 467479.1 | 3729806.2 | 403.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000991 |     | 0 | 0.23970E-06 | 467470.6 | 3729806.5 | 402.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000992 |     | 0 | 0.23970E-06 | 467462.1 | 3729806.8 | 402.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000993 |     | 0 | 0.23970E-06 | 467453.7 | 3729807.1 | 402.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000994 |     | 0 | 0.23970E-06 | 467445.2 | 3729807.4 | 402.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000995 |     | 0 | 0.23970E-06 | 467436.8 | 3729809.0 | 402.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000996 |     | 0 | 0.23970E-06 | 467428.6 | 3729811.0 | 401.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000997 |     | 0 | 0.23970E-06 | 467420.3 | 3729813.0 | 401.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0000998 |     | 0 | 0.23970E-06 | 467412.1 | 3729815.1 | 401.4 | 0.00 3.95 |

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|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0000999 |     | 0 | 0.23970E-06 | 467403.8 | 3729817.1 | 401.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001000 |     | 0 | 0.23970E-06 | 467395.6 | 3729819.1 | 400.8 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001001 |     | 0 | 0.23970E-06 | 467387.3 | 3729821.1 | 400.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001002 |     | 0 | 0.23970E-06 | 467379.1 | 3729823.2 | 400.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001003 |     | 0 | 0.23970E-06 | 467370.8 | 3729825.2 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001004 |     | 0 | 0.23970E-06 | 467362.5 | 3729827.2 | 400.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001005 |     | 0 | 0.23970E-06 | 467354.3 | 3729829.2 | 399.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001006 |     | 0 | 0.23970E-06 | 467346.0 | 3729831.2 | 399.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001007 |     | 0 | 0.23970E-06 | 467337.8 | 3729833.3 | 399.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001008 |     | 0 | 0.23970E-06 | 467329.4 | 3729834.7 | 399.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001009 |     | 0 | 0.23970E-06 | 467321.0 | 3729835.9 | 398.7 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001010 |     | 0 | 0.23970E-06 | 467312.6 | 3729837.1 | 398.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001011 |     | 0 | 0.23970E-06 | 467304.2 | 3729838.3 | 398.3 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 8  
 ELEV URBAN

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

| INIT.    | URBAN       | NUMBER EMISSION RATE | BASE     | RELEASE   | INIT.    |
|----------|-------------|----------------------|----------|-----------|----------|
| SOURCE   | SCALAR VARY | PART. (GRAMS/SEC)    | X        | Y         | SY       |
| SZ       | ID          | CATS.                | (METERS) | (METERS)  | (METERS) |
| (METERS) | BY          |                      |          |           |          |
| L0001012 | 0           | 0.23970E-06          | 467295.7 | 3729839.5 | 398.1    |

SchoolDPM

|          |     |   |             |          |           |       |           |
|----------|-----|---|-------------|----------|-----------|-------|-----------|
| 1.86     | YES |   |             |          |           |       |           |
| L0001013 |     | 0 | 0.23970E-06 | 467287.3 | 3729839.0 | 398.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001014 |     | 0 | 0.23970E-06 | 467278.8 | 3729838.5 | 397.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001015 |     | 0 | 0.23970E-06 | 467270.3 | 3729837.9 | 397.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001016 |     | 0 | 0.23970E-06 | 467261.8 | 3729837.4 | 397.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001017 |     | 0 | 0.23970E-06 | 467253.3 | 3729836.9 | 397.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001018 |     | 0 | 0.23970E-06 | 467244.8 | 3729836.3 | 397.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001019 |     | 0 | 0.23970E-06 | 467236.4 | 3729835.8 | 398.1 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001020 |     | 0 | 0.23970E-06 | 467227.9 | 3729835.3 | 398.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001021 |     | 0 | 0.23970E-06 | 467219.4 | 3729834.8 | 398.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001022 |     | 0 | 0.23970E-06 | 467211.1 | 3729833.0 | 399.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001023 |     | 0 | 0.23970E-06 | 467202.9 | 3729830.8 | 400.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001024 |     | 0 | 0.23970E-06 | 467194.7 | 3729828.7 | 400.7 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001025 |     | 0 | 0.23970E-06 | 467186.4 | 3729826.5 | 401.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001026 |     | 0 | 0.23970E-06 | 467178.2 | 3729824.4 | 401.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001027 |     | 0 | 0.23970E-06 | 467170.0 | 3729822.2 | 402.0 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001028 |     | 0 | 0.23970E-06 | 467161.8 | 3729820.1 | 401.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001029 |     | 0 | 0.23970E-06 | 467153.5 | 3729817.9 | 401.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001030 |     | 0 | 0.23970E-06 | 467145.3 | 3729815.8 | 401.5 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001031 |     | 0 | 0.23970E-06 | 467137.1 | 3729813.6 | 401.3 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001032 |     | 0 | 0.23970E-06 | 467128.9 | 3729811.5 | 400.9 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001033 |     | 0 | 0.23970E-06 | 467120.7 | 3729809.3 | 400.6 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001034 |     | 0 | 0.23970E-06 | 467112.4 | 3729807.2 | 400.4 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001035 |     | 0 | 0.23970E-06 | 467104.2 | 3729805.0 | 399.8 | 0.00 3.95 |
| 1.86     | YES |   |             |          |           |       |           |
| L0001036 |     | 0 | 0.23970E-06 | 467096.0 | 3729802.9 | 398.8 | 0.00 3.95 |

