Compass Danbe Centerpointe

MOBILE SOURCE HEALTH RISK ASSESSMENT

CITY OF MORENO VALLEY

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
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 Assessment
PCE	Passenger Car Equivalent
PM10	Particulate Matter 10 microns in diameter or less
Project	Slover Avenue and Cypress Avenue
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

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EXECUTIVE SUMMARY

This report evaluates the potential mobile source health risk impacts to the nearest sensitive receptors (which are residents) and nearest workers to the proposed Project, more specifically, health risk impacts as a result of exposure to diesel particulate matter (DPM) emitted from heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project mobile source health risks.

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

Individual Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is Location R1, which represents the existing residence at 13994 Chagall Court, approximately 152 feet north of the Project site. Since there is no private outdoor living area (back yard) facing the Project site at this location, R1 is placed at the building façade. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 4.48 in one million, which is less than the South Coast Air Quality Management District's (SCAQMD's) significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.002, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance than the MEIR analyzed herein, and DPM generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location R3, which represents the Moreno Valley City Hall at 14177 Frederick Street, approximately 744 feet west of the Project site. R3 is placed at the building façade where a worker could remain for a typical workday. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.18 in one million which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.0006, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyze herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers.

School Child Exposure Scenario:

There are no schools located within a ¼ mile of the Project site. As such, there would be no significant impacts that would occur to any schools in the vicinity of the Project. 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 CARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1). As such, the Project will not cause a significant human health or cancer risk to nearby school children.

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

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Individual Receptor	4.48	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.18	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	0.002	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	0.0006	1.0	NO

1 INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate Project-related impacts to the nearest sensitive receptors (residents) and workers as a result of heavy-duty diesel trucks accessing the site.

The SCAQMD identifies that if a proposed Project is expected to generate/attract heavy-duty diesel trucks, which emit DPM, preparation of a mobile source HRA is recommended. This document serves to meet the SCAQMD's recommendation 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 (2) and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to DPM exposure from a project such as the proposed Project. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

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

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

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

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

1.1 SITE LOCATION

The proposed project is located south of Alessandro Boulevard on either side of Chagall Court in the City of Moreno Valley as shown on Exhibit 1-A. The March Air Reserve Base/Inland Port Airport (MARB/IPA) is located approximately 0.9 miles south of the Project site. The Project site is bordered to the west by vacant land, to the east by vacant land, to the north by commercial and residential uses, and to the south are existing industrial buildings.

This proposed Project includes a General Plan Amendment (GPA) and a Zone Change (ZC). The site is currently designated as Commercial in the City's General Plan, which would require a land use and zoning change to Light Industrial use. The proposed changes are consistent with the zones to the west, south and east of the subject site and adjacent properties. The amendment is in keeping with the uses surrounding the project site.

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates a preliminary site plan for the Project. The Project is anticipated to be developed within a single phase with an anticipated opening year of 2022. The proposed Project consists of the following uses:

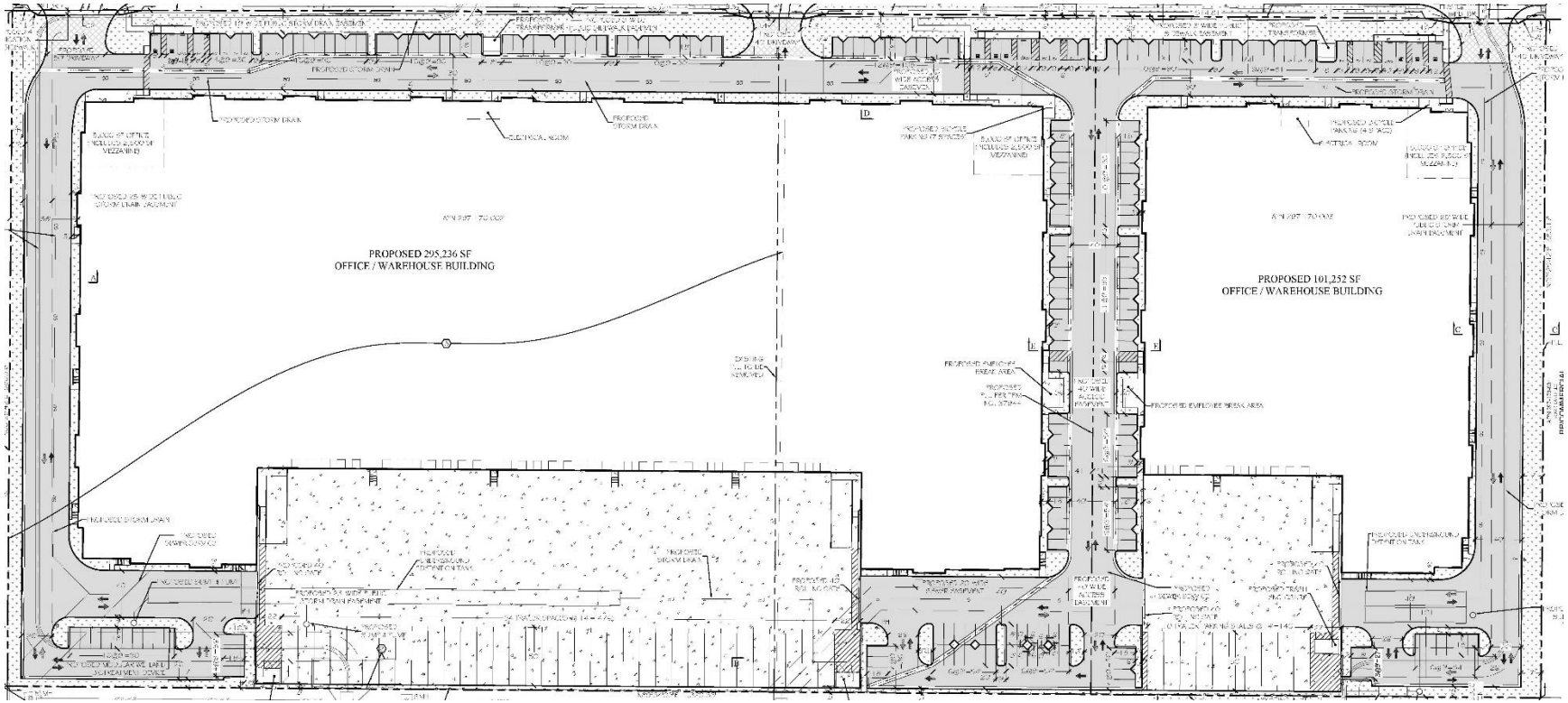
- Building 1: 206,665 square feet (sf) of warehousing (70% of total building sf) and 88,571 sf of high-cube cold storage warehouse use (30% of total building sf) for a total of 295,236 sf for Building 1
- Building 2: 70,876 sf of warehousing (70% of total building sf) and 30,376 sf of high-cube cold storage warehouse use (30% of total building sf) for a total of 101,252 sf for Building 2

At the time this HRA was prepared, the future tenants of the proposed Project were unknown. Because the operating hours of perspective building tenants is not known at this time, this HRA is intended to describe potential toxic emission impacts associated with the expected typical 24-hour, seven day per week operational activities at the Project site, which provides a conservative analysis of impacts.

Per the *Alessandro Warehouse Traffic Analysis* (TA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 742 two-way vehicular trips per day (371 inbound and 371 outbound) which includes 224 two-way truck trips per day (112 inbound and 112 outbound) (4). This HRA evaluates the potential impacts resulting from diesel exhaust from the 224 two-way truck trips generated by the Project.

EXHIBIT 1-A: LOCATION MAP

EXHIBIT 1-B: SITE PLAN



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2 BACKGROUND

2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

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

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per µg/m3 is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body (95% higher than the average population).
- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative.[1] The California Air Resources Board (CARB's) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

2.2 EMISSIONS ESTIMATION

2.2.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter less than 10µm in diameter (PM_{10}) generated with the 2017 version of the EMission FACtor model (EMFAC) developed by the CARB. EMFAC 2017 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (5). The most recent version of this model, EMFAC 2017, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2017. Emission factors calculated using EMFAC 2017 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_{10} emission factors were generated by running EMFAC 2017 in EMFAC Mode for vehicles in the Riverside County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed.

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

The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

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

Calculated emission factors are shown at Table 2-1. As a conservative measure, a 2022 EMFAC 2017 run was conducted and a static 2022 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2022 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2022. Additionally, based on EMFAC 2017, Light-Heavy-Duty Trucks are comprised of 49.43% diesel, Medium-Heavy-Duty Trucks are comprised of 88.51% diesel, and Heavy-Heavy-Duty Trucks are comprised of 98.94% diesel. Trucks fueled by diesel are accounted for by these percentages accordingly in the emissions factor generation.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM10 emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (6):

$Emissions_{speedA}$ (g/s) = $EF_{RunExhaust}$ (g/VMT) * Distance (VMT/trip) * Number of Trips (trips/day) / seconds per day

Where:

$Emissions_{speedA}$ (g/s): Vehicle emissions at a given speed A;

$EF_{RunExhaust}$ (g/VMT): EMFAC running exhaust PM_{10} 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_{10} 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_{10} emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (6):

$Emissions_{idle}$ (g/s) = EF_{idle} (g/hr) * Number of Trips (trips/day) * Idling Time (min/trip) *

60 minutes per hour / seconds per day

Where:

$Emissions_{idle}$ (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM_{10} emission factor.

TABLE 2-1: 2022 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.12462 (g/idle-hr)
5	0.04500 (g/s)
25	0.01931 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix "2.1". 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, as illustrated on Table 2-2. The modeled emission sources are illustrated on Exhibit 2-A. The modeling domain is limited to the Project's primary truck route and includes off-site sources in the study area for approximately 1 mile. This modeling domain is more inclusive and conservative than using only a ¼ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a ¼ mile of the primary source of emissions (1) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).

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

Per the *TA*, the Project is expected to generate a total of approximately 742 two-way vehicular trips per day (371 inbound and 371 outbound) which includes 224 two-way truck trips per day (112 inbound and 112 outbound) (4). This HRA evaluates the potential impacts resulting from diesel exhaust from the 224 two-way truck trips generated by the Project.

EXHIBIT 2-A: MODELED EMISSION SOURCES

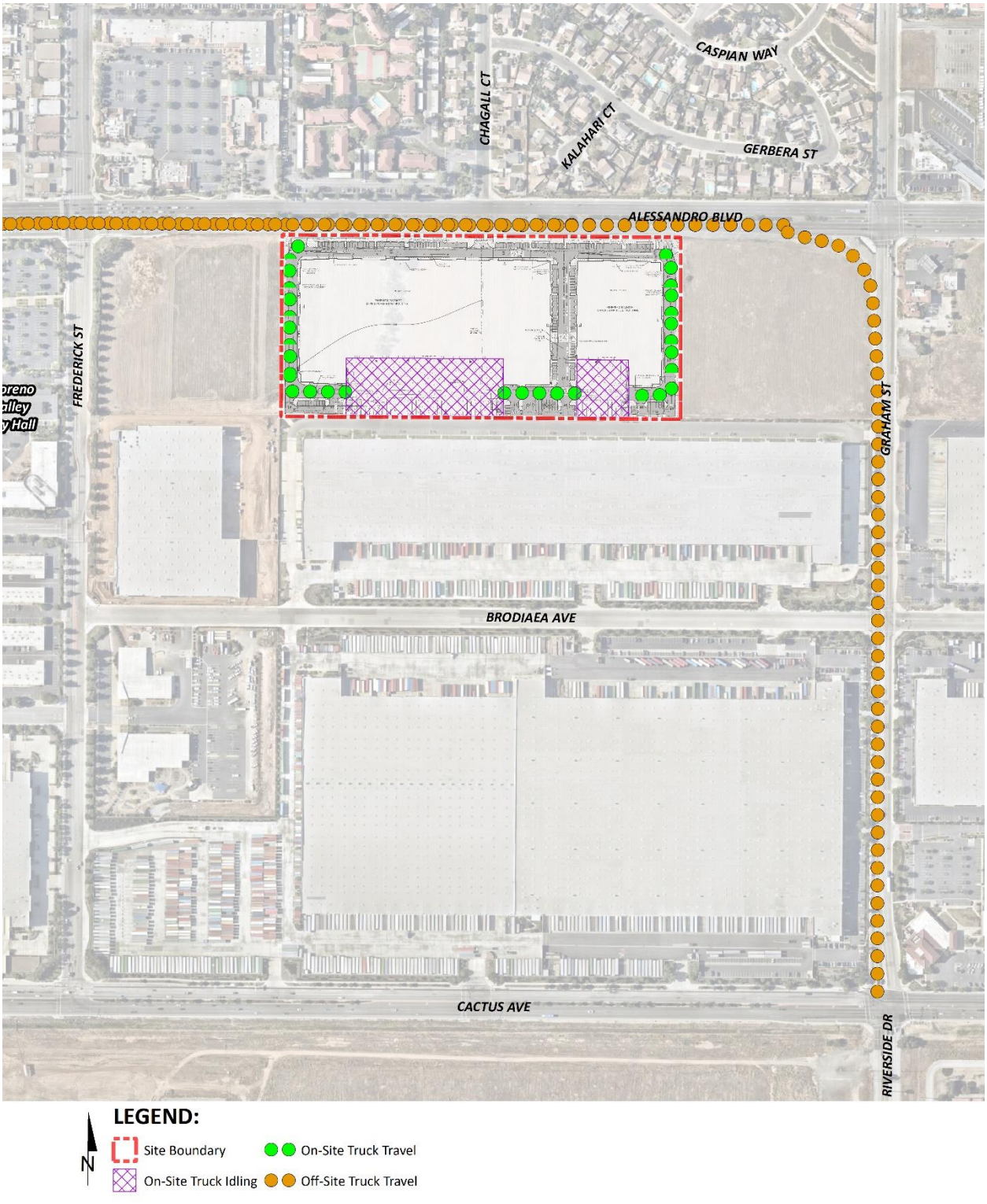


TABLE 2-2: DPM EMISSIONS FROM PROJECT TRUCKS (2022 ANALYSIS YEAR)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	83			0.1246	13.06	1.511E-04
On-Site Idling Building 2	29			0.1246	4.29	4.967E-05
On-Site Travel Building 1	166	69.63	0.0450		6.65	7.694E-05
On-Site Travel Building 2	58	9.04	0.0450		0.83	9.593E-06
Off-Site Travel 90% Inbound Dwy 1	202	127.44	0.0193		3.72	4.309E-05
Off-Site Travel 10% Inbound Dwy 3	22	17.84	0.0193		0.52	6.033E-06
Off-Site Travel 10% Outbound Dwy 1	22	6.86	0.0193		0.20	2.321E-06
Off-Site Travel 90% Outbound Dwy 3	202	28.05	0.0193		0.82	9.484E-06
Off-Site Travel 100% Outbound on Graham St.	224	113.03	0.0193		3.30	3.822E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes. Additionally, this colum includes idling from TRUs accessing the Project, it is assumed that TRUs would idle for up to 30 minutes.

2.2.2 TRANSPORT REFRIGERATION UNITS (TRUS)

In order to account for the possibility of refrigerated uses (cold storage) that would be accommodated by the Project, all trucks accessing the refrigerated portion of the Project site are presumed to also have transport refrigeration units (TRUs). Therefore, for modeling purposes 45 total daily trucks (one-way) are presumed to be trucks with TRUs. In addition to on-site truck idling, the analysis assumes that each TRU accessing the site will also idle for 30 minutes, even though the CARB's anti-idling rules mandate a 5-minute idling time. Based on CARB's *Draft Update to Inventory for Transportation Refrigeration Units* (8) 60% of TRUs are anticipated to be 25+ horsepower and 40% of TRUs are anticipated to be 23 horsepower, as such 60% of TRUs are assumed to be 34 horsepower with a load factor of 0.53 (0.01 grams of PM_{10} per brake-horsepower-hour) and 40% of TRUs are assumed to be 23 horsepower with a load factor of 0.46 (0.12 grams of PM_{10} per brake-horsepower-hour). TRUs are also accounted for during on-site and off-site travel. TRU emission rates were calculated based on CARB's 2017 Off-Road Diesel Emission Factors for analysis year 2022.

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 (2). SCAQMD recommends using the Environmental Protection Agency's (U.S. EPA's) AERMOD model. For purposes of this analysis, the Lakes AERMOD View (Version 9.9.0) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the U.S. EPA's latest AERMOD Version 19191 (9).