SchoolDPM

|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001037 |     | 0 | 0.23970E-06 | 467087.7 | 3729801.1 | 397.6 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001038 |     | 0 | 0.23970E-06 | 467079.4 | 3729799.3 | 396.3 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001039 |     | 0 | 0.23970E-06 | 467071.1 | 3729797.5 | 396.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001040 |     | 0 | 0.23970E-06 | 467062.8 | 3729795.6 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001041 |     | 0 | 0.23970E-06 | 467054.5 | 3729793.8 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001042 |     | 0 | 0.23970E-06 | 467046.2 | 3729792.0 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001043 |     | 0 | 0.23970E-06 | 467037.9 | 3729790.2 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001044 |     | 0 | 0.23970E-06 | 467029.6 | 3729788.3 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001045 |     | 0 | 0.23970E-06 | 467021.3 | 3729786.5 | 396.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001046 |     | 0 | 0.23970E-06 | 467013.0 | 3729784.7 | 397.1 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001047 |     | 0 | 0.23970E-06 | 467004.6 | 3729782.9 | 398.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001048 |     | 0 | 0.23970E-06 | 466996.3 | 3729781.1 | 399.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001049 |     | 0 | 0.23970E-06 | 466988.0 | 3729779.2 | 401.2 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001050 |     | 0 | 0.23970E-06 | 466979.7 | 3729777.4 | 401.9 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001051 |     | 0 | 0.23970E-06 | 466971.4 | 3729775.6 | 402.6 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\SchoolDPM\SchoolDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

\*\*\*MODELOPTs: RegDFAULT CONC PAGE 9  
 ELEV URBAN

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

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

SchoolDPM

|          |   |             |          |           |       |      |      |
|----------|---|-------------|----------|-----------|-------|------|------|
| L0001052 | 0 | 0.23970E-06 | 466963.1 | 3729773.8 | 403.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001053 | 0 | 0.23970E-06 | 466954.8 | 3729771.9 | 403.0 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001054 | 0 | 0.23970E-06 | 466946.5 | 3729770.1 | 402.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001055 | 0 | 0.23970E-06 | 466938.2 | 3729768.3 | 402.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001056 | 0 | 0.23970E-06 | 466929.9 | 3729766.5 | 402.0 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001057 | 0 | 0.23970E-06 | 466921.6 | 3729764.6 | 401.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001058 | 0 | 0.23970E-06 | 466913.4 | 3729762.6 | 401.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001059 | 0 | 0.23970E-06 | 466905.1 | 3729760.5 | 400.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001060 | 0 | 0.23970E-06 | 466896.9 | 3729758.3 | 399.9 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001061 | 0 | 0.23970E-06 | 466888.7 | 3729756.2 | 398.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001062 | 0 | 0.23970E-06 | 466880.5 | 3729754.1 | 397.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001063 | 0 | 0.23970E-06 | 466872.2 | 3729752.0 | 396.8 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001064 | 0 | 0.23970E-06 | 466864.0 | 3729749.9 | 396.5 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001065 | 0 | 0.23970E-06 | 466855.8 | 3729747.7 | 396.4 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001066 | 0 | 0.23970E-06 | 466847.5 | 3729745.6 | 396.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001067 | 0 | 0.23970E-06 | 466839.3 | 3729743.5 | 396.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001068 | 0 | 0.23970E-06 | 466831.1 | 3729741.4 | 397.2 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001069 | 0 | 0.23970E-06 | 466822.8 | 3729739.2 | 398.2 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001070 | 0 | 0.23970E-06 | 466814.6 | 3729737.1 | 399.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001071 | 0 | 0.23970E-06 | 466806.4 | 3729735.0 | 400.1 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001072 | 0 | 0.23970E-06 | 466798.1 | 3729732.9 | 400.3 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001073 | 0 | 0.23970E-06 | 466789.9 | 3729730.8 | 400.6 | 0.00 | 3.95 |
| 1.86 YES |   |             |          |           |       |      |      |
| L0001074 | 0 | 0.23970E-06 | 466781.7 | 3729728.6 | 400.9 | 0.00 | 3.95 |

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|          |     |   |             |          |           |       |      |      |
|----------|-----|---|-------------|----------|-----------|-------|------|------|
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001075 |     | 0 | 0.23970E-06 | 466773.5 | 3729726.5 | 401.4 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001076 |     | 0 | 0.23970E-06 | 466765.2 | 3729724.4 | 402.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001077 |     | 0 | 0.23970E-06 | 466757.0 | 3729722.3 | 402.5 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001078 |     | 0 | 0.23970E-06 | 466748.8 | 3729720.1 | 403.0 | 0.00 | 3.95 |
| 1.86     | YES |   |             |          |           |       |      |      |
| L0001079 |     | 0 | 0.23970E-06 | 466740.5 | 3729718.0 | 403.1 | 0.00 | 3.95 |

1.86 YES  
 ♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\NicholsMine\SchoolDPM\SchoolDPM.isc \*\*\* 09/11/15  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

## \*\*\* AREAPOLY SOURCE DATA \*\*\*

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

|        |     |   |             |          |           |       |      |    |
|--------|-----|---|-------------|----------|-----------|-------|------|----|
| PAREA1 |     | 0 | 0.23635E-08 | 467190.2 | 3730371.0 | 488.2 | 5.00 | 72 |
| 1.00   | YES |   |             |          |           |       |      |    |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

## \*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

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

SchoolDPM

|          |            |            |            |            |            |   |
|----------|------------|------------|------------|------------|------------|---|
| ALL      | PAREA1     | , L0000772 | , L0000773 | , L0000774 | , L0000775 | , |
| L0000776 | , L0000777 | , L0000778 | ,          |            |            |   |
|          | L0000779   | , L0000780 | , L0000781 | , L0000782 | , L0000783 | , |
| L0000784 | , L0000785 | , L0000786 | ,          |            |            |   |
|          | L0000787   | , L0000788 | , L0000789 | , L0000790 | , L0000791 | , |
| L0000792 | , L0000793 | , L0000794 | ,          |            |            |   |
|          | L0000795   | , L0000796 | , L0000797 | , L0000798 | , L0000799 | , |
| L0000800 | , L0000801 | , L0000802 | ,          |            |            |   |
|          | L0000803   | , L0000804 | , L0000805 | , L0000806 | , L0000807 | , |
| L0000808 | , L0000809 | , L0000810 | ,          |            |            |   |
|          | L0000811   | , L0000812 | , L0000813 | , L0000814 | , L0000815 | , |
| L0000816 | , L0000817 | , L0000818 | ,          |            |            |   |
|          | L0000819   | , L0000820 | , L0000821 | , L0000822 | , L0000823 | , |
| L0000824 | , L0000825 | , L0000826 | ,          |            |            |   |
|          | L0000827   | , L0000828 | , L0000829 | , L0000830 | , L0000831 | , |
| L0000832 | , L0000833 | , L0000834 | ,          |            |            |   |
|          | L0000835   | , L0000836 | , L0000837 | , L0000838 | , L0000839 | , |
| L0000840 | , L0000841 | , L0000842 | ,          |            |            |   |
|          | L0000843   | , L0000844 | , L0000845 | , L0000846 | , L0000847 | , |
| L0000848 | , L0000849 | , L0000850 | ,          |            |            |   |
|          | L0000851   | , L0000852 | , L0000853 | , L0000854 | , L0000855 | , |
| L0000856 | , L0000857 | , L0000858 | ,          |            |            |   |
|          | L0000859   | , L0000860 | , L0000861 | , L0000862 | , L0000863 | , |
| L0000864 | , L0000865 | , L0000866 | ,          |            |            |   |
|          | L0000867   | , L0000868 | , L0000869 | , L0000870 | , L0000871 | , |
| L0000872 | , L0000873 | , L0000874 | ,          |            |            |   |
|          | L0000875   | , L0000876 | , L0000877 | , L0000878 | , L0000879 | , |
| L0000880 | , L0000881 | , L0000882 | ,          |            |            |   |
|          | L0000883   | , L0000884 | , L0000885 | , L0000886 | , L0000887 | , |
| L0000888 | , L0000889 | , L0000890 | ,          |            |            |   |
|          | L0000891   | , L0000892 | , L0000893 | , L0000894 | , L0000895 | , |
| L0000896 | , L0000897 | , L0000898 | ,          |            |            |   |