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

SCAQMD-recommended model parameters are presented in Table 2-3 (10). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Perris monitoring station (SRA 24) was used to represent local weather conditions and prevailing winds (11). A wind rose exhibit of the FONT monitoring station is provided at Exhibit 2-B.

EXHIBIT 2-B: WIND ROSE (SRA 24)

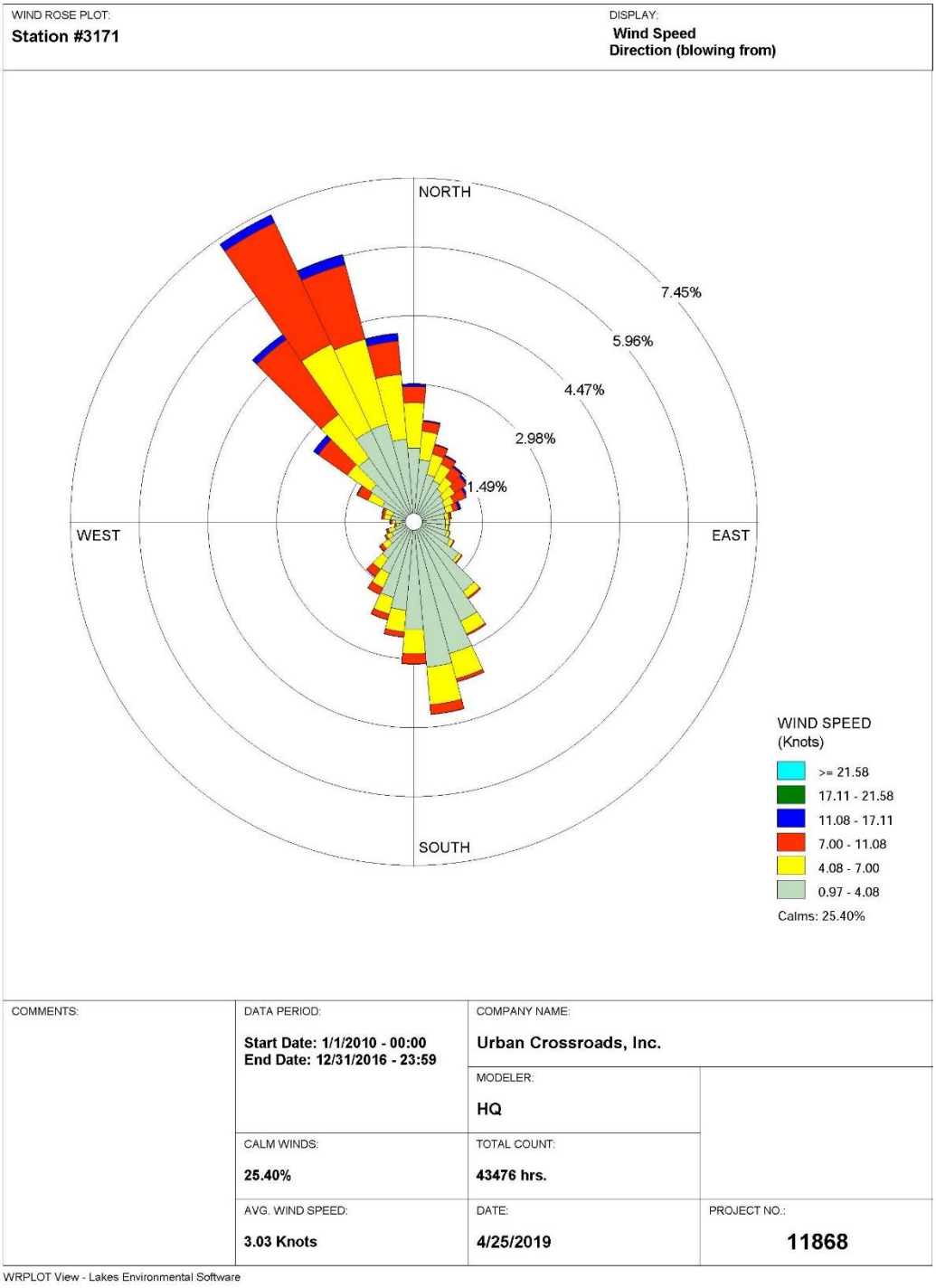


TABLE 2-3: AERMOD MODEL PARAMETERS

Dispersion Coefficient (Urban/Rural)	Urban (Population 2,035,210)
Terrain (Flat/Elevated)	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project site's vicinity. The AERMOD dispersion model summary output files for the proposed Project are presented in Appendix "2.1". Modeled sensitive receptors were placed at residential and non-residential locations.

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

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

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

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

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-4 and 2-5 summarize the Exposure Parameters for Residents and Workers based on 2015 OEHHA Guidelines. Appendix 2.2 includes the detailed risk calculation.

TABLE 2-4: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-5: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

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

2.4 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 10 in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2), for purposes of this analysis, 10 in one million is used as the cancer risk threshold for the proposed Project.

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

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

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

Where:

DOSEair = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (ug/m3)

[BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)

A = inhalation absorption factor

EF = exposure frequency (days/365 days)

BW = body weight (kg)

1 x 10 -6 = conversion factors (ug to mg, L to m3)

RISKair = DOSEair x CPF x ED/AT

Where:

DOSEair = chronic daily intake (mg/kg/day)

CPF = cancer potency factor

ED = number of years within particular age group

AT = averaging time

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 OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 $\mu g/m^3$ (OEHHA 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 ($\mu g/m^3$).

REL_{DPM} = Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

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.

2.6 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS

Individual Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is Location R1, which represents the existing residence at 13994 Chagall Court, approximately 152 feet north of the Project site. Since there is no private outdoor living area (back yard) facing the Project site at this location, R1 is placed at the building façade. At the MEIR, the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 4.48 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.002, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance than the MEIR analyzed herein, and DPM generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated on Exhibit 2-C.

Worker Exposure Scenario[2]*:*

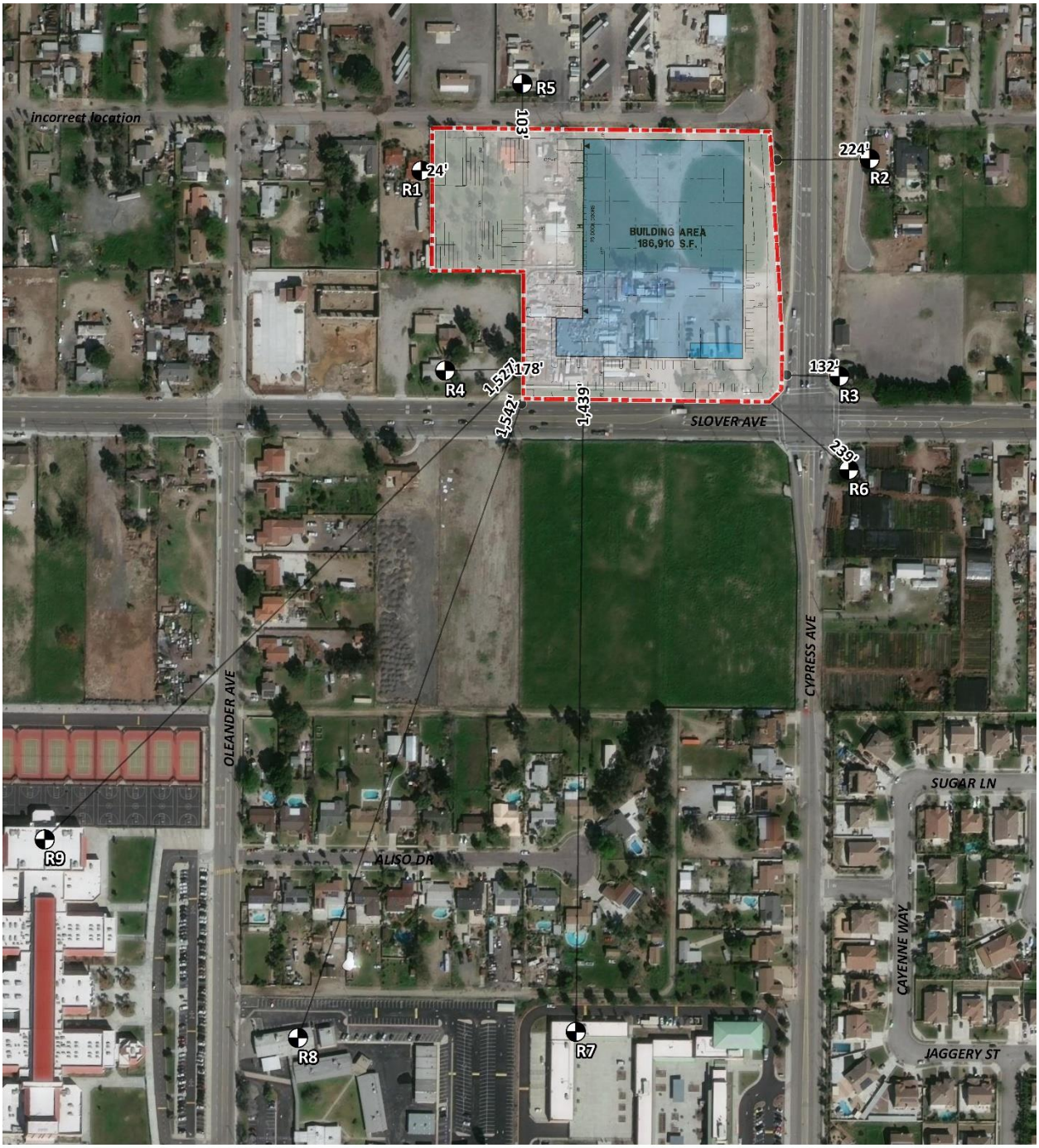
The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location R3, which represents the Moreno Valley City Hall at 14177 Frederick Street, approximately 744 feet west of the Project site. R3 is placed at the building façade where a worker could remain for a typical workday. At the MEIW, the maximum incremental cancer risk impact is 0.18 in one million which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.0006, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyze herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-C.

School Child Exposure Scenario:

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

There are no schools located within a ¼ mile of the Project site. As such, there would be no significant impacts that would occur to any schools in the vicinity of the Project. 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 CARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1). As such, the Project will not cause a significant human health or cancer risk to nearby school children.

EXHIBIT 2-C: MODELED RECEPTORS



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3 REFERENCES

1. **Air Resources Board.** *Air Quality and Land Use Handbook: A Community Health Perspective.* 2005.
2. **South Coast Air Quality Managment District.** Mobile Source Toxics Analysis. [Online] 2003. http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html.
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7. **Wong, Jillian.** *Planning, Rule Development & Area Sources.* December 22, 2016.
8. **California Air Resources Board.** *Draft 2019 Update to Emissions Inventory for Transportation Refrigeration Units.* 2019.
9. **Environmental Protection Agency.** User's Guide for the AMS/EPA Regulatory Model (AERMOD). [Online] 2019. https://www3.epa.gov/ttn/scram/models/aermod/aermod_userguide.pdf.
10. —. User's Guide for the AMS/EPA Regulatory Model (AERMOD). [Online] April 2018. https://www3.epa.gov/ttn/scram/models/aermod/aermod_userguide.pdf.
11. **South Coast Air Quality Management District.** Data for AERMOD. [Online] [Cited: June 10, 2019.] https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod.
12. —. South Coast AQMD Modeling Guidance for AERMOD. [Online] [Cited: September 18, 2019.] http://www.aqmd.gov/home/air-quality/meteorological-data/modeling-guidance.

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4 CERTIFICATIONS

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

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URBAN CROSSROADS, INC.
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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 2.1:

AERMOD MODEL INPUT/OUTPUT

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** AERMOD View Ver. 9.9.0
** Lakes Environmental Software Inc.
** Date: 11/12/2020
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**
**************************************
** AERMOD Control Pathway
**************************************
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   AVERTIME ANNUAL
   URBANOPT 2189641
   POLLUTID OTHER
   RUNORNOT RUN
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CO FINISHED
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** AERMOD Source Pathway
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LOCATION L0002080     VOLUME   475553.441 3752993.272 477.12
LOCATION L0002081     VOLUME   475562.028 3752993.479 477.06
LOCATION L0002082     VOLUME   475570.616 3752993.686 477.00
LOCATION L0002083     VOLUME   475579.203 3752993.892 477.00
LOCATION L0002084     VOLUME   475587.791 3752994.099 477.00
LOCATION L0002085     VOLUME   475596.378 3752994.306 477.00
LOCATION L0002086     VOLUME   475604.966 3752994.513 477.05
LOCATION L0002087     VOLUME   475613.553 3752994.720 477.13
LOCATION L0002088     VOLUME   475622.141 3752994.926 477.21
LOCATION L0002089     VOLUME   475630.728 3752995.133 477.31
LOCATION L0002090     VOLUME   475639.316 3752995.340 477.52
LOCATION L0002091     VOLUME   475647.903 3752995.547 477.72
LOCATION L0002092     VOLUME   475656.491 3752995.754 477.93
LOCATION L0002093     VOLUME   475665.078 3752995.960 478.00
LOCATION L0002094     VOLUME   475673.666 3752996.167 478.00
LOCATION L0002095     VOLUME   475682.253 3752996.374 478.00
LOCATION L0002096     VOLUME   475690.841 3752996.581 478.00
LOCATION L0002097     VOLUME   475699.428 3752996.788 478.00
LOCATION L0002098     VOLUME   475708.016 3752996.994 478.00
LOCATION L0002099     VOLUME   475716.604 3752997.201 478.00
LOCATION L0002100     VOLUME   475725.191 3752997.408 478.00
LOCATION L0002101     VOLUME   475733.779 3752997.615 478.00
LOCATION L0002102     VOLUME   475742.366 3752997.822 478.00
LOCATION L0002103     VOLUME   475750.954 3752998.028 478.00
LOCATION L0002104     VOLUME   475759.541 3752998.235 478.00
LOCATION L0002105     VOLUME   475768.129 3752998.442 478.00
LOCATION L0002106     VOLUME   475776.716 3752998.649 478.00
LOCATION L0002107     VOLUME   475785.304 3752998.856 478.00
LOCATION L0002108     VOLUME   475793.891 3752999.062 478.00
LOCATION L0002109     VOLUME   475802.479 3752999.269 478.00
LOCATION L0002110     VOLUME   475811.066 3752999.476 478.00
LOCATION L0002111     VOLUME   475819.654 3752999.683 478.00
LOCATION L0002112     VOLUME   475828.241 3752999.890 478.00
LOCATION L0002113     VOLUME   475836.829 3753000.096 478.00
LOCATION L0002114     VOLUME   475845.417 3753000.271 478.00
LOCATION L0002115     VOLUME   475854.007 3753000.271 478.00
LOCATION L0002116     VOLUME   475862.597 3753000.271 478.00
LOCATION L0002117     VOLUME   475871.187 3753000.271 478.00
LOCATION L0002118     VOLUME   475879.777 3753000.271 478.00
LOCATION L0002119     VOLUME   475888.367 3753000.271 478.00
LOCATION L0002120     VOLUME   475896.957 3753000.271 478.00
LOCATION L0002121     VOLUME   475905.547 3753000.271 478.09
LOCATION L0002122     VOLUME   475914.137 3753000.271 478.22
LOCATION L0002123     VOLUME   475922.727 3753000.271 478.35
LOCATION L0002124     VOLUME   475931.317 3753000.271 478.49
LOCATION L0002125     VOLUME   475939.907 3753000.271 478.64
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   LOCATION L0002126     VOLUME   475948.497 3753000.271 478.80
   LOCATION L0002127     VOLUME   475957.087 3753000.271 478.95
   LOCATION L0002128     VOLUME   475965.677 3753000.271 479.00
   LOCATION L0002129     VOLUME   475974.267 3753000.271 479.00
   LOCATION L0002130     VOLUME   475982.857 3753000.271 479.00
   LOCATION L0002131     VOLUME   475991.447 3753000.271 479.00
   LOCATION L0002132     VOLUME   476000.037 3753000.271 479.00
   LOCATION L0002133     VOLUME   476008.627 3753000.271 479.00
   LOCATION L0002134     VOLUME   476017.217 3753000.271 479.00
   LOCATION L0002135     VOLUME   476025.807 3753000.271 479.00
   LOCATION L0002136     VOLUME   476034.397 3753000.271 479.00
   LOCATION L0002137     VOLUME   476042.987 3753000.271 479.00
   LOCATION L0002138     VOLUME   476051.577 3753000.271 479.00
   LOCATION L0002139     VOLUME   476060.167 3753000.271 479.00
   LOCATION L0002140     VOLUME   476068.757 3753000.271 479.00
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Off-Site Travel 10% Inbound Dwy 3
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 6.033E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 475059.659, 3752981.381, 476.94, 3.49, 4.00
** 475844.101, 3753000.271, 478.00, 3.49, 4.00
** 476051.893, 3753000.271, 479.00, 3.49, 4.00
** 476341.212, 3753001.266, 478.00, 3.49, 4.00
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   LOCATION L0002142     VOLUME   475072.540 3752981.691 476.84
   LOCATION L0002143     VOLUME   475081.128 3752981.898 476.84
   LOCATION L0002144     VOLUME   475089.715 3752982.105 476.85
   LOCATION L0002145     VOLUME   475098.303 3752982.312 476.90
   LOCATION L0002146     VOLUME   475106.890 3752982.519 476.94
   LOCATION L0002147     VOLUME   475115.478 3752982.725 476.98
   LOCATION L0002148     VOLUME   475124.065 3752982.932 477.00
   LOCATION L0002149     VOLUME   475132.653 3752983.139 477.00
   LOCATION L0002150     VOLUME   475141.240 3752983.346 477.00
   LOCATION L0002151     VOLUME   475149.828 3752983.553 477.00
   LOCATION L0002152     VOLUME   475158.415 3752983.759 476.97
   LOCATION L0002153     VOLUME   475167.003 3752983.966 476.95
   LOCATION L0002154     VOLUME   475175.590 3752984.173 476.93
   LOCATION L0002155     VOLUME   475184.178 3752984.380 476.94
   LOCATION L0002156     VOLUME   475192.765 3752984.587 476.96
   LOCATION L0002157     VOLUME   475201.353 3752984.793 476.98
   LOCATION L0002158     VOLUME   475209.940 3752985.000 477.00
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LOCATION L0002159 VOLUME 475218.528 3752985.207 476.99
LOCATION L0002160 VOLUME 475227.115 3752985.414 476.98
LOCATION L0002161 VOLUME 475235.703 3752985.621 476.97
LOCATION L0002162 VOLUME 475244.290 3752985.827 476.98
LOCATION L0002163 VOLUME 475252.878 3752986.034 476.98
LOCATION L0002164 VOLUME 475261.465 3752986.241 476.99
LOCATION L0002165 VOLUME 475270.053 3752986.448 477.00
LOCATION L0002166 VOLUME 475278.640 3752986.655 477.00
LOCATION L0002167 VOLUME 475287.228 3752986.861 477.00
LOCATION L0002168 VOLUME 475295.815 3752987.068 477.00
LOCATION L0002169 VOLUME 475304.403 3752987.275 477.00
LOCATION L0002170 VOLUME 475312.991 3752987.482 477.00
LOCATION L0002171 VOLUME 475321.578 3752987.689 477.00
LOCATION L0002172 VOLUME 475330.166 3752987.895 477.00
LOCATION L0002173 VOLUME 475338.753 3752988.102 477.00
LOCATION L0002174 VOLUME 475347.341 3752988.309 477.00
LOCATION L0002175 VOLUME 475355.928 3752988.516 477.00
LOCATION L0002176 VOLUME 475364.516 3752988.723 477.01
LOCATION L0002177 VOLUME 475373.103 3752988.929 477.04
LOCATION L0002178 VOLUME 475381.691 3752989.136 477.06
LOCATION L0002179 VOLUME 475390.278 3752989.343 477.09
LOCATION L0002180 VOLUME 475398.866 3752989.550 477.10
LOCATION L0002181 VOLUME 475407.453 3752989.757 477.11
LOCATION L0002182 VOLUME 475416.041 3752989.963 477.11
LOCATION L0002183 VOLUME 475424.628 3752990.170 477.10
LOCATION L0002184 VOLUME 475433.216 3752990.377 477.07
LOCATION L0002185 VOLUME 475441.803 3752990.584 477.04
LOCATION L0002186 VOLUME 475450.391 3752990.791 477.00
LOCATION L0002187 VOLUME 475458.978 3752990.997 477.00
LOCATION L0002188 VOLUME 475467.566 3752991.204 477.00
LOCATION L0002189 VOLUME 475476.153 3752991.411 477.00
LOCATION L0002190 VOLUME 475484.741 3752991.618 477.03
LOCATION L0002191 VOLUME 475493.328 3752991.824 477.08
LOCATION L0002192 VOLUME 475501.916 3752992.031 477.13
LOCATION L0002193 VOLUME 475510.503 3752992.238 477.19
LOCATION L0002194 VOLUME 475519.091 3752992.445 477.20
LOCATION L0002195 VOLUME 475527.678 3752992.652 477.20
LOCATION L0002196 VOLUME 475536.266 3752992.858 477.21
LOCATION L0002197 VOLUME 475544.853 3752993.065 477.18
LOCATION L0002198 VOLUME 475553.441 3752993.272 477.12
LOCATION L0002199 VOLUME 475562.028 3752993.479 477.06
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LOCATION L0002202 VOLUME 475587.791 3752994.099 477.00
LOCATION L0002203 VOLUME 475596.378 3752994.306 477.00
LOCATION L0002204 VOLUME 475604.966 3752994.513 477.05
LOCATION L0002205 VOLUME 475613.553 3752994.720 477.13
LOCATION L0002206 VOLUME 475622.141 3752994.926 477.21
LOCATION L0002207 VOLUME 475630.728 3752995.133 477.31
LOCATION L0002208 VOLUME 475639.316 3752995.340 477.52

LOCATION L0002209 VOLUME 475647.903 3752995.547 477.72
LOCATION L0002210 VOLUME 475656.491 3752995.754 477.93
LOCATION L0002211 VOLUME 475665.078 3752995.960 478.00
LOCATION L0002212 VOLUME 475673.666 3752996.167 478.00
LOCATION L0002213 VOLUME 475682.253 3752996.374 478.00
LOCATION L0002214 VOLUME 475690.841 3752996.581 478.00
LOCATION L0002215 VOLUME 475699.428 3752996.788 478.00
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LOCATION L0002225 VOLUME 475785.304 3752998.856 478.00
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LOCATION L0002227 VOLUME 475802.479 3752999.269 478.00
LOCATION L0002228 VOLUME 475811.066 3752999.476 478.00
LOCATION L0002229 VOLUME 475819.654 3752999.683 478.00
LOCATION L0002230 VOLUME 475828.241 3752999.890 478.00
LOCATION L0002231 VOLUME 475836.829 3753000.096 478.00
LOCATION L0002232 VOLUME 475845.417 3753000.271 478.00
LOCATION L0002233 VOLUME 475854.007 3753000.271 478.00
LOCATION L0002234 VOLUME 475862.597 3753000.271 478.00
LOCATION L0002235 VOLUME 475871.187 3753000.271 478.00
LOCATION L0002236 VOLUME 475879.777 3753000.271 478.00
LOCATION L0002237 VOLUME 475888.367 3753000.271 478.00
LOCATION L0002238 VOLUME 475896.957 3753000.271 478.00
LOCATION L0002239 VOLUME 475905.547 3753000.271 478.09
LOCATION L0002240 VOLUME 475914.137 3753000.271 478.22
LOCATION L0002241 VOLUME 475922.727 3753000.271 478.35
LOCATION L0002242 VOLUME 475931.317 3753000.271 478.49
LOCATION L0002243 VOLUME 475939.907 3753000.271 478.64
LOCATION L0002244 VOLUME 475948.497 3753000.271 478.80
LOCATION L0002245 VOLUME 475957.087 3753000.271 478.95
LOCATION L0002246 VOLUME 475965.677 3753000.271 479.00
LOCATION L0002247 VOLUME 475974.267 3753000.271 479.00
LOCATION L0002248 VOLUME 475982.857 3753000.271 479.00
LOCATION L0002249 VOLUME 475991.447 3753000.271 479.00
LOCATION L0002250 VOLUME 476000.037 3753000.271 479.00
LOCATION L0002251 VOLUME 476008.627 3753000.271 479.00
LOCATION L0002252 VOLUME 476017.217 3753000.271 479.00
LOCATION L0002253 VOLUME 476025.807 3753000.271 479.00
LOCATION L0002254 VOLUME 476034.397 3753000.271 479.00
LOCATION L0002255 VOLUME 476042.987 3753000.271 479.00
LOCATION L0002256 VOLUME 476051.577 3753000.271 479.00
LOCATION L0002257 VOLUME 476060.166 3753000.300 479.00
LOCATION L0002258 VOLUME 476068.756 3753000.329 479.00