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L0000904      L0000899      , L0000900      , L0000901      , L0000902      , L0000903      ,
, L0000905      , L0000906      ,

L0000912      L0000907      , L0000908      , L0000909      , L0000910      , L0000911      ,
, L0000913      , L0000914      ,

L0000920      L0000915      , L0000916      , L0000917      , L0000918      , L0000919      ,
, L0000921      , L0000922      ,

L0000928      L0000923      , L0000924      , L0000925      , L0000926      , L0000927      ,
, L0000929      , L0000930      ,
♀ *** AERMOD - VERSION 15181 *** *** C:\Lakes\AERMOD
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**MODELOPTs:  RegDFAULT CONC      PAGE 12
               ELEV      URBAN

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## \*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

| SRCGROUP ID | SOURCE IDs                                                                      |
|-------------|---------------------------------------------------------------------------------|
| -----       | -----                                                                           |
| L0000936    | L0000931 , L0000932 , L0000933 , L0000934 , L0000935 ,<br>L0000937 , L0000938 , |
| L0000944    | L0000939 , L0000940 , L0000941 , L0000942 , L0000943 ,<br>L0000945 , L0000946 , |
| L0000952    | L0000947 , L0000948 , L0000949 , L0000950 , L0000951 ,<br>L0000953 , L0000954 , |
| L0000960    | L0000955 , L0000956 , L0000957 , L0000958 , L0000959 ,<br>L0000961 , L0000962 , |
| L0000968    | L0000963 , L0000964 , L0000965 , L0000966 , L0000967 ,<br>L0000969 , L0000970 , |
| L0000976    | L0000971 , L0000972 , L0000973 , L0000974 , L0000975 ,<br>L0000977 , L0000978 , |
| L0000984    | L0000979 , L0000980 , L0000981 , L0000982 , L0000983 ,<br>L0000985 , L0000986 , |

# SchoolDPM

|          |                        |                          |                 |            |            |   |
|----------|------------------------|--------------------------|-----------------|------------|------------|---|
| L0000992 | L0000987<br>, L0000993 | , L0000988<br>, L0000994 | , L0000989<br>, | , L0000990 | , L0000991 | , |
| L0001000 | L0000995<br>, L0001001 | , L0000996<br>, L0001002 | , L0000997<br>, | , L0000998 | , L0000999 | , |
| L0001008 | L0001003<br>, L0001009 | , L0001004<br>, L0001010 | , L0001005<br>, | , L0001006 | , L0001007 | , |
| L0001016 | L0001011<br>, L0001017 | , L0001012<br>, L0001018 | , L0001013<br>, | , L0001014 | , L0001015 | , |
| L0001024 | L0001019<br>, L0001025 | , L0001020<br>, L0001026 | , L0001021<br>, | , L0001022 | , L0001023 | , |
| L0001032 | L0001027<br>, L0001033 | , L0001028<br>, L0001034 | , L0001029<br>, | , L0001030 | , L0001031 | , |
| L0001040 | L0001035<br>, L0001041 | , L0001036<br>, L0001042 | , L0001037<br>, | , L0001038 | , L0001039 | , |
| L0001048 | L0001043<br>, L0001049 | , L0001044<br>, L0001050 | , L0001045<br>, | , L0001046 | , L0001047 | , |
| L0001056 | L0001051<br>, L0001057 | , L0001052<br>, L0001058 | , L0001053<br>, | , L0001054 | , L0001055 | , |
| L0001064 | L0001059<br>, L0001065 | , L0001060<br>, L0001066 | , L0001061<br>, | , L0001062 | , L0001063 | , |
| L0001072 | L0001067<br>, L0001073 | , L0001068<br>, L0001074 | , L0001069<br>, | , L0001070 | , L0001071 | , |
|          | L0001075               | , L0001076               | , L0001077      | , L0001078 | , L0001079 | , |

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

\*\*\*

URBAN ID URBAN POP

SOURCE IDs

SchoolDPM

|          |            |            |            |                         |
|----------|------------|------------|------------|-------------------------|
| -----    | -----      |            |            | -----                   |
|          | 2100516.   | PAREA1     | , L0000772 | , L0000773 , L0000774 , |
| L0000775 | , L0000776 | , L0000777 | ,          |                         |
| L0000778 | ,          |            |            |                         |
|          | L0000779   | , L0000780 | , L0000781 | , L0000782 , L0000783 , |
| L0000784 | , L0000785 | , L0000786 | ,          |                         |
|          | L0000787   | , L0000788 | , L0000789 | , L0000790 , L0000791 , |
| L0000792 | , L0000793 | , L0000794 | ,          |                         |
|          | L0000795   | , L0000796 | , L0000797 | , L0000798 , L0000799 , |
| L0000800 | , L0000801 | , L0000802 | ,          |                         |
|          | L0000803   | , L0000804 | , L0000805 | , L0000806 , L0000807 , |
| L0000808 | , L0000809 | , L0000810 | ,          |                         |
|          | L0000811   | , L0000812 | , L0000813 | , L0000814 , L0000815 , |
| L0000816 | , L0000817 | , L0000818 | ,          |                         |
|          | L0000819   | , L0000820 | , L0000821 | , L0000822 , L0000823 , |
| L0000824 | , L0000825 | , L0000826 | ,          |                         |
|          | L0000827   | , L0000828 | , L0000829 | , L0000830 , L0000831 , |
| L0000832 | , L0000833 | , L0000834 | ,          |                         |
|          | L0000835   | , L0000836 | , L0000837 | , L0000838 , L0000839 , |
| L0000840 | , L0000841 | , L0000842 | ,          |                         |
|          | L0000843   | , L0000844 | , L0000845 | , L0000846 , L0000847 , |
| L0000848 | , L0000849 | , L0000850 | ,          |                         |
|          | L0000851   | , L0000852 | , L0000853 | , L0000854 , L0000855 , |
| L0000856 | , L0000857 | , L0000858 | ,          |                         |
|          | L0000859   | , L0000860 | , L0000861 | , L0000862 , L0000863 , |
| L0000864 | , L0000865 | , L0000866 | ,          |                         |
|          | L0000867   | , L0000868 | , L0000869 | , L0000870 , L0000871 , |
| L0000872 | , L0000873 | , L0000874 | ,          |                         |
|          | L0000875   | , L0000876 | , L0000877 | , L0000878 , L0000879 , |
| L0000880 | , L0000881 | , L0000882 | ,          |                         |
|          | L0000883   | , L0000884 | , L0000885 | , L0000886 , L0000887 , |
| L0000888 | , L0000889 | , L0000890 | ,          |                         |

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L0000896      L0000891      , L0000892      , L0000893      , L0000894      , L0000895      ,
               , L0000897      , L0000898      ,
L0000904      L0000899      , L0000900      , L0000901      , L0000902      , L0000903      ,
               , L0000905      , L0000906      ,
L0000912      L0000907      , L0000908      , L0000909      , L0000910      , L0000911      ,
               , L0000913      , L0000914      ,
L0000920      L0000915      , L0000916      , L0000917      , L0000918      , L0000919      ,
               , L0000921      , L0000922      ,
L0000928      L0000923      , L0000924      , L0000925      , L0000926      , L0000927      ,
               , L0000929      , L0000930      ,
♀ *** AERMOD - VERSION 15181 *** *** C:\Lakes\AERMOD
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**MODELOPTs:  RegDFAULT CONC      PAGE 14
               ELEV      URBAN

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

\*\*\*

| URBAN ID | URBAN POP                                                                         | SOURCE IDs |
|----------|-----------------------------------------------------------------------------------|------------|
| -----    | -----                                                                             | -----      |
| L0000936 | L0000931 , L0000932 , L0000933 , L0000934 , L0000935 ,<br>, L0000937 , L0000938 , |            |
| L0000944 | L0000939 , L0000940 , L0000941 , L0000942 , L0000943 ,<br>, L0000945 , L0000946 , |            |
| L0000952 | L0000947 , L0000948 , L0000949 , L0000950 , L0000951 ,<br>, L0000953 , L0000954 , |            |
| L0000960 | L0000955 , L0000956 , L0000957 , L0000958 , L0000959 ,<br>, L0000961 , L0000962 , |            |
| L0000968 | L0000963 , L0000964 , L0000965 , L0000966 , L0000967 ,<br>, L0000969 , L0000970 , |            |
| L0000976 | L0000971 , L0000972 , L0000973 , L0000974 , L0000975 ,<br>, L0000977 , L0000978 , |            |