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   LOCATION L0002259     VOLUME   476077.346 3753000.359 479.00
   LOCATION L0002260     VOLUME   476085.936 3753000.388 479.00
   LOCATION L0002261     VOLUME   476094.526 3753000.418 479.00
   LOCATION L0002262     VOLUME   476103.116 3753000.448 479.00
   LOCATION L0002263     VOLUME   476111.706 3753000.477 479.00
   LOCATION L0002264     VOLUME   476120.296 3753000.507 479.00
   LOCATION L0002265     VOLUME   476128.886 3753000.536 479.00
   LOCATION L0002266     VOLUME   476137.476 3753000.566 479.00
   LOCATION L0002267     VOLUME   476146.066 3753000.595 478.89
   LOCATION L0002268     VOLUME   476154.656 3753000.625 478.74
   LOCATION L0002269     VOLUME   476163.246 3753000.654 478.59
   LOCATION L0002270     VOLUME   476171.836 3753000.684 478.51
   LOCATION L0002271     VOLUME   476180.426 3753000.713 478.66
   LOCATION L0002272     VOLUME   476189.016 3753000.743 478.81
   LOCATION L0002273     VOLUME   476197.606 3753000.772 478.96
   LOCATION L0002274     VOLUME   476206.196 3753000.802 479.00
   LOCATION L0002275     VOLUME   476214.786 3753000.831 479.00
   LOCATION L0002276     VOLUME   476223.376 3753000.861 479.00
   LOCATION L0002277     VOLUME   476231.965 3753000.890 479.00
   LOCATION L0002278     VOLUME   476240.555 3753000.920 479.00
   LOCATION L0002279     VOLUME   476249.145 3753000.949 479.00
   LOCATION L0002280     VOLUME   476257.735 3753000.979 479.00
   LOCATION L0002281     VOLUME   476266.325 3753001.008 478.89
   LOCATION L0002282     VOLUME   476274.915 3753001.038 478.74
   LOCATION L0002283     VOLUME   476283.505 3753001.067 478.59
   LOCATION L0002284     VOLUME   476292.095 3753001.097 478.45
   LOCATION L0002285     VOLUME   476300.685 3753001.126 478.31
   LOCATION L0002286     VOLUME   476309.275 3753001.156 478.17
   LOCATION L0002287     VOLUME   476317.865 3753001.185 478.03
   LOCATION L0002288     VOLUME   476326.455 3753001.215 478.00
   LOCATION L0002289     VOLUME   476335.045 3753001.245 478.00
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Off-Site Travel 10% Outbound Dwy 1
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.321E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 476073.766, 3753000.271, 479.00, 3.49, 4.00
** 476566.895, 3753003.254, 479.00, 3.49, 4.00
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   LOCATION L0002290     VOLUME   476078.061 3753000.297 479.00
   LOCATION L0002291     VOLUME   476086.651 3753000.349 479.00
   LOCATION L0002292     VOLUME   476095.241 3753000.401 479.00
   LOCATION L0002293     VOLUME   476103.831 3753000.453 479.00
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LOCATION L0002294     VOLUME   476112.421 3753000.505 479.00
LOCATION L0002295     VOLUME   476121.010 3753000.557 479.00
LOCATION L0002296     VOLUME   476129.600 3753000.609 479.00
LOCATION L0002297     VOLUME   476138.190 3753000.661 479.00
LOCATION L0002298     VOLUME   476146.780 3753000.713 478.88
LOCATION L0002299     VOLUME   476155.370 3753000.765 478.73
LOCATION L0002300     VOLUME   476163.960 3753000.817 478.58
LOCATION L0002301     VOLUME   476172.549 3753000.869 478.53
LOCATION L0002302     VOLUME   476181.139 3753000.921 478.68
LOCATION L0002303     VOLUME   476189.729 3753000.973 478.83
LOCATION L0002304     VOLUME   476198.319 3753001.025 478.98
LOCATION L0002305     VOLUME   476206.909 3753001.077 479.00
LOCATION L0002306     VOLUME   476215.499 3753001.129 479.00
LOCATION L0002307     VOLUME   476224.088 3753001.181 479.00
LOCATION L0002308     VOLUME   476232.678 3753001.233 479.00
LOCATION L0002309     VOLUME   476241.268 3753001.285 479.00
LOCATION L0002310     VOLUME   476249.858 3753001.337 479.00
LOCATION L0002311     VOLUME   476258.448 3753001.389 479.00
LOCATION L0002312     VOLUME   476267.038 3753001.440 478.88
LOCATION L0002313     VOLUME   476275.628 3753001.492 478.73
LOCATION L0002314     VOLUME   476284.217 3753001.544 478.59
LOCATION L0002315     VOLUME   476292.807 3753001.596 478.45
LOCATION L0002316     VOLUME   476301.397 3753001.648 478.31
LOCATION L0002317     VOLUME   476309.987 3753001.700 478.16
LOCATION L0002318     VOLUME   476318.577 3753001.752 478.02
LOCATION L0002319     VOLUME   476327.167 3753001.804 478.00
LOCATION L0002320     VOLUME   476335.756 3753001.856 478.00
LOCATION L0002321     VOLUME   476344.346 3753001.908 478.00
LOCATION L0002322     VOLUME   476352.936 3753001.960 478.00
LOCATION L0002323     VOLUME   476361.526 3753002.012 478.00
LOCATION L0002324     VOLUME   476370.116 3753002.064 478.00
LOCATION L0002325     VOLUME   476378.706 3753002.116 478.00
LOCATION L0002326     VOLUME   476387.295 3753002.168 478.00
LOCATION L0002327     VOLUME   476395.885 3753002.220 478.00
LOCATION L0002328     VOLUME   476404.475 3753002.272 478.00
LOCATION L0002329     VOLUME   476413.065 3753002.324 478.00
LOCATION L0002330     VOLUME   476421.655 3753002.376 478.00
LOCATION L0002331     VOLUME   476430.245 3753002.428 478.00
LOCATION L0002332     VOLUME   476438.835 3753002.480 478.00
LOCATION L0002333     VOLUME   476447.424 3753002.532 478.14
LOCATION L0002334     VOLUME   476456.014 3753002.583 478.29
LOCATION L0002335     VOLUME   476464.604 3753002.635 478.44
LOCATION L0002336     VOLUME   476473.194 3753002.687 478.59
LOCATION L0002337     VOLUME   476481.784 3753002.739 478.72
LOCATION L0002338     VOLUME   476490.374 3753002.791 478.86
LOCATION L0002339     VOLUME   476498.963 3753002.843 478.99
LOCATION L0002340     VOLUME   476507.553 3753002.895 479.00
LOCATION L0002341     VOLUME   476516.143 3753002.947 479.00
LOCATION L0002342     VOLUME   476524.733 3753002.999 479.00
LOCATION L0002343     VOLUME   476533.323 3753003.051 479.00
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   LOCATION L0002344     VOLUME   476541.913 3753003.103 479.00
   LOCATION L0002345     VOLUME   476550.502 3753003.155 479.00
   LOCATION L0002346     VOLUME   476559.092 3753003.207 479.00
** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Off-Site Travel 90% Outbound Dwy 3
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.484E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 476338.229, 3753001.266, 478.06, 3.49, 4.00
** 476562.080, 3753003.638, 479.00, 3.49, 4.00
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   LOCATION L0002347     VOLUME   476342.524 3753001.311 478.00
   LOCATION L0002348     VOLUME   476351.114 3753001.402 478.00
   LOCATION L0002349     VOLUME   476359.703 3753001.493 478.00
   LOCATION L0002350     VOLUME   476368.293 3753001.584 478.00
   LOCATION L0002351     VOLUME   476376.882 3753001.675 478.00
   LOCATION L0002352     VOLUME   476385.472 3753001.766 478.00
   LOCATION L0002353     VOLUME   476394.061 3753001.857 478.00
   LOCATION L0002354     VOLUME   476402.651 3753001.948 478.00
   LOCATION L0002355     VOLUME   476411.240 3753002.039 478.00
   LOCATION L0002356     VOLUME   476419.830 3753002.130 478.00
   LOCATION L0002357     VOLUME   476428.419 3753002.221 478.00
   LOCATION L0002358     VOLUME   476437.009 3753002.312 478.00
   LOCATION L0002359     VOLUME   476445.598 3753002.403 478.10
   LOCATION L0002360     VOLUME   476454.188 3753002.494 478.26
   LOCATION L0002361     VOLUME   476462.777 3753002.585 478.41
   LOCATION L0002362     VOLUME   476471.367 3753002.676 478.56
   LOCATION L0002363     VOLUME   476479.957 3753002.767 478.70
   LOCATION L0002364     VOLUME   476488.546 3753002.858 478.83
   LOCATION L0002365     VOLUME   476497.136 3753002.949 478.96
   LOCATION L0002366     VOLUME   476505.725 3753003.040 479.00
   LOCATION L0002367     VOLUME   476514.315 3753003.131 479.00
   LOCATION L0002368     VOLUME   476522.904 3753003.222 479.00
   LOCATION L0002369     VOLUME   476531.494 3753003.313 479.00
   LOCATION L0002370     VOLUME   476540.083 3753003.404 479.00
   LOCATION L0002371     VOLUME   476548.673 3753003.495 479.00
   LOCATION L0002372     VOLUME   476557.262 3753003.586 479.00
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Off-Site Travel 100% Outbound on Graham St.
** PREFIX
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** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00003822
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 10
** 476566.036, 3752996.559, 478.95, 3.49, 4.00
** 476584.691, 3752991.262, 478.97, 3.49, 4.00
** 476614.861, 3752984.813, 478.96, 3.49, 4.00
** 476627.298, 3752977.904, 478.81, 3.49, 4.00
** 476638.122, 3752967.770, 478.00, 3.49, 4.00
** 476647.795, 3752952.800, 478.00, 3.49, 4.00
** 476652.171, 3752930.460, 478.00, 3.49, 4.00
** 476656.920, 3752865.684, 477.95, 3.49, 4.00
** 476658.846, 3752792.788, 477.00, 3.49, 4.00
** 476661.982, 3752238.461, 472.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0002373     VOLUME   476570.167 3752995.386 479.00
   LOCATION L0002374     VOLUME   476578.431 3752993.039 479.00
   LOCATION L0002375     VOLUME   476586.727 3752990.826 479.00
   LOCATION L0002376     VOLUME   476595.127 3752989.031 479.00
   LOCATION L0002377     VOLUME   476603.528 3752987.235 479.00
   LOCATION L0002378     VOLUME   476611.928 3752985.440 478.96
   LOCATION L0002379     VOLUME   476619.748 3752982.098 478.85
   LOCATION L0002380     VOLUME   476627.257 3752977.926 478.71
   LOCATION L0002381     VOLUME   476633.535 3752972.065 478.52
   LOCATION L0002382     VOLUME   476639.374 3752965.833 478.31
   LOCATION L0002383     VOLUME   476644.035 3752958.618 478.07
   LOCATION L0002384     VOLUME   476648.115 3752951.168 478.00
   LOCATION L0002385     VOLUME   476649.766 3752942.739 478.00
   LOCATION L0002386     VOLUME   476651.417 3752934.309 478.00
   LOCATION L0002387     VOLUME   476652.512 3752925.804 478.00
   LOCATION L0002388     VOLUME   476653.140 3752917.237 478.00
   LOCATION L0002389     VOLUME   476653.768 3752908.670 478.00
   LOCATION L0002390     VOLUME   476654.396 3752900.103 478.00
   LOCATION L0002391     VOLUME   476655.024 3752891.536 478.00
   LOCATION L0002392     VOLUME   476655.653 3752882.969 478.00
   LOCATION L0002393     VOLUME   476656.281 3752874.402 478.00
   LOCATION L0002394     VOLUME   476656.909 3752865.835 477.98
   LOCATION L0002395     VOLUME   476657.143 3752857.249 477.69
   LOCATION L0002396     VOLUME   476657.370 3752848.662 477.40
   LOCATION L0002397     VOLUME   476657.597 3752840.075 477.12
   LOCATION L0002398     VOLUME   476657.824 3752831.488 477.00
   LOCATION L0002399     VOLUME   476658.051 3752822.901 477.00
   LOCATION L0002400     VOLUME   476658.277 3752814.314 477.00
   LOCATION L0002401     VOLUME   476658.504 3752805.727 477.00
   LOCATION L0002402     VOLUME   476658.731 3752797.140 477.00
   LOCATION L0002403     VOLUME   476658.870 3752788.551 477.00
   LOCATION L0002404     VOLUME   476658.919 3752779.961 477.00
   LOCATION L0002405     VOLUME   476658.968 3752771.372 476.83
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LOCATION L0002406 VOLUME 476659.016 3752762.782 476.54
LOCATION L0002407 VOLUME 476659.065 3752754.192 476.26
LOCATION L0002408 VOLUME 476659.113 3752745.602 476.00
LOCATION L0002409 VOLUME 476659.162 3752737.012 476.00
LOCATION L0002410 VOLUME 476659.210 3752728.422 476.00
LOCATION L0002411 VOLUME 476659.259 3752719.832 476.00
LOCATION L0002412 VOLUME 476659.308 3752711.243 476.00
LOCATION L0002413 VOLUME 476659.356 3752702.653 476.00
LOCATION L0002414 VOLUME 476659.405 3752694.063 476.00
LOCATION L0002415 VOLUME 476659.453 3752685.473 476.00
LOCATION L0002416 VOLUME 476659.502 3752676.883 476.00
LOCATION L0002417 VOLUME 476659.551 3752668.293 476.00
LOCATION L0002418 VOLUME 476659.599 3752659.703 476.00
LOCATION L0002419 VOLUME 476659.648 3752651.114 475.82
LOCATION L0002420 VOLUME 476659.696 3752642.524 475.53
LOCATION L0002421 VOLUME 476659.745 3752633.934 475.25
LOCATION L0002422 VOLUME 476659.793 3752625.344 475.00
LOCATION L0002423 VOLUME 476659.842 3752616.754 475.00
LOCATION L0002424 VOLUME 476659.891 3752608.164 475.00
LOCATION L0002425 VOLUME 476659.939 3752599.574 475.00
LOCATION L0002426 VOLUME 476659.988 3752590.984 475.00
LOCATION L0002427 VOLUME 476660.036 3752582.395 475.00
LOCATION L0002428 VOLUME 476660.085 3752573.805 475.00
LOCATION L0002429 VOLUME 476660.133 3752565.215 474.96
LOCATION L0002430 VOLUME 476660.182 3752556.625 474.67
LOCATION L0002431 VOLUME 476660.231 3752548.035 474.38
LOCATION L0002432 VOLUME 476660.279 3752539.445 474.10
LOCATION L0002433 VOLUME 476660.328 3752530.855 474.00
LOCATION L0002434 VOLUME 476660.376 3752522.266 474.00
LOCATION L0002435 VOLUME 476660.425 3752513.676 474.00
LOCATION L0002436 VOLUME 476660.474 3752505.086 474.00
LOCATION L0002437 VOLUME 476660.522 3752496.496 474.00
LOCATION L0002438 VOLUME 476660.571 3752487.906 474.00
LOCATION L0002439 VOLUME 476660.619 3752479.316 474.00
LOCATION L0002440 VOLUME 476660.668 3752470.726 474.00
LOCATION L0002441 VOLUME 476660.716 3752462.137 474.00
LOCATION L0002442 VOLUME 476660.765 3752453.547 474.00
LOCATION L0002443 VOLUME 476660.814 3752444.957 473.95
LOCATION L0002444 VOLUME 476660.862 3752436.367 473.66
LOCATION L0002445 VOLUME 476660.911 3752427.777 473.37
LOCATION L0002446 VOLUME 476660.959 3752419.187 473.09
LOCATION L0002447 VOLUME 476661.008 3752410.597 473.00
LOCATION L0002448 VOLUME 476661.057 3752402.007 473.00
LOCATION L0002449 VOLUME 476661.105 3752393.418 473.00
LOCATION L0002450 VOLUME 476661.154 3752384.828 473.00
LOCATION L0002451 VOLUME 476661.202 3752376.238 473.00
LOCATION L0002452 VOLUME 476661.251 3752367.648 473.00
LOCATION L0002453 VOLUME 476661.299 3752359.058 473.00
LOCATION L0002454 VOLUME 476661.348 3752350.468 472.80
LOCATION L0002455 VOLUME 476661.397 3752341.878 472.51

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   LOCATION L0002456     VOLUME   476661.445 3752333.289 472.22
   LOCATION L0002457     VOLUME   476661.494 3752324.699 472.00
   LOCATION L0002458     VOLUME   476661.542 3752316.109 472.00
   LOCATION L0002459     VOLUME   476661.591 3752307.519 472.00
   LOCATION L0002460     VOLUME   476661.640 3752298.929 472.00
   LOCATION L0002461     VOLUME   476661.688 3752290.339 472.00
   LOCATION L0002462     VOLUME   476661.737 3752281.749 472.00
   LOCATION L0002463     VOLUME   476661.785 3752273.160 472.00
   LOCATION L0002464     VOLUME   476661.834 3752264.570 472.00
   LOCATION L0002465     VOLUME   476661.882 3752255.980 472.00
   LOCATION L0002466     VOLUME   476661.931 3752247.390 472.00
   LOCATION L0002467     VOLUME   476661.980 3752238.800 472.00
** End of LINE VOLUME Source ID = SLINE7
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0001891     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001892     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001893     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001894     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001895     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001896     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001897     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001898     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001899     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001900     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001901     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001902     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001903     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001904     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001905     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001906     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001907     0.000008394      3.49      4.00      3.25
   SRCPARAM L0001908     0.000008394      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001909     0.000008278      3.49      4.00      3.25
   SRCPARAM L0001910     0.000008278      3.49      4.00      3.25
   SRCPARAM L0001911     0.000008278      3.49      4.00      3.25
   SRCPARAM L0001912     0.000008278      3.49      4.00      3.25
   SRCPARAM L0001913     0.000008278      3.49      4.00      3.25
   SRCPARAM L0001914     0.000008278      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0001915     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001916     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001917     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001918     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001919     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001920     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001921     0.0000009739      3.49      4.00      3.25
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SRCPARAM L0001922     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001923     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001924     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001925     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001926     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001927     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001928     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001929     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001930     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001931     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001932     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001933     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001934     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001935     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001936     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001937     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001938     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001939     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001940     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001941     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001942     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001943     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001944     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001945     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001946     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001947     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001948     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001949     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001950     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001951     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001952     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001953     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001954     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001955     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001956     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001957     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001958     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001959     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001960     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001961     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001962     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001963     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001964     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001965     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001966     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001967     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001968     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001969     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001970     0.0000009739      3.49      4.00      3.25
SRCPARAM L0001971     0.0000009739      3.49      4.00      3.25
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   SRCPARAM L0001972     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001973     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001974     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001975     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001976     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001977     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001978     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001979     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001980     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001981     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001982     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001983     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001984     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001985     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001986     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001987     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001988     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001989     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001990     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001991     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001992     0.0000009739      3.49      4.00      3.25
   SRCPARAM L0001993     0.0000009739      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0001994     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0001995     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0001996     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0001997     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0001998     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0001999     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002000     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002001     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002002     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002003     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002004     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002005     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002006     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002007     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002008     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002009     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002010     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002011     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002012     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002013     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002014     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002015     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002016     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002017     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002018     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002019     0.0000003308      3.49      4.00      3.25
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   SRCPARAM L0002020     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002021     0.0000003308      3.49      4.00      3.25
   SRCPARAM L0002022     0.0000003308      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0002023     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002024     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002025     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002026     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002027     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002028     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002029     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002030     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002031     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002032     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002033     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002034     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002035     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002036     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002037     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002038     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002039     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002040     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002041     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002042     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002043     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002044     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002045     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002046     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002047     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002048     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002049     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002050     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002051     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002052     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002053     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002054     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002055     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002056     0.0000003652      3.49      4.00      3.25
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   SRCPARAM L0002058     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002059     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002060     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002061     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002062     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002063     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002064     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002065     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002066     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002067     0.0000003652      3.49      4.00      3.25
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SRCPARAM L0002068     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002069     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002070     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002071     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002072     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002073     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002074     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002075     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002076     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002077     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002078     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002079     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002080     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002081     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002082     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002083     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002084     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002085     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002086     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002087     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002088     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002089     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002090     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002091     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002092     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002093     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002094     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002095     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002096     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002097     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002098     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002099     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002100     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002101     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002102     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002103     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002104     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002105     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002106     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002107     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002108     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002109     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002110     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002111     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002112     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002113     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002114     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002115     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002116     0.0000003652      3.49      4.00      3.25
SRCPARAM L0002117     0.0000003652      3.49      4.00      3.25
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   SRCPARAM L0002118     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002119     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002120     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002121     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002122     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002123     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002124     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002125     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002126     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002127     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002128     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002129     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002130     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002131     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002132     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002133     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002134     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002135     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002136     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002137     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002138     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002139     0.0000003652      3.49      4.00      3.25
   SRCPARAM L0002140     0.0000003652      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002141     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002142     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002143     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002144     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002145     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002146     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002147     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002148     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002149     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002150     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002151     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002152     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002153     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002154     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002155     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002156     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002157     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002158     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002159     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002160     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002161     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002162     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002163     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002164     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002165     0.00000004049      3.49      4.00      3.25
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SRCPARAM L0002166     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002167     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002168     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002169     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002170     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002171     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002172     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002173     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002174     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002175     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002176     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002177     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002178     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002179     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002180     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002181     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002182     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002183     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002184     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002185     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002186     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002187     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002188     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002189     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002190     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002191     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002192     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002193     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002194     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002195     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002196     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002197     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002198     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002199     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002200     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002201     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002202     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002203     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002204     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002205     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002206     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002207     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002208     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002209     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002210     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002211     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002212     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002213     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002214     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002215     0.00000004049      3.49      4.00      3.25
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SRCPARAM L0002216     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002217     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002218     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002219     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002220     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002221     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002222     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002223     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002224     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002225     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002226     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002227     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002228     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002229     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002230     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002231     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002232     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002233     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002234     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002235     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002236     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002237     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002238     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002239     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002240     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002241     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002242     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002243     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002244     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002245     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002246     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002247     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002248     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002249     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002250     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002251     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002252     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002253     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002254     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002255     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002256     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002257     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002258     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002259     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002260     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002261     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002262     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002263     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002264     0.00000004049      3.49      4.00      3.25
SRCPARAM L0002265     0.00000004049      3.49      4.00      3.25
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   SRCPARAM L0002266     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002267     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002268     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002269     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002270     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002271     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002272     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002273     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002274     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002275     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002276     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002277     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002278     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002279     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002280     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002281     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002282     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002283     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002284     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002285     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002286     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002287     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002288     0.00000004049      3.49      4.00      3.25
   SRCPARAM L0002289     0.00000004049      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002290     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002291     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002292     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002293     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002294     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002295     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002296     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002297     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002298     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002299     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002300     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002301     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002302     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002303     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002304     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002305     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002306     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002307     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002308     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002309     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002310     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002311     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002312     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002313     0.00000004072      3.49      4.00      3.25
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   SRCPARAM L0002314     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002315     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002316     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002317     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002318     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002319     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002320     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002321     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002322     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002323     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002324     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002325     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002326     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002327     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002328     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002329     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002330     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002331     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002332     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002333     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002334     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002335     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002336     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002337     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002338     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002339     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002340     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002341     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002342     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002343     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002344     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002345     0.00000004072      3.49      4.00      3.25
   SRCPARAM L0002346     0.00000004072      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0002347     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002348     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002349     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002350     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002351     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002352     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002353     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002354     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002355     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002356     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002357     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002358     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002359     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002360     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002361     0.0000003648      3.49      4.00      3.25
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   SRCPARAM L0002362     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002363     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002364     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002365     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002366     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002367     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002368     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002369     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002370     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002371     0.0000003648      3.49      4.00      3.25
   SRCPARAM L0002372     0.0000003648      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0002373     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002374     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002375     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002376     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002377     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002378     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002379     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002380     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002381     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002382     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002383     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002384     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002385     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002386     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002387     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002388     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002389     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002390     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002391     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002392     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002393     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002394     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002395     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002396     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002397     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002398     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002399     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002400     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002401     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002402     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002403     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002404     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002405     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002406     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002407     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002408     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002409     0.0000004023      3.49      4.00      3.25
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SRCPARAM L0002410     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002411     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002412     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002413     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002414     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002415     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002416     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002417     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002418     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002419     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002420     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002421     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002422     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002423     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002424     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002425     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002426     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002427     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002428     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002429     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002430     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002431     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002432     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002433     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002434     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002435     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002436     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002437     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002438     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002439     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002440     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002441     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002442     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002443     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002444     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002445     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002446     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002447     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002448     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002449     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002450     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002451     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002452     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002453     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002454     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002455     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002456     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002457     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002458     0.0000004023      3.49      4.00      3.25
SRCPARAM L0002459     0.0000004023      3.49      4.00      3.25
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   SRCPARAM L0002460     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002461     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002462     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002463     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002464     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002465     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002466     0.0000004023      3.49      4.00      3.25
   SRCPARAM L0002467     0.0000004023      3.49      4.00      3.25
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "13661 HRA.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "13661 HRA.AD\AN00GALL.PLT" 31
   SUMMFILE "13661 HRA.sum"
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 ME W186    1385       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    1385       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\13661 HRA\13661
HRA.isc                          ***        11/12/20
 *** AERMET - VERSION  16216 ***   ***
                          ***        19:36:52