SchoolDPM

|          |                        |                          |                 |            |            |   |
|----------|------------------------|--------------------------|-----------------|------------|------------|---|
| L0000984 | L0000979<br>, L0000985 | , L0000980<br>, L0000986 | , L0000981<br>, | , L0000982 | , L0000983 | , |
| L0000992 | L0000987<br>, L0000993 | , L0000988<br>, L0000994 | , L0000989<br>, | , L0000990 | , L0000991 | , |
| L0001000 | L0000995<br>, L0001001 | , L0000996<br>, L0001002 | , L0000997<br>, | , L0000998 | , L0000999 | , |
| L0001008 | L0001003<br>, L0001009 | , L0001004<br>, L0001010 | , L0001005<br>, | , L0001006 | , L0001007 | , |
| L0001016 | L0001011<br>, L0001017 | , L0001012<br>, L0001018 | , L0001013<br>, | , L0001014 | , L0001015 | , |
| L0001024 | L0001019<br>, L0001025 | , L0001020<br>, L0001026 | , L0001021<br>, | , L0001022 | , L0001023 | , |
| L0001032 | L0001027<br>, L0001033 | , L0001028<br>, L0001034 | , L0001029<br>, | , L0001030 | , L0001031 | , |
| L0001040 | L0001035<br>, L0001041 | , L0001036<br>, L0001042 | , L0001037<br>, | , L0001038 | , L0001039 | , |
| L0001048 | L0001043<br>, L0001049 | , L0001044<br>, L0001050 | , L0001045<br>, | , L0001046 | , L0001047 | , |
| L0001056 | L0001051<br>, L0001057 | , L0001052<br>, L0001058 | , L0001053<br>, | , L0001054 | , L0001055 | , |
| L0001064 | L0001059<br>, L0001065 | , L0001060<br>, L0001066 | , L0001061<br>, | , L0001062 | , L0001063 | , |
| L0001072 | L0001067<br>, L0001073 | , L0001068<br>, L0001074 | , L0001069<br>, | , L0001070 | , L0001071 | , |
|          | L0001075               | , L0001076               | , L0001077      | , L0001078 | , L0001079 | , |

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 \*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

(METERS)

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\*\*MODELOPTs: RegDFAULT CONC

ELEV

URBAN

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

DATA \*\*\*

Surface file: ..\elsi8.sfc  
Met Version: 14134  
Profile file: ..\elsi8.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3190  
Name: UNKNOWN

Upper air station no.: 3190  
Name: UNKNOWN

Year: 2008

Year: 2008

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     |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 01   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     | -9.0 | 284.2  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 02   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     | -9.0 | 283.1  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 03   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     | -9.0 | 283.1  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 04   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     | -9.0 | 283.8  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 05   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     | -9.0 | 283.8  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 06   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     | -9.0 | 283.8  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 07   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 1.00   | 999.00 | 999. |     | -9.0 | 283.1  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 08   | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |       |
| 0.54   | 999.00 | 999. |     | -9.0 | 283.8  | 5.5    |        |        |       |       |          |      |      |       |
| 08     | 01     | 01   | 1   | 09   | 27.2   | -9.000 | -9.000 | -9.000 | 60.   | -999. | -99999.0 | 0.23 | 1.00 |       |
| 0.33   | 999.00 | 999. |     | -9.0 | 285.9  | 5.5    |        |        |       |       |          |      |      |       |

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|      |        |      |   |    |        |        |        |        |       |       |          |      |      |
|------|--------|------|---|----|--------|--------|--------|--------|-------|-------|----------|------|------|
| 08   | 01     | 01   | 1 | 10 | 74.6   | -9.000 | -9.000 | -9.000 | 157.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.25 | 999.00 | 999. |   |    | -9.0   | 288.1  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 11 | 107.4  | -9.000 | -9.000 | -9.000 | 375.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.23 | 999.00 | 999. |   |    | -9.0   | 289.9  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 12 | 122.7  | -9.000 | -9.000 | -9.000 | 578.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.22 | 999.00 | 999. |   |    | -9.0   | 289.9  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 13 | 121.3  | -9.000 | -9.000 | -9.000 | 714.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.22 | 999.00 | 999. |   |    | -9.0   | 291.4  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 14 | 102.1  | -9.000 | -9.000 | -9.000 | 763.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.23 | 999.00 | 999. |   |    | -9.0   | 292.0  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 15 | 65.8   | -9.000 | -9.000 | -9.000 | 792.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.27 | 999.00 | 999. |   |    | -9.0   | 291.4  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 16 | 16.0   | -9.000 | -9.000 | -9.000 | 798.  | -999. | -99999.0 | 0.23 | 1.00 |
| 0.36 | 999.00 | 999. |   |    | -9.0   | 290.4  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 17 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 0.63 | 999.00 | 999. |   |    | -9.0   | 288.8  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 18 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00 | 999.00 | 999. |   |    | -9.0   | 287.5  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 19 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00 | 999.00 | 999. |   |    | -9.0   | 286.4  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 20 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00 | 999.00 | 999. |   |    | -9.0   | 285.4  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 21 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00 | 999.00 | 999. |   |    | -9.0   | 284.2  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 22 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00 | 999.00 | 999. |   |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 23 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00 | 999.00 | 999. |   |    | -9.0   | 283.1  | 5.5    |        |       |       |          |      |      |
| 08   | 01     | 01   | 1 | 24 | -999.0 | -9.000 | -9.000 | -9.000 | -999. | -999. | -99999.0 | 0.23 | 1.00 |
| 1.00 | 999.00 | 999. |   |    | -9.0   | 282.5  | 5.5    |        |       |       |          |      |      |