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

                                              ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

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

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

 **Model Uses URBAN Dispersion Algorithm for the SBL for   577 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
```

```
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

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

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  OTHER

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    577 Source(s);       1 Source Group(s); and       5
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    577 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


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

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

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

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 13661 HRA.err

**File for Summary of Results: 13661 HRA.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0001891	0	0.83940E-05	476129.1	3752854.7	477.0	3.49	4.00	3.25	YES	
L0001892	0	0.83940E-05	476137.7	3752854.7	477.0	3.49	4.00	3.25	YES	
L0001893	0	0.83940E-05	476146.3	3752854.7	477.1	3.49	4.00	3.25	YES	
L0001894	0	0.83940E-05	476154.9	3752854.7	477.3	3.49	4.00	3.25	YES	
L0001895	0	0.83940E-05	476163.5	3752854.7	477.5	3.49	4.00	3.25	YES	
L0001896	0	0.83940E-05	476172.1	3752854.7	477.6	3.49	4.00	3.25	YES	
L0001897	0	0.83940E-05	476180.6	3752854.7	477.6	3.49	4.00	3.25	YES	
L0001898	0	0.83940E-05	476189.2	3752854.7	477.6	3.49	4.00	3.25	YES	
L0001899	0	0.83940E-05	476197.8	3752854.7	477.6	3.49	4.00	3.25	YES	

L0001900	0	0.83940E-05	476206.4	3752854.7	477.6	3.49	4.00	3.25 YES
L0001901	0	0.83940E-05	476215.0	3752854.7	477.6	3.49	4.00	3.25 YES
L0001902	0	0.83940E-05	476223.6	3752854.7	477.6	3.49	4.00	3.25 YES
L0001903	0	0.83940E-05	476232.2	3752854.7	477.6	3.49	4.00	3.25 YES
L0001904	0	0.83940E-05	476240.8	3752854.7	477.4	3.49	4.00	3.25 YES
L0001905	0	0.83940E-05	476249.4	3752854.7	477.2	3.49	4.00	3.25 YES
L0001906	0	0.83940E-05	476258.0	3752854.7	477.0	3.49	4.00	3.25 YES
L0001907	0	0.83940E-05	476266.5	3752854.7	477.0	3.49	4.00	3.25 YES
L0001908	0	0.83940E-05	476275.1	3752854.7	477.0	3.49	4.00	3.25 YES
L0001909	0	0.82780E-05	476358.5	3752856.4	477.2	3.49	4.00	3.25 YES
L0001910	0	0.82780E-05	476367.1	3752856.3	477.4	3.49	4.00	3.25 YES
L0001911	0	0.82780E-05	476375.7	3752856.1	477.6	3.49	4.00	3.25 YES
L0001912	0	0.82780E-05	476384.2	3752856.0	477.5	3.49	4.00	3.25 YES
L0001913	0	0.82780E-05	476392.8	3752855.8	477.2	3.49	4.00	3.25 YES
L0001914	0	0.82780E-05	476401.4	3752855.7	476.9	3.49	4.00	3.25 YES
L0001915	0	0.97390E-06	476073.4	3752969.0	479.0	3.49	4.00	3.25 YES
L0001916	0	0.97390E-06	476072.3	3752960.5	479.0	3.49	4.00	3.25 YES
L0001917	0	0.97390E-06	476071.2	3752952.0	478.9	3.49	4.00	3.25 YES
L0001918	0	0.97390E-06	476070.1	3752943.4	478.6	3.49	4.00	3.25 YES
L0001919	0	0.97390E-06	476069.1	3752934.9	478.3	3.49	4.00	3.25 YES
L0001920	0	0.97390E-06	476068.9	3752926.4	478.0	3.49	4.00	3.25 YES
L0001921	0	0.97390E-06	476069.0	3752917.8	478.0	3.49	4.00	3.25 YES
L0001922	0	0.97390E-06	476069.2	3752909.2	478.0	3.49	4.00	3.25 YES
L0001923	0	0.97390E-06	476069.3	3752900.6	478.0	3.49	4.00	3.25 YES
L0001924	0	0.97390E-06	476069.4	3752892.0	478.0	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001925	0	0.97390E-06	476069.5	3752883.4	478.0	3.49	4.00	3.25	YES	
L0001926	0	0.97390E-06	476069.7	3752874.8	478.0	3.49	4.00	3.25	YES	
L0001927	0	0.97390E-06	476069.8	3752866.2	478.0	3.49	4.00	3.25	YES	
L0001928	0	0.97390E-06	476069.9	3752857.6	477.7	3.49	4.00	3.25	YES	
L0001929	0	0.97390E-06	476070.0	3752849.1	477.4	3.49	4.00	3.25	YES	
L0001930	0	0.97390E-06	476070.1	3752840.5	477.1	3.49	4.00	3.25	YES	
L0001931	0	0.97390E-06	476070.3	3752831.9	476.9	3.49	4.00	3.25	YES	
L0001932	0	0.97390E-06	476077.5	3752830.6	477.0	3.49	4.00	3.25	YES	
L0001933	0	0.97390E-06	476086.1	3752830.6	477.0	3.49	4.00	3.25	YES	
L0001934	0	0.97390E-06	476094.7	3752830.6	477.0	3.49	4.00	3.25	YES	
L0001935	0	0.97390E-06	476103.3	3752830.6	477.0	3.49	4.00	3.25	YES	
L0001936	0	0.97390E-06	476111.9	3752830.6	477.0	3.49	4.00	3.25	YES	
L0001937	0	0.97390E-06	476120.5	3752830.6	476.9	3.49	4.00	3.25	YES	
L0001938	0	0.97390E-06	476129.1	3752830.7	476.9	3.49	4.00	3.25	YES	
L0001939	0	0.97390E-06	476137.7	3752830.7	476.8	3.49	4.00	3.25	YES	

L0001940	0	0.97390E-06	476146.3	3752830.7	476.9	3.49	4.00	3.25 YES
L0001941	0	0.97390E-06	476154.9	3752830.7	476.9	3.49	4.00	3.25 YES
L0001942	0	0.97390E-06	476163.5	3752830.7	477.0	3.49	4.00	3.25 YES
L0001943	0	0.97390E-06	476172.0	3752830.8	477.0	3.49	4.00	3.25 YES
L0001944	0	0.97390E-06	476180.6	3752830.8	477.0	3.49	4.00	3.25 YES
L0001945	0	0.97390E-06	476189.2	3752830.8	477.0	3.49	4.00	3.25 YES
L0001946	0	0.97390E-06	476197.8	3752830.8	477.0	3.49	4.00	3.25 YES
L0001947	0	0.97390E-06	476206.4	3752830.8	477.0	3.49	4.00	3.25 YES
L0001948	0	0.97390E-06	476215.0	3752830.8	477.0	3.49	4.00	3.25 YES
L0001949	0	0.97390E-06	476223.6	3752830.9	477.0	3.49	4.00	3.25 YES
L0001950	0	0.97390E-06	476232.2	3752830.9	477.0	3.49	4.00	3.25 YES
L0001951	0	0.97390E-06	476240.8	3752830.9	477.0	3.49	4.00	3.25 YES
L0001952	0	0.97390E-06	476249.3	3752830.9	477.0	3.49	4.00	3.25 YES
L0001953	0	0.97390E-06	476257.9	3752830.9	477.0	3.49	4.00	3.25 YES
L0001954	0	0.97390E-06	476266.5	3752830.9	477.0	3.49	4.00	3.25 YES
L0001955	0	0.97390E-06	476275.1	3752831.0	477.0	3.49	4.00	3.25 YES
L0001956	0	0.97390E-06	476283.7	3752831.0	477.0	3.49	4.00	3.25 YES
L0001957	0	0.97390E-06	476292.3	3752831.0	477.0	3.49	4.00	3.25 YES
L0001958	0	0.97390E-06	476300.9	3752831.0	477.0	3.49	4.00	3.25 YES
L0001959	0	0.97390E-06	476309.5	3752831.0	477.0	3.49	4.00	3.25 YES
L0001960	0	0.97390E-06	476318.1	3752831.0	477.0	3.49	4.00	3.25 YES
L0001961	0	0.97390E-06	476326.7	3752831.1	477.0	3.49	4.00	3.25 YES
L0001962	0	0.97390E-06	476335.2	3752831.1	476.9	3.49	4.00	3.25 YES
L0001963	0	0.97390E-06	476343.8	3752831.1	476.9	3.49	4.00	3.25 YES
L0001964	0	0.97390E-06	476352.4	3752831.1	476.8	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0001965	0	0.97390E-06	476361.0	3752831.1	476.8	3.49	4.00	3.25	YES	
L0001966	0	0.97390E-06	476369.6	3752831.1	476.8	3.49	4.00	3.25	YES	
L0001967	0	0.97390E-06	476378.2	3752831.2	476.8	3.49	4.00	3.25	YES	
L0001968	0	0.97390E-06	476386.8	3752831.2	476.6	3.49	4.00	3.25	YES	
L0001969	0	0.97390E-06	476395.4	3752831.2	476.4	3.49	4.00	3.25	YES	
L0001970	0	0.97390E-06	476404.0	3752831.2	476.2	3.49	4.00	3.25	YES	
L0001971	0	0.97390E-06	476412.6	3752831.2	476.1	3.49	4.00	3.25	YES	
L0001972	0	0.97390E-06	476421.1	3752831.2	476.3	3.49	4.00	3.25	YES	
L0001973	0	0.97390E-06	476429.7	3752831.3	476.6	3.49	4.00	3.25	YES	
L0001974	0	0.97390E-06	476438.3	3752831.3	476.8	3.49	4.00	3.25	YES	
L0001975	0	0.97390E-06	476446.9	3752831.3	476.8	3.49	4.00	3.25	YES	
L0001976	0	0.97390E-06	476447.6	3752838.9	477.0	3.49	4.00	3.25	YES	
L0001977	0	0.97390E-06	476447.4	3752847.5	477.0	3.49	4.00	3.25	YES	
L0001978	0	0.97390E-06	476447.1	3752856.1	477.0	3.49	4.00	3.25	YES	
L0001979	0	0.97390E-06	476446.8	3752864.7	477.0	3.49	4.00	3.25	YES	

L0001980	0	0.97390E-06	476446.5	3752873.2	477.2	3.49	4.00	3.25 YES
L0001981	0	0.97390E-06	476446.3	3752881.8	477.5	3.49	4.00	3.25 YES
L0001982	0	0.97390E-06	476446.0	3752890.4	477.8	3.49	4.00	3.25 YES
L0001983	0	0.97390E-06	476445.7	3752899.0	478.0	3.49	4.00	3.25 YES
L0001984	0	0.97390E-06	476445.4	3752907.6	478.0	3.49	4.00	3.25 YES
L0001985	0	0.97390E-06	476445.2	3752916.2	478.0	3.49	4.00	3.25 YES
L0001986	0	0.97390E-06	476444.9	3752924.8	478.0	3.49	4.00	3.25 YES
L0001987	0	0.97390E-06	476444.6	3752933.3	478.0	3.49	4.00	3.25 YES
L0001988	0	0.97390E-06	476444.3	3752941.9	478.0	3.49	4.00	3.25 YES
L0001989	0	0.97390E-06	476444.1	3752950.5	478.0	3.49	4.00	3.25 YES
L0001990	0	0.97390E-06	476443.8	3752959.1	478.0	3.49	4.00	3.25 YES
L0001991	0	0.97390E-06	476443.5	3752967.7	478.0	3.49	4.00	3.25 YES
L0001992	0	0.97390E-06	476443.2	3752976.3	478.0	3.49	4.00	3.25 YES
L0001993	0	0.97390E-06	476443.0	3752984.9	478.0	3.49	4.00	3.25 YES
L0001994	0	0.33080E-06	476359.0	3752830.2	476.8	3.49	4.00	3.25 YES
L0001995	0	0.33080E-06	476367.5	3752830.2	476.8	3.49	4.00	3.25 YES
L0001996	0	0.33080E-06	476376.1	3752830.3	476.8	3.49	4.00	3.25 YES
L0001997	0	0.33080E-06	476384.7	3752830.4	476.7	3.49	4.00	3.25 YES
L0001998	0	0.33080E-06	476393.3	3752830.5	476.4	3.49	4.00	3.25 YES
L0001999	0	0.33080E-06	476401.9	3752830.5	476.2	3.49	4.00	3.25 YES
L0002000	0	0.33080E-06	476410.5	3752830.6	476.0	3.49	4.00	3.25 YES
L0002001	0	0.33080E-06	476419.1	3752830.7	476.2	3.49	4.00	3.25 YES
L0002002	0	0.33080E-06	476427.7	3752830.7	476.5	3.49	4.00	3.25 YES
L0002003	0	0.33080E-06	476436.3	3752830.8	476.7	3.49	4.00	3.25 YES
L0002004	0	0.33080E-06	476444.9	3752830.9	476.8	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002005	0	0.33080E-06	476447.7	3752836.5	477.0	3.49	4.00	3.25	YES	
L0002006	0	0.33080E-06	476447.4	3752845.0	477.0	3.49	4.00	3.25	YES	
L0002007	0	0.33080E-06	476447.2	3752853.6	477.0	3.49	4.00	3.25	YES	
L0002008	0	0.33080E-06	476446.9	3752862.2	477.0	3.49	4.00	3.25	YES	
L0002009	0	0.33080E-06	476446.6	3752870.8	477.1	3.49	4.00	3.25	YES	
L0002010	0	0.33080E-06	476446.4	3752879.4	477.4	3.49	4.00	3.25	YES	
L0002011	0	0.33080E-06	476446.1	3752888.0	477.7	3.49	4.00	3.25	YES	
L0002012	0	0.33080E-06	476445.8	3752896.6	478.0	3.49	4.00	3.25	YES	
L0002013	0	0.33080E-06	476445.5	3752905.1	478.0	3.49	4.00	3.25	YES	
L0002014	0	0.33080E-06	476445.3	3752913.7	478.0	3.49	4.00	3.25	YES	
L0002015	0	0.33080E-06	476445.0	3752922.3	478.0	3.49	4.00	3.25	YES	
L0002016	0	0.33080E-06	476444.7	3752930.9	478.0	3.49	4.00	3.25	YES	
L0002017	0	0.33080E-06	476444.5	3752939.5	478.0	3.49	4.00	3.25	YES	
L0002018	0	0.33080E-06	476444.2	3752948.1	478.0	3.49	4.00	3.25	YES	
L0002019	0	0.33080E-06	476443.9	3752956.7	478.0	3.49	4.00	3.25	YES	

L0002020	0	0.33080E-06	476443.7	3752965.2	478.0	3.49	4.00	3.25 YES
L0002021	0	0.33080E-06	476443.4	3752973.8	478.0	3.49	4.00	3.25 YES
L0002022	0	0.33080E-06	476443.1	3752982.4	478.0	3.49	4.00	3.25 YES
L0002023	0	0.36520E-06	475064.0	3752981.5	476.8	3.49	4.00	3.25 YES
L0002024	0	0.36520E-06	475072.5	3752981.7	476.8	3.49	4.00	3.25 YES
L0002025	0	0.36520E-06	475081.1	3752981.9	476.8	3.49	4.00	3.25 YES
L0002026	0	0.36520E-06	475089.7	3752982.1	476.9	3.49	4.00	3.25 YES
L0002027	0	0.36520E-06	475098.3	3752982.3	476.9	3.49	4.00	3.25 YES
L0002028	0	0.36520E-06	475106.9	3752982.5	476.9	3.49	4.00	3.25 YES
L0002029	0	0.36520E-06	475115.5	3752982.7	477.0	3.49	4.00	3.25 YES
L0002030	0	0.36520E-06	475124.1	3752982.9	477.0	3.49	4.00	3.25 YES
L0002031	0	0.36520E-06	475132.7	3752983.1	477.0	3.49	4.00	3.25 YES
L0002032	0	0.36520E-06	475141.2	3752983.3	477.0	3.49	4.00	3.25 YES
L0002033	0	0.36520E-06	475149.8	3752983.6	477.0	3.49	4.00	3.25 YES
L0002034	0	0.36520E-06	475158.4	3752983.8	477.0	3.49	4.00	3.25 YES
L0002035	0	0.36520E-06	475167.0	3752984.0	476.9	3.49	4.00	3.25 YES
L0002036	0	0.36520E-06	475175.6	3752984.2	476.9	3.49	4.00	3.25 YES
L0002037	0	0.36520E-06	475184.2	3752984.4	476.9	3.49	4.00	3.25 YES
L0002038	0	0.36520E-06	475192.8	3752984.6	477.0	3.49	4.00	3.25 YES
L0002039	0	0.36520E-06	475201.4	3752984.8	477.0	3.49	4.00	3.25 YES
L0002040	0	0.36520E-06	475209.9	3752985.0	477.0	3.49	4.00	3.25 YES
L0002041	0	0.36520E-06	475218.5	3752985.2	477.0	3.49	4.00	3.25 YES
L0002042	0	0.36520E-06	475227.1	3752985.4	477.0	3.49	4.00	3.25 YES
L0002043	0	0.36520E-06	475235.7	3752985.6	477.0	3.49	4.00	3.25 YES
L0002044	0	0.36520E-06	475244.3	3752985.8	477.0	3.49	4.00	3.25 YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002045	0	0.36520E-06	475252.9	3752986.0	477.0	3.49	4.00	3.25	YES	
L0002046	0	0.36520E-06	475261.5	3752986.2	477.0	3.49	4.00	3.25	YES	
L0002047	0	0.36520E-06	475270.1	3752986.4	477.0	3.49	4.00	3.25	YES	
L0002048	0	0.36520E-06	475278.6	3752986.7	477.0	3.49	4.00	3.25	YES	
L0002049	0	0.36520E-06	475287.2	3752986.9	477.0	3.49	4.00	3.25	YES	
L0002050	0	0.36520E-06	475295.8	3752987.1	477.0	3.49	4.00	3.25	YES	
L0002051	0	0.36520E-06	475304.4	3752987.3	477.0	3.49	4.00	3.25	YES	
L0002052	0	0.36520E-06	475313.0	3752987.5	477.0	3.49	4.00	3.25	YES	
L0002053	0	0.36520E-06	475321.6	3752987.7	477.0	3.49	4.00	3.25	YES	
L0002054	0	0.36520E-06	475330.2	3752987.9	477.0	3.49	4.00	3.25	YES	
L0002055	0	0.36520E-06	475338.8	3752988.1	477.0	3.49	4.00	3.25	YES	
L0002056	0	0.36520E-06	475347.3	3752988.3	477.0	3.49	4.00	3.25	YES	
L0002057	0	0.36520E-06	475355.9	3752988.5	477.0	3.49	4.00	3.25	YES	
L0002058	0	0.36520E-06	475364.5	3752988.7	477.0	3.49	4.00	3.25	YES	
L0002059	0	0.36520E-06	475373.1	3752988.9	477.0	3.49	4.00	3.25	YES	

L0002060	0	0.36520E-06	475381.7	3752989.1	477.1	3.49	4.00	3.25 YES
L0002061	0	0.36520E-06	475390.3	3752989.3	477.1	3.49	4.00	3.25 YES
L0002062	0	0.36520E-06	475398.9	3752989.5	477.1	3.49	4.00	3.25 YES
L0002063	0	0.36520E-06	475407.5	3752989.8	477.1	3.49	4.00	3.25 YES
L0002064	0	0.36520E-06	475416.0	3752990.0	477.1	3.49	4.00	3.25 YES
L0002065	0	0.36520E-06	475424.6	3752990.2	477.1	3.49	4.00	3.25 YES
L0002066	0	0.36520E-06	475433.2	3752990.4	477.1	3.49	4.00	3.25 YES
L0002067	0	0.36520E-06	475441.8	3752990.6	477.0	3.49	4.00	3.25 YES
L0002068	0	0.36520E-06	475450.4	3752990.8	477.0	3.49	4.00	3.25 YES
L0002069	0	0.36520E-06	475459.0	3752991.0	477.0	3.49	4.00	3.25 YES
L0002070	0	0.36520E-06	475467.6	3752991.2	477.0	3.49	4.00	3.25 YES
L0002071	0	0.36520E-06	475476.2	3752991.4	477.0	3.49	4.00	3.25 YES
L0002072	0	0.36520E-06	475484.7	3752991.6	477.0	3.49	4.00	3.25 YES
L0002073	0	0.36520E-06	475493.3	3752991.8	477.1	3.49	4.00	3.25 YES
L0002074	0	0.36520E-06	475501.9	3752992.0	477.1	3.49	4.00	3.25 YES
L0002075	0	0.36520E-06	475510.5	3752992.2	477.2	3.49	4.00	3.25 YES
L0002076	0	0.36520E-06	475519.1	3752992.4	477.2	3.49	4.00	3.25 YES
L0002077	0	0.36520E-06	475527.7	3752992.7	477.2	3.49	4.00	3.25 YES
L0002078	0	0.36520E-06	475536.3	3752992.9	477.2	3.49	4.00	3.25 YES
L0002079	0	0.36520E-06	475544.9	3752993.1	477.2	3.49	4.00	3.25 YES
L0002080	0	0.36520E-06	475553.4	3752993.3	477.1	3.49	4.00	3.25 YES
L0002081	0	0.36520E-06	475562.0	3752993.5	477.1	3.49	4.00	3.25 YES
L0002082	0	0.36520E-06	475570.6	3752993.7	477.0	3.49	4.00	3.25 YES
L0002083	0	0.36520E-06	475579.2	3752993.9	477.0	3.49	4.00	3.25 YES
L0002084	0	0.36520E-06	475587.8	3752994.1	477.0	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002085	0	0.36520E-06	475596.4	3752994.3	477.0	3.49	4.00	3.25	YES	
L0002086	0	0.36520E-06	475605.0	3752994.5	477.1	3.49	4.00	3.25	YES	
L0002087	0	0.36520E-06	475613.6	3752994.7	477.1	3.49	4.00	3.25	YES	
L0002088	0	0.36520E-06	475622.1	3752994.9	477.2	3.49	4.00	3.25	YES	
L0002089	0	0.36520E-06	475630.7	3752995.1	477.3	3.49	4.00	3.25	YES	
L0002090	0	0.36520E-06	475639.3	3752995.3	477.5	3.49	4.00	3.25	YES	
L0002091	0	0.36520E-06	475647.9	3752995.5	477.7	3.49	4.00	3.25	YES	
L0002092	0	0.36520E-06	475656.5	3752995.8	477.9	3.49	4.00	3.25	YES	
L0002093	0	0.36520E-06	475665.1	3752996.0	478.0	3.49	4.00	3.25	YES	
L0002094	0	0.36520E-06	475673.7	3752996.2	478.0	3.49	4.00	3.25	YES	
L0002095	0	0.36520E-06	475682.3	3752996.4	478.0	3.49	4.00	3.25	YES	
L0002096	0	0.36520E-06	475690.8	3752996.6	478.0	3.49	4.00	3.25	YES	
L0002097	0	0.36520E-06	475699.4	3752996.8	478.0	3.49	4.00	3.25	YES	
L0002098	0	0.36520E-06	475708.0	3752997.0	478.0	3.49	4.00	3.25	YES	
L0002099	0	0.36520E-06	475716.6	3752997.2	478.0	3.49	4.00	3.25	YES	

L0002100	0	0.36520E-06	475725.2	3752997.4	478.0	3.49	4.00	3.25 YES
L0002101	0	0.36520E-06	475733.8	3752997.6	478.0	3.49	4.00	3.25 YES
L0002102	0	0.36520E-06	475742.4	3752997.8	478.0	3.49	4.00	3.25 YES
L0002103	0	0.36520E-06	475751.0	3752998.0	478.0	3.49	4.00	3.25 YES
L0002104	0	0.36520E-06	475759.5	3752998.2	478.0	3.49	4.00	3.25 YES
L0002105	0	0.36520E-06	475768.1	3752998.4	478.0	3.49	4.00	3.25 YES
L0002106	0	0.36520E-06	475776.7	3752998.6	478.0	3.49	4.00	3.25 YES
L0002107	0	0.36520E-06	475785.3	3752998.9	478.0	3.49	4.00	3.25 YES
L0002108	0	0.36520E-06	475793.9	3752999.1	478.0	3.49	4.00	3.25 YES
L0002109	0	0.36520E-06	475802.5	3752999.3	478.0	3.49	4.00	3.25 YES
L0002110	0	0.36520E-06	475811.1	3752999.5	478.0	3.49	4.00	3.25 YES
L0002111	0	0.36520E-06	475819.7	3752999.7	478.0	3.49	4.00	3.25 YES
L0002112	0	0.36520E-06	475828.2	3752999.9	478.0	3.49	4.00	3.25 YES
L0002113	0	0.36520E-06	475836.8	3753000.1	478.0	3.49	4.00	3.25 YES
L0002114	0	0.36520E-06	475845.4	3753000.3	478.0	3.49	4.00	3.25 YES
L0002115	0	0.36520E-06	475854.0	3753000.3	478.0	3.49	4.00	3.25 YES
L0002116	0	0.36520E-06	475862.6	3753000.3	478.0	3.49	4.00	3.25 YES
L0002117	0	0.36520E-06	475871.2	3753000.3	478.0	3.49	4.00	3.25 YES
L0002118	0	0.36520E-06	475879.8	3753000.3	478.0	3.49	4.00	3.25 YES
L0002119	0	0.36520E-06	475888.4	3753000.3	478.0	3.49	4.00	3.25 YES
L0002120	0	0.36520E-06	475897.0	3753000.3	478.0	3.49	4.00	3.25 YES
L0002121	0	0.36520E-06	475905.5	3753000.3	478.1	3.49	4.00	3.25 YES
L0002122	0	0.36520E-06	475914.1	3753000.3	478.2	3.49	4.00	3.25 YES
L0002123	0	0.36520E-06	475922.7	3753000.3	478.4	3.49	4.00	3.25 YES
L0002124	0	0.36520E-06	475931.3	3753000.3	478.5	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002125	0	0.36520E-06	475939.9	3753000.3	478.6	3.49	4.00	3.25	YES	
L0002126	0	0.36520E-06	475948.5	3753000.3	478.8	3.49	4.00	3.25	YES	
L0002127	0	0.36520E-06	475957.1	3753000.3	478.9	3.49	4.00	3.25	YES	
L0002128	0	0.36520E-06	475965.7	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002129	0	0.36520E-06	475974.3	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002130	0	0.36520E-06	475982.9	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002131	0	0.36520E-06	475991.4	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002132	0	0.36520E-06	476000.0	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002133	0	0.36520E-06	476008.6	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002134	0	0.36520E-06	476017.2	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002135	0	0.36520E-06	476025.8	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002136	0	0.36520E-06	476034.4	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002137	0	0.36520E-06	476043.0	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002138	0	0.36520E-06	476051.6	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002139	0	0.36520E-06	476060.2	3753000.3	479.0	3.49	4.00	3.25	YES	

L0002140	0	0.36520E-06	476068.8	3753000.3	479.0	3.49	4.00	3.25 YES
L0002141	0	0.40490E-07	475064.0	3752981.5	476.8	3.49	4.00	3.25 YES
L0002142	0	0.40490E-07	475072.5	3752981.7	476.8	3.49	4.00	3.25 YES
L0002143	0	0.40490E-07	475081.1	3752981.9	476.8	3.49	4.00	3.25 YES
L0002144	0	0.40490E-07	475089.7	3752982.1	476.9	3.49	4.00	3.25 YES
L0002145	0	0.40490E-07	475098.3	3752982.3	476.9	3.49	4.00	3.25 YES
L0002146	0	0.40490E-07	475106.9	3752982.5	476.9	3.49	4.00	3.25 YES
L0002147	0	0.40490E-07	475115.5	3752982.7	477.0	3.49	4.00	3.25 YES
L0002148	0	0.40490E-07	475124.1	3752982.9	477.0	3.49	4.00	3.25 YES
L0002149	0	0.40490E-07	475132.7	3752983.1	477.0	3.49	4.00	3.25 YES
L0002150	0	0.40490E-07	475141.2	3752983.3	477.0	3.49	4.00	3.25 YES
L0002151	0	0.40490E-07	475149.8	3752983.6	477.0	3.49	4.00	3.25 YES
L0002152	0	0.40490E-07	475158.4	3752983.8	477.0	3.49	4.00	3.25 YES
L0002153	0	0.40490E-07	475167.0	3752984.0	476.9	3.49	4.00	3.25 YES
L0002154	0	0.40490E-07	475175.6	3752984.2	476.9	3.49	4.00	3.25 YES
L0002155	0	0.40490E-07	475184.2	3752984.4	476.9	3.49	4.00	3.25 YES
L0002156	0	0.40490E-07	475192.8	3752984.6	477.0	3.49	4.00	3.25 YES
L0002157	0	0.40490E-07	475201.4	3752984.8	477.0	3.49	4.00	3.25 YES
L0002158	0	0.40490E-07	475209.9	3752985.0	477.0	3.49	4.00	3.25 YES
L0002159	0	0.40490E-07	475218.5	3752985.2	477.0	3.49	4.00	3.25 YES
L0002160	0	0.40490E-07	475227.1	3752985.4	477.0	3.49	4.00	3.25 YES
L0002161	0	0.40490E-07	475235.7	3752985.6	477.0	3.49	4.00	3.25 YES
L0002162	0	0.40490E-07	475244.3	3752985.8	477.0	3.49	4.00	3.25 YES
L0002163	0	0.40490E-07	475252.9	3752986.0	477.0	3.49	4.00	3.25 YES
L0002164	0	0.40490E-07	475261.5	3752986.2	477.0	3.49	4.00	3.25 YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002165	0	0.40490E-07	475270.1	3752986.4	477.0	3.49	4.00	3.25	YES	
L0002166	0	0.40490E-07	475278.6	3752986.7	477.0	3.49	4.00	3.25	YES	
L0002167	0	0.40490E-07	475287.2	3752986.9	477.0	3.49	4.00	3.25	YES	
L0002168	0	0.40490E-07	475295.8	3752987.1	477.0	3.49	4.00	3.25	YES	
L0002169	0	0.40490E-07	475304.4	3752987.3	477.0	3.49	4.00	3.25	YES	
L0002170	0	0.40490E-07	475313.0	3752987.5	477.0	3.49	4.00	3.25	YES	
L0002171	0	0.40490E-07	475321.6	3752987.7	477.0	3.49	4.00	3.25	YES	
L0002172	0	0.40490E-07	475330.2	3752987.9	477.0	3.49	4.00	3.25	YES	
L0002173	0	0.40490E-07	475338.8	3752988.1	477.0	3.49	4.00	3.25	YES	
L0002174	0	0.40490E-07	475347.3	3752988.3	477.0	3.49	4.00	3.25	YES	
L0002175	0	0.40490E-07	475355.9	3752988.5	477.0	3.49	4.00	3.25	YES	
L0002176	0	0.40490E-07	475364.5	3752988.7	477.0	3.49	4.00	3.25	YES	
L0002177	0	0.40490E-07	475373.1	3752988.9	477.0	3.49	4.00	3.25	YES	
L0002178	0	0.40490E-07	475381.7	3752989.1	477.1	3.49	4.00	3.25	YES	
L0002179	0	0.40490E-07	475390.3	3752989.3	477.1	3.49	4.00	3.25	YES	