## First hour of profile data

| YR | MO | DY | HR | HEIGHT | F | WDIR  | WSPD   | AMB_TMP | sigmaA | sigmaW | sigmaV |
|----|----|----|----|--------|---|-------|--------|---------|--------|--------|--------|
| 08 | 01 | 01 | 01 | 5.5    | 0 | -999. | -99.00 | 284.3   | 99.0   | -99.00 | -99.00 |
| 08 | 01 | 01 | 01 | 9.1    | 1 | -999. | -99.00 | -999.0  | 99.0   | -99.00 | -99.00 |

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

♀ \*\*\* AERMOD - VERSION 15181 \*\*\* \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 14:35:50

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\*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

SchoolDPM

INCLUDING SOURCE(S): PAREA1 , L0000772

|            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|
| , L0000773 | , L0000774 | , L0000775 | , L0000776 | , L0000777 | , L0000778 | , L0000779 | , L0000780 |
| , L0000781 | , L0000782 | , L0000783 | , L0000784 | , L0000785 | , L0000786 | , L0000787 | , L0000788 |
| , L0000789 | , L0000790 | , L0000791 | , L0000792 | , L0000793 | , L0000794 | , L0000795 | , L0000796 |
| , L0000797 | , L0000798 | , . . .    |            |            |            |            |            |

\*\*\* 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        |                |                    |
| -----       |             |                |                    |
| 467691.85   | 3729489.42  | 0.00244        | 467579.06          |
| 3729454.38  | 0.00195     |                |                    |
| 467520.10   | 3729393.71  | 0.00152        | 467463.70          |
| 3729319.37  | 0.00118     |                |                    |
| 467649.98   | 3729387.73  | 0.00168        | 467709.79          |
| 3729097.21  | 0.00086     |                |                    |
| 467824.29   | 3728994.67  | 0.00074        |                    |

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 \*\*\* 14:35:50

\*\*MODELOPTs: RegDFAULT CONC PAGE 19  
 ELEV URBAN

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

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

\*\*

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

# SchoolDPM

|         |                       |              |            |             |
|---------|-----------------------|--------------|------------|-------------|
| ALL     | 1ST HIGHEST VALUE IS  | 0.00244 AT ( | 467691.85, | 3729489.42, |
| 409.87, | 635.00, 0.00) DC      |              |            |             |
|         | 2ND HIGHEST VALUE IS  | 0.00195 AT ( | 467579.06, | 3729454.38, |
| 408.00, | 635.00, 0.00) DC      |              |            |             |
|         | 3RD HIGHEST VALUE IS  | 0.00168 AT ( | 467649.98, | 3729387.73, |
| 407.39, | 635.00, 0.00) DC      |              |            |             |
|         | 4TH HIGHEST VALUE IS  | 0.00152 AT ( | 467520.10, | 3729393.71, |
| 406.39, | 635.00, 0.00) DC      |              |            |             |
|         | 5TH HIGHEST VALUE IS  | 0.00118 AT ( | 467463.70, | 3729319.37, |
| 402.91, | 635.00, 0.00) DC      |              |            |             |
|         | 6TH HIGHEST VALUE IS  | 0.00086 AT ( | 467709.79, | 3729097.21, |
| 398.41, | 635.00, 0.00) DC      |              |            |             |
|         | 7TH HIGHEST VALUE IS  | 0.00074 AT ( | 467824.29, | 3728994.67, |
| 397.24, | 635.00, 0.00) DC      |              |            |             |
|         | 8TH HIGHEST VALUE IS  | 0.00000 AT ( | 0.00,      | 0.00,       |
| 0.00,   | 0.00, 0.00)           |              |            |             |
|         | 9TH HIGHEST VALUE IS  | 0.00000 AT ( | 0.00,      | 0.00,       |
| 0.00,   | 0.00, 0.00)           |              |            |             |
|         | 10TH HIGHEST VALUE IS | 0.00000 AT ( | 0.00,      | 0.00,       |
| 0.00,   | 0.00, 0.00)           |              |            |             |