L0002180	0	0.40490E-07	475398.9	3752989.5	477.1	3.49	4.00	3.25 YES
L0002181	0	0.40490E-07	475407.5	3752989.8	477.1	3.49	4.00	3.25 YES
L0002182	0	0.40490E-07	475416.0	3752990.0	477.1	3.49	4.00	3.25 YES
L0002183	0	0.40490E-07	475424.6	3752990.2	477.1	3.49	4.00	3.25 YES
L0002184	0	0.40490E-07	475433.2	3752990.4	477.1	3.49	4.00	3.25 YES
L0002185	0	0.40490E-07	475441.8	3752990.6	477.0	3.49	4.00	3.25 YES
L0002186	0	0.40490E-07	475450.4	3752990.8	477.0	3.49	4.00	3.25 YES
L0002187	0	0.40490E-07	475459.0	3752991.0	477.0	3.49	4.00	3.25 YES
L0002188	0	0.40490E-07	475467.6	3752991.2	477.0	3.49	4.00	3.25 YES
L0002189	0	0.40490E-07	475476.2	3752991.4	477.0	3.49	4.00	3.25 YES
L0002190	0	0.40490E-07	475484.7	3752991.6	477.0	3.49	4.00	3.25 YES
L0002191	0	0.40490E-07	475493.3	3752991.8	477.1	3.49	4.00	3.25 YES
L0002192	0	0.40490E-07	475501.9	3752992.0	477.1	3.49	4.00	3.25 YES
L0002193	0	0.40490E-07	475510.5	3752992.2	477.2	3.49	4.00	3.25 YES
L0002194	0	0.40490E-07	475519.1	3752992.4	477.2	3.49	4.00	3.25 YES
L0002195	0	0.40490E-07	475527.7	3752992.7	477.2	3.49	4.00	3.25 YES
L0002196	0	0.40490E-07	475536.3	3752992.9	477.2	3.49	4.00	3.25 YES
L0002197	0	0.40490E-07	475544.9	3752993.1	477.2	3.49	4.00	3.25 YES
L0002198	0	0.40490E-07	475553.4	3752993.3	477.1	3.49	4.00	3.25 YES
L0002199	0	0.40490E-07	475562.0	3752993.5	477.1	3.49	4.00	3.25 YES
L0002200	0	0.40490E-07	475570.6	3752993.7	477.0	3.49	4.00	3.25 YES
L0002201	0	0.40490E-07	475579.2	3752993.9	477.0	3.49	4.00	3.25 YES
L0002202	0	0.40490E-07	475587.8	3752994.1	477.0	3.49	4.00	3.25 YES
L0002203	0	0.40490E-07	475596.4	3752994.3	477.0	3.49	4.00	3.25 YES
L0002204	0	0.40490E-07	475605.0	3752994.5	477.1	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002205	0	0.40490E-07	475613.6	3752994.7	477.1	3.49	4.00	3.25	YES	
L0002206	0	0.40490E-07	475622.1	3752994.9	477.2	3.49	4.00	3.25	YES	
L0002207	0	0.40490E-07	475630.7	3752995.1	477.3	3.49	4.00	3.25	YES	
L0002208	0	0.40490E-07	475639.3	3752995.3	477.5	3.49	4.00	3.25	YES	
L0002209	0	0.40490E-07	475647.9	3752995.5	477.7	3.49	4.00	3.25	YES	
L0002210	0	0.40490E-07	475656.5	3752995.8	477.9	3.49	4.00	3.25	YES	
L0002211	0	0.40490E-07	475665.1	3752996.0	478.0	3.49	4.00	3.25	YES	
L0002212	0	0.40490E-07	475673.7	3752996.2	478.0	3.49	4.00	3.25	YES	
L0002213	0	0.40490E-07	475682.3	3752996.4	478.0	3.49	4.00	3.25	YES	
L0002214	0	0.40490E-07	475690.8	3752996.6	478.0	3.49	4.00	3.25	YES	
L0002215	0	0.40490E-07	475699.4	3752996.8	478.0	3.49	4.00	3.25	YES	
L0002216	0	0.40490E-07	475708.0	3752997.0	478.0	3.49	4.00	3.25	YES	
L0002217	0	0.40490E-07	475716.6	3752997.2	478.0	3.49	4.00	3.25	YES	
L0002218	0	0.40490E-07	475725.2	3752997.4	478.0	3.49	4.00	3.25	YES	
L0002219	0	0.40490E-07	475733.8	3752997.6	478.0	3.49	4.00	3.25	YES	

L0002220	0	0.40490E-07	475742.4	3752997.8	478.0	3.49	4.00	3.25 YES
L0002221	0	0.40490E-07	475751.0	3752998.0	478.0	3.49	4.00	3.25 YES
L0002222	0	0.40490E-07	475759.5	3752998.2	478.0	3.49	4.00	3.25 YES
L0002223	0	0.40490E-07	475768.1	3752998.4	478.0	3.49	4.00	3.25 YES
L0002224	0	0.40490E-07	475776.7	3752998.6	478.0	3.49	4.00	3.25 YES
L0002225	0	0.40490E-07	475785.3	3752998.9	478.0	3.49	4.00	3.25 YES
L0002226	0	0.40490E-07	475793.9	3752999.1	478.0	3.49	4.00	3.25 YES
L0002227	0	0.40490E-07	475802.5	3752999.3	478.0	3.49	4.00	3.25 YES
L0002228	0	0.40490E-07	475811.1	3752999.5	478.0	3.49	4.00	3.25 YES
L0002229	0	0.40490E-07	475819.7	3752999.7	478.0	3.49	4.00	3.25 YES
L0002230	0	0.40490E-07	475828.2	3752999.9	478.0	3.49	4.00	3.25 YES
L0002231	0	0.40490E-07	475836.8	3753000.1	478.0	3.49	4.00	3.25 YES
L0002232	0	0.40490E-07	475845.4	3753000.3	478.0	3.49	4.00	3.25 YES
L0002233	0	0.40490E-07	475854.0	3753000.3	478.0	3.49	4.00	3.25 YES
L0002234	0	0.40490E-07	475862.6	3753000.3	478.0	3.49	4.00	3.25 YES
L0002235	0	0.40490E-07	475871.2	3753000.3	478.0	3.49	4.00	3.25 YES
L0002236	0	0.40490E-07	475879.8	3753000.3	478.0	3.49	4.00	3.25 YES
L0002237	0	0.40490E-07	475888.4	3753000.3	478.0	3.49	4.00	3.25 YES
L0002238	0	0.40490E-07	475897.0	3753000.3	478.0	3.49	4.00	3.25 YES
L0002239	0	0.40490E-07	475905.5	3753000.3	478.1	3.49	4.00	3.25 YES
L0002240	0	0.40490E-07	475914.1	3753000.3	478.2	3.49	4.00	3.25 YES
L0002241	0	0.40490E-07	475922.7	3753000.3	478.4	3.49	4.00	3.25 YES
L0002242	0	0.40490E-07	475931.3	3753000.3	478.5	3.49	4.00	3.25 YES
L0002243	0	0.40490E-07	475939.9	3753000.3	478.6	3.49	4.00	3.25 YES
L0002244	0	0.40490E-07	475948.5	3753000.3	478.8	3.49	4.00	3.25 YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002245	0	0.40490E-07	475957.1	3753000.3	478.9	3.49	4.00	3.25	YES	
L0002246	0	0.40490E-07	475965.7	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002247	0	0.40490E-07	475974.3	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002248	0	0.40490E-07	475982.9	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002249	0	0.40490E-07	475991.4	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002250	0	0.40490E-07	476000.0	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002251	0	0.40490E-07	476008.6	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002252	0	0.40490E-07	476017.2	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002253	0	0.40490E-07	476025.8	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002254	0	0.40490E-07	476034.4	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002255	0	0.40490E-07	476043.0	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002256	0	0.40490E-07	476051.6	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002257	0	0.40490E-07	476060.2	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002258	0	0.40490E-07	476068.8	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002259	0	0.40490E-07	476077.3	3753000.4	479.0	3.49	4.00	3.25	YES	

L0002260	0	0.40490E-07	476085.9	3753000.4	479.0	3.49	4.00	3.25 YES
L0002261	0	0.40490E-07	476094.5	3753000.4	479.0	3.49	4.00	3.25 YES
L0002262	0	0.40490E-07	476103.1	3753000.4	479.0	3.49	4.00	3.25 YES
L0002263	0	0.40490E-07	476111.7	3753000.5	479.0	3.49	4.00	3.25 YES
L0002264	0	0.40490E-07	476120.3	3753000.5	479.0	3.49	4.00	3.25 YES
L0002265	0	0.40490E-07	476128.9	3753000.5	479.0	3.49	4.00	3.25 YES
L0002266	0	0.40490E-07	476137.5	3753000.6	479.0	3.49	4.00	3.25 YES
L0002267	0	0.40490E-07	476146.1	3753000.6	478.9	3.49	4.00	3.25 YES
L0002268	0	0.40490E-07	476154.7	3753000.6	478.7	3.49	4.00	3.25 YES
L0002269	0	0.40490E-07	476163.2	3753000.7	478.6	3.49	4.00	3.25 YES
L0002270	0	0.40490E-07	476171.8	3753000.7	478.5	3.49	4.00	3.25 YES
L0002271	0	0.40490E-07	476180.4	3753000.7	478.7	3.49	4.00	3.25 YES
L0002272	0	0.40490E-07	476189.0	3753000.7	478.8	3.49	4.00	3.25 YES
L0002273	0	0.40490E-07	476197.6	3753000.8	479.0	3.49	4.00	3.25 YES
L0002274	0	0.40490E-07	476206.2	3753000.8	479.0	3.49	4.00	3.25 YES
L0002275	0	0.40490E-07	476214.8	3753000.8	479.0	3.49	4.00	3.25 YES
L0002276	0	0.40490E-07	476223.4	3753000.9	479.0	3.49	4.00	3.25 YES
L0002277	0	0.40490E-07	476232.0	3753000.9	479.0	3.49	4.00	3.25 YES
L0002278	0	0.40490E-07	476240.6	3753000.9	479.0	3.49	4.00	3.25 YES
L0002279	0	0.40490E-07	476249.1	3753000.9	479.0	3.49	4.00	3.25 YES
L0002280	0	0.40490E-07	476257.7	3753001.0	479.0	3.49	4.00	3.25 YES
L0002281	0	0.40490E-07	476266.3	3753001.0	478.9	3.49	4.00	3.25 YES
L0002282	0	0.40490E-07	476274.9	3753001.0	478.7	3.49	4.00	3.25 YES
L0002283	0	0.40490E-07	476283.5	3753001.1	478.6	3.49	4.00	3.25 YES
L0002284	0	0.40490E-07	476292.1	3753001.1	478.4	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002291	0	0.40720E-07	476086.7	3753000.3	479.0	3.49	4.00	3.25	YES	
L0002292	0	0.40720E-07	476095.2	3753000.4	479.0	3.49	4.00	3.25	YES	
L0002293	0	0.40720E-07	476103.8	3753000.5	479.0	3.49	4.00	3.25	YES	
L0002294	0	0.40720E-07	476112.4	3753000.5	479.0	3.49	4.00	3.25	YES	
L0002295	0	0.40720E-07	476121.0	3753000.6	479.0	3.49	4.00	3.25	YES	
L0002296	0	0.40720E-07	476129.6	3753000.6	479.0	3.49	4.00	3.25	YES	
L0002297	0	0.40720E-07	476138.2	3753000.7	479.0	3.49	4.00	3.25	YES	
L0002298	0	0.40720E-07	476146.8	3753000.7	478.9	3.49	4.00	3.25	YES	
L0002299	0	0.40720E-07	476155.4	3753000.8	478.7	3.49	4.00	3.25	YES	

L0002300	0	0.40720E-07	476164.0	3753000.8	478.6	3.49	4.00	3.25 YES
L0002301	0	0.40720E-07	476172.5	3753000.9	478.5	3.49	4.00	3.25 YES
L0002302	0	0.40720E-07	476181.1	3753000.9	478.7	3.49	4.00	3.25 YES
L0002303	0	0.40720E-07	476189.7	3753001.0	478.8	3.49	4.00	3.25 YES
L0002304	0	0.40720E-07	476198.3	3753001.0	479.0	3.49	4.00	3.25 YES
L0002305	0	0.40720E-07	476206.9	3753001.1	479.0	3.49	4.00	3.25 YES
L0002306	0	0.40720E-07	476215.5	3753001.1	479.0	3.49	4.00	3.25 YES
L0002307	0	0.40720E-07	476224.1	3753001.2	479.0	3.49	4.00	3.25 YES
L0002308	0	0.40720E-07	476232.7	3753001.2	479.0	3.49	4.00	3.25 YES
L0002309	0	0.40720E-07	476241.3	3753001.3	479.0	3.49	4.00	3.25 YES
L0002310	0	0.40720E-07	476249.9	3753001.3	479.0	3.49	4.00	3.25 YES
L0002311	0	0.40720E-07	476258.4	3753001.4	479.0	3.49	4.00	3.25 YES
L0002312	0	0.40720E-07	476267.0	3753001.4	478.9	3.49	4.00	3.25 YES
L0002313	0	0.40720E-07	476275.6	3753001.5	478.7	3.49	4.00	3.25 YES
L0002314	0	0.40720E-07	476284.2	3753001.5	478.6	3.49	4.00	3.25 YES
L0002315	0	0.40720E-07	476292.8	3753001.6	478.4	3.49	4.00	3.25 YES
L0002316	0	0.40720E-07	476301.4	3753001.6	478.3	3.49	4.00	3.25 YES
L0002317	0	0.40720E-07	476310.0	3753001.7	478.2	3.49	4.00	3.25 YES
L0002318	0	0.40720E-07	476318.6	3753001.8	478.0	3.49	4.00	3.25 YES
L0002319	0	0.40720E-07	476327.2	3753001.8	478.0	3.49	4.00	3.25 YES
L0002320	0	0.40720E-07	476335.8	3753001.9	478.0	3.49	4.00	3.25 YES
L0002321	0	0.40720E-07	476344.3	3753001.9	478.0	3.49	4.00	3.25 YES
L0002322	0	0.40720E-07	476352.9	3753002.0	478.0	3.49	4.00	3.25 YES
L0002323	0	0.40720E-07	476361.5	3753002.0	478.0	3.49	4.00	3.25 YES
L0002324	0	0.40720E-07	476370.1	3753002.1	478.0	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002325	0	0.40720E-07	476378.7	3753002.1	478.0	3.49	4.00	3.25	YES	
L0002326	0	0.40720E-07	476387.3	3753002.2	478.0	3.49	4.00	3.25	YES	
L0002327	0	0.40720E-07	476395.9	3753002.2	478.0	3.49	4.00	3.25	YES	
L0002328	0	0.40720E-07	476404.5	3753002.3	478.0	3.49	4.00	3.25	YES	
L0002329	0	0.40720E-07	476413.1	3753002.3	478.0	3.49	4.00	3.25	YES	
L0002330	0	0.40720E-07	476421.7	3753002.4	478.0	3.49	4.00	3.25	YES	
L0002331	0	0.40720E-07	476430.2	3753002.4	478.0	3.49	4.00	3.25	YES	
L0002332	0	0.40720E-07	476438.8	3753002.5	478.0	3.49	4.00	3.25	YES	
L0002333	0	0.40720E-07	476447.4	3753002.5	478.1	3.49	4.00	3.25	YES	
L0002334	0	0.40720E-07	476456.0	3753002.6	478.3	3.49	4.00	3.25	YES	
L0002335	0	0.40720E-07	476464.6	3753002.6	478.4	3.49	4.00	3.25	YES	
L0002336	0	0.40720E-07	476473.2	3753002.7	478.6	3.49	4.00	3.25	YES	
L0002337	0	0.40720E-07	476481.8	3753002.7	478.7	3.49	4.00	3.25	YES	
L0002338	0	0.40720E-07	476490.4	3753002.8	478.9	3.49	4.00	3.25	YES	
L0002339	0	0.40720E-07	476499.0	3753002.8	479.0	3.49	4.00	3.25	YES	