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

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 \*\*\* 14:35:50

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 \*\*MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

|            |                                               |
|------------|-----------------------------------------------|
| A Total of | 0 Fatal Error Message(s)                      |
| A Total of | 1 Warning Message(s)                          |
| A Total of | 1916 Informational Message(s)                 |
| A Total of | 43848 Hours Were Processed                    |
| A Total of | 10 Calm Hours Identified                      |
| A Total of | 1906 Missing Hours Identified ( 4.35 Percent) |

## SchoolDPM

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W531 799 MEOPEN: CAUTION! Met Station ID Missing from SURFFILE for  
SURFDATA

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

## **APPENDIX 5.2:**

### **RISK CALCULATIONS**

# Table A1 Quantification of Carcinogenic Risks Residential Exposure Scenario

Mobile Sources - Diesel Particulates

$$\text{DOSE}_{\text{air}} = \text{C}_{\text{air}} \times [\text{BR}/\text{BW}] \times \text{A} \times \text{EF} \times (1 \times 10^{-6})$$

$$\text{RISK}_{\text{air}} = \text{DOSE}_{\text{air}} \times \text{CPF} \times \text{ED}/\text{AT}$$

|                       |             |
|-----------------------|-------------|
| C <sub>air</sub>      | 0.00300     |
| DBR (l/kg)            | 302         |
| EF (350/365)          | 0.95890411  |
| conv factor           | 0.000001    |
| DOSE <sub>air</sub> = | 8.68767E-07 |
| CPF                   | 1.1E+00     |
| ED                    | 70          |
| AT                    | 70          |
| RISK <sub>air</sub> = | 9.56E-07    |
| RISK Per Million =    | 0.96        |

## Quantification of Non Carcinogenic Risks Residential Exposure Scenario

|                |        |
|----------------|--------|
| REL (ug/m3)    | 5      |
| Hazard Index = | 0.0006 |

## Table A2

### Quantification of Carcinogenic Risks

#### Worker Exposure Scenario

Mobile Sources - Diesel Particulates

$$\text{DOSEair} = \text{Cair} \times [\text{BR/BW}] \times \text{A} \times \text{EF} \times (1 \times 10^{-6})$$

$$\text{RISKair} = \text{DOSEair} \times \text{CPF} \times \text{ED/AT}$$

|                    |             |
|--------------------|-------------|
| Cair               | 0.00212     |
| DBR (l/kg)         | 149         |
| EF (245/365)       | 0.671232877 |
| conv factor        | 0.000001    |
| DOSEair =          | 2.12029E-07 |
| CPF                | 1.1E+00     |
| ED                 | 40          |
| AT                 | 70          |
| RISKair =          | 1.33E-07    |
| RISK Per Million = | 0.13        |

### Quantification of Non Carcinogenic Risks

#### Worker Exposure Scenario

|                |          |
|----------------|----------|
| REL (ug/m3)    | 5        |
| Hazard Index = | 0.000424 |

### Table A3

#### Quantification of Carcinogenic Risks

#### School Child Exposure Scenario

Mobile Sources - Diesel Particulates

$$\text{DOSEair} = \text{Cair} \times [\text{BR}/\text{BW}] \times \text{A} \times \text{EF} \times (1 \times 10^{-6})$$

$$\text{RISKair} = \text{DOSEair} \times \text{CPF} \times \text{ED}/\text{AT}$$

|                    |             |
|--------------------|-------------|
| Cair               | 0.00244     |
| DBR (l/kg)         | 581         |
| EF (180/365)       | 0.493150685 |
| conv factor        | 0.000001    |
| DOSEair =          | 6.9911E-07  |
| CPF                | 1.1E+00     |
| ED                 | 9           |
| AT                 | 70          |
| RISKair =          | 9.89E-08    |
| RISK Per Million = | 0.10        |

#### Quantification of Non Carcinogenic Risks

#### School Child Exposure Scenario

|                |          |
|----------------|----------|
| REL (ug/m3)    | 5        |
| Hazard Index = | 0.000488 |