L0002340	0	0.40720E-07	476507.6	3753002.9	479.0	3.49	4.00	3.25 YES
L0002341	0	0.40720E-07	476516.1	3753002.9	479.0	3.49	4.00	3.25 YES
L0002342	0	0.40720E-07	476524.7	3753003.0	479.0	3.49	4.00	3.25 YES
L0002343	0	0.40720E-07	476533.3	3753003.1	479.0	3.49	4.00	3.25 YES
L0002344	0	0.40720E-07	476541.9	3753003.1	479.0	3.49	4.00	3.25 YES
L0002345	0	0.40720E-07	476550.5	3753003.2	479.0	3.49	4.00	3.25 YES
L0002346	0	0.40720E-07	476559.1	3753003.2	479.0	3.49	4.00	3.25 YES
L0002347	0	0.36480E-06	476342.5	3753001.3	478.0	3.49	4.00	3.25 YES
L0002348	0	0.36480E-06	476351.1	3753001.4	478.0	3.49	4.00	3.25 YES
L0002349	0	0.36480E-06	476359.7	3753001.5	478.0	3.49	4.00	3.25 YES
L0002350	0	0.36480E-06	476368.3	3753001.6	478.0	3.49	4.00	3.25 YES
L0002351	0	0.36480E-06	476376.9	3753001.7	478.0	3.49	4.00	3.25 YES
L0002352	0	0.36480E-06	476385.5	3753001.8	478.0	3.49	4.00	3.25 YES
L0002353	0	0.36480E-06	476394.1	3753001.9	478.0	3.49	4.00	3.25 YES
L0002354	0	0.36480E-06	476402.7	3753001.9	478.0	3.49	4.00	3.25 YES
L0002355	0	0.36480E-06	476411.2	3753002.0	478.0	3.49	4.00	3.25 YES
L0002356	0	0.36480E-06	476419.8	3753002.1	478.0	3.49	4.00	3.25 YES
L0002357	0	0.36480E-06	476428.4	3753002.2	478.0	3.49	4.00	3.25 YES
L0002358	0	0.36480E-06	476437.0	3753002.3	478.0	3.49	4.00	3.25 YES
L0002359	0	0.36480E-06	476445.6	3753002.4	478.1	3.49	4.00	3.25 YES
L0002360	0	0.36480E-06	476454.2	3753002.5	478.3	3.49	4.00	3.25 YES
L0002361	0	0.36480E-06	476462.8	3753002.6	478.4	3.49	4.00	3.25 YES
L0002362	0	0.36480E-06	476471.4	3753002.7	478.6	3.49	4.00	3.25 YES
L0002363	0	0.36480E-06	476480.0	3753002.8	478.7	3.49	4.00	3.25 YES
L0002364	0	0.36480E-06	476488.5	3753002.9	478.8	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002365	0	0.36480E-06	476497.1	3753002.9	479.0	3.49	4.00	3.25	YES	
L0002366	0	0.36480E-06	476505.7	3753003.0	479.0	3.49	4.00	3.25	YES	
L0002367	0	0.36480E-06	476514.3	3753003.1	479.0	3.49	4.00	3.25	YES	
L0002368	0	0.36480E-06	476522.9	3753003.2	479.0	3.49	4.00	3.25	YES	
L0002369	0	0.36480E-06	476531.5	3753003.3	479.0	3.49	4.00	3.25	YES	
L0002370	0	0.36480E-06	476540.1	3753003.4	479.0	3.49	4.00	3.25	YES	
L0002371	0	0.36480E-06	476548.7	3753003.5	479.0	3.49	4.00	3.25	YES	
L0002372	0	0.36480E-06	476557.3	3753003.6	479.0	3.49	4.00	3.25	YES	
L0002373	0	0.40230E-06	476570.2	3752995.4	479.0	3.49	4.00	3.25	YES	
L0002374	0	0.40230E-06	476578.4	3752993.0	479.0	3.49	4.00	3.25	YES	
L0002375	0	0.40230E-06	476586.7	3752990.8	479.0	3.49	4.00	3.25	YES	
L0002376	0	0.40230E-06	476595.1	3752989.0	479.0	3.49	4.00	3.25	YES	
L0002377	0	0.40230E-06	476603.5	3752987.2	479.0	3.49	4.00	3.25	YES	
L0002378	0	0.40230E-06	476611.9	3752985.4	479.0	3.49	4.00	3.25	YES	
L0002379	0	0.40230E-06	476619.7	3752982.1	478.9	3.49	4.00	3.25	YES	

L0002380	0	0.40230E-06	476627.3	3752977.9	478.7	3.49	4.00	3.25 YES
L0002381	0	0.40230E-06	476633.5	3752972.1	478.5	3.49	4.00	3.25 YES
L0002382	0	0.40230E-06	476639.4	3752965.8	478.3	3.49	4.00	3.25 YES
L0002383	0	0.40230E-06	476644.0	3752958.6	478.1	3.49	4.00	3.25 YES
L0002384	0	0.40230E-06	476648.1	3752951.2	478.0	3.49	4.00	3.25 YES
L0002385	0	0.40230E-06	476649.8	3752942.7	478.0	3.49	4.00	3.25 YES
L0002386	0	0.40230E-06	476651.4	3752934.3	478.0	3.49	4.00	3.25 YES
L0002387	0	0.40230E-06	476652.5	3752925.8	478.0	3.49	4.00	3.25 YES
L0002388	0	0.40230E-06	476653.1	3752917.2	478.0	3.49	4.00	3.25 YES
L0002389	0	0.40230E-06	476653.8	3752908.7	478.0	3.49	4.00	3.25 YES
L0002390	0	0.40230E-06	476654.4	3752900.1	478.0	3.49	4.00	3.25 YES
L0002391	0	0.40230E-06	476655.0	3752891.5	478.0	3.49	4.00	3.25 YES
L0002392	0	0.40230E-06	476655.7	3752883.0	478.0	3.49	4.00	3.25 YES
L0002393	0	0.40230E-06	476656.3	3752874.4	478.0	3.49	4.00	3.25 YES
L0002394	0	0.40230E-06	476656.9	3752865.8	478.0	3.49	4.00	3.25 YES
L0002395	0	0.40230E-06	476657.1	3752857.2	477.7	3.49	4.00	3.25 YES
L0002396	0	0.40230E-06	476657.4	3752848.7	477.4	3.49	4.00	3.25 YES
L0002397	0	0.40230E-06	476657.6	3752840.1	477.1	3.49	4.00	3.25 YES
L0002398	0	0.40230E-06	476657.8	3752831.5	477.0	3.49	4.00	3.25 YES
L0002399	0	0.40230E-06	476658.1	3752822.9	477.0	3.49	4.00	3.25 YES
L0002400	0	0.40230E-06	476658.3	3752814.3	477.0	3.49	4.00	3.25 YES
L0002401	0	0.40230E-06	476658.5	3752805.7	477.0	3.49	4.00	3.25 YES
L0002402	0	0.40230E-06	476658.7	3752797.1	477.0	3.49	4.00	3.25 YES
L0002403	0	0.40230E-06	476658.9	3752788.6	477.0	3.49	4.00	3.25 YES
L0002404	0	0.40230E-06	476658.9	3752780.0	477.0	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002411	0	0.40230E-06	476659.3	3752719.8	476.0	3.49	4.00	3.25	YES	
L0002412	0	0.40230E-06	476659.3	3752711.2	476.0	3.49	4.00	3.25	YES	
L0002413	0	0.40230E-06	476659.4	3752702.7	476.0	3.49	4.00	3.25	YES	
L0002414	0	0.40230E-06	476659.4	3752694.1	476.0	3.49	4.00	3.25	YES	
L0002415	0	0.40230E-06	476659.5	3752685.5	476.0	3.49	4.00	3.25	YES	
L0002416	0	0.40230E-06	476659.5	3752676.9	476.0	3.49	4.00	3.25	YES	
L0002417	0	0.40230E-06	476659.6	3752668.3	476.0	3.49	4.00	3.25	YES	
L0002418	0	0.40230E-06	476659.6	3752659.7	476.0	3.49	4.00	3.25	YES	
L0002419	0	0.40230E-06	476659.6	3752651.1	475.8	3.49	4.00	3.25	YES	

L0002420	0	0.40230E-06	476659.7	3752642.5	475.5	3.49	4.00	3.25 YES
L0002421	0	0.40230E-06	476659.7	3752633.9	475.2	3.49	4.00	3.25 YES
L0002422	0	0.40230E-06	476659.8	3752625.3	475.0	3.49	4.00	3.25 YES
L0002423	0	0.40230E-06	476659.8	3752616.8	475.0	3.49	4.00	3.25 YES
L0002424	0	0.40230E-06	476659.9	3752608.2	475.0	3.49	4.00	3.25 YES
L0002425	0	0.40230E-06	476659.9	3752599.6	475.0	3.49	4.00	3.25 YES
L0002426	0	0.40230E-06	476660.0	3752591.0	475.0	3.49	4.00	3.25 YES
L0002427	0	0.40230E-06	476660.0	3752582.4	475.0	3.49	4.00	3.25 YES
L0002428	0	0.40230E-06	476660.1	3752573.8	475.0	3.49	4.00	3.25 YES
L0002429	0	0.40230E-06	476660.1	3752565.2	475.0	3.49	4.00	3.25 YES
L0002430	0	0.40230E-06	476660.2	3752556.6	474.7	3.49	4.00	3.25 YES
L0002431	0	0.40230E-06	476660.2	3752548.0	474.4	3.49	4.00	3.25 YES
L0002432	0	0.40230E-06	476660.3	3752539.4	474.1	3.49	4.00	3.25 YES
L0002433	0	0.40230E-06	476660.3	3752530.9	474.0	3.49	4.00	3.25 YES
L0002434	0	0.40230E-06	476660.4	3752522.3	474.0	3.49	4.00	3.25 YES
L0002435	0	0.40230E-06	476660.4	3752513.7	474.0	3.49	4.00	3.25 YES
L0002436	0	0.40230E-06	476660.5	3752505.1	474.0	3.49	4.00	3.25 YES
L0002437	0	0.40230E-06	476660.5	3752496.5	474.0	3.49	4.00	3.25 YES
L0002438	0	0.40230E-06	476660.6	3752487.9	474.0	3.49	4.00	3.25 YES
L0002439	0	0.40230E-06	476660.6	3752479.3	474.0	3.49	4.00	3.25 YES
L0002440	0	0.40230E-06	476660.7	3752470.7	474.0	3.49	4.00	3.25 YES
L0002441	0	0.40230E-06	476660.7	3752462.1	474.0	3.49	4.00	3.25 YES
L0002442	0	0.40230E-06	476660.8	3752453.5	474.0	3.49	4.00	3.25 YES
L0002443	0	0.40230E-06	476660.8	3752445.0	473.9	3.49	4.00	3.25 YES
L0002444	0	0.40230E-06	476660.9	3752436.4	473.7	3.49	4.00	3.25 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002445	0	0.40230E-06	476660.9	3752427.8	473.4	3.49	4.00	3.25	YES	
L0002446	0	0.40230E-06	476661.0	3752419.2	473.1	3.49	4.00	3.25	YES	
L0002447	0	0.40230E-06	476661.0	3752410.6	473.0	3.49	4.00	3.25	YES	
L0002448	0	0.40230E-06	476661.1	3752402.0	473.0	3.49	4.00	3.25	YES	
L0002449	0	0.40230E-06	476661.1	3752393.4	473.0	3.49	4.00	3.25	YES	
L0002450	0	0.40230E-06	476661.2	3752384.8	473.0	3.49	4.00	3.25	YES	
L0002451	0	0.40230E-06	476661.2	3752376.2	473.0	3.49	4.00	3.25	YES	
L0002452	0	0.40230E-06	476661.3	3752367.6	473.0	3.49	4.00	3.25	YES	
L0002453	0	0.40230E-06	476661.3	3752359.1	473.0	3.49	4.00	3.25	YES	
L0002454	0	0.40230E-06	476661.3	3752350.5	472.8	3.49	4.00	3.25	YES	
L0002455	0	0.40230E-06	476661.4	3752341.9	472.5	3.49	4.00	3.25	YES	
L0002456	0	0.40230E-06	476661.4	3752333.3	472.2	3.49	4.00	3.25	YES	
L0002457	0	0.40230E-06	476661.5	3752324.7	472.0	3.49	4.00	3.25	YES	
L0002458	0	0.40230E-06	476661.5	3752316.1	472.0	3.49	4.00	3.25	YES	
L0002459	0	0.40230E-06	476661.6	3752307.5	472.0	3.49	4.00	3.25	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs
ALL	L0001891 , L0001892 , L0001893 , L0001894 , L0001895 , L0001896 , L0001897 , L0001898 , L0001899 , L0001900 , L0001901 , L0001902 , L0001903 , L0001904 , L0001905 , L0001906 , L0001907 , L0001908 , L0001909 , L0001910 , L0001911 , L0001912 , L0001913 , L0001914 , L0001915 , L0001916 , L0001917 , L0001918 , L0001919 , L0001920 , L0001921 , L0001922 , L0001923 , L0001924 , L0001925 , L0001926 , L0001927 , L0001928 , L0001929 , L0001930 , L0001931 , L0001932 , L0001933 , L0001934 , L0001935 , L0001936 , L0001937 , L0001938 ,

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             L0001939    , L0001940    , L0001941    , L0001942    , L0001943    ,
L0001944    , L0001945    , L0001946    ,

             L0001947    , L0001948    , L0001949    , L0001950    , L0001951    ,
L0001952    , L0001953    , L0001954    ,

             L0001955    , L0001956    , L0001957    , L0001958    , L0001959    ,
L0001960    , L0001961    , L0001962    ,

             L0001963    , L0001964    , L0001965    , L0001966    , L0001967    ,
L0001968    , L0001969    , L0001970    ,

             L0001971    , L0001972    , L0001973    , L0001974    , L0001975    ,
L0001976    , L0001977    , L0001978    ,

             L0001979    , L0001980    , L0001981    , L0001982    , L0001983    ,
L0001984    , L0001985    , L0001986    ,

             L0001987    , L0001988    , L0001989    , L0001990    , L0001991    ,
L0001992    , L0001993    , L0001994    ,

             L0001995    , L0001996    , L0001997    , L0001998    , L0001999    ,
L0002000    , L0002001    , L0002002    ,

             L0002003    , L0002004    , L0002005    , L0002006    , L0002007    ,
L0002008    , L0002009    , L0002010    ,

             L0002011    , L0002012    , L0002013    , L0002014    , L0002015    ,
L0002016    , L0002017    , L0002018    ,

             L0002019    , L0002020    , L0002021    , L0002022    , L0002023    ,
L0002024    , L0002025    , L0002026    ,

             L0002027    , L0002028    , L0002029    , L0002030    , L0002031    ,
L0002032    , L0002033    , L0002034    ,

             L0002035    , L0002036    , L0002037    , L0002038    , L0002039    ,
L0002040    , L0002041    , L0002042    ,

             L0002043    , L0002044    , L0002045    , L0002046    , L0002047    ,
L0002048    , L0002049    , L0002050    ,
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\13661 HRA\13661
HRA.isc                         ***        11/12/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        19:36:52

                                   PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0002051 , L0002052 , L0002053 , L0002054 , L0002055 , L0002056 , L0002057 , L0002058 ,
	L0002059 , L0002060 , L0002061 , L0002062 , L0002063 , L0002064 , L0002065 , L0002066 ,
	L0002067 , L0002068 , L0002069 , L0002070 , L0002071 , L0002072 , L0002073 , L0002074 ,
	L0002075 , L0002076 , L0002077 , L0002078 , L0002079 , L0002080 , L0002081 , L0002082 ,
	L0002083 , L0002084 , L0002085 , L0002086 , L0002087 , L0002088 , L0002089 , L0002090 ,
	L0002091 , L0002092 , L0002093 , L0002094 , L0002095 , L0002096 , L0002097 , L0002098 ,
	L0002099 , L0002100 , L0002101 , L0002102 , L0002103 , L0002104 , L0002105 , L0002106 ,
	L0002107 , L0002108 , L0002109 , L0002110 , L0002111 , L0002112 , L0002113 , L0002114 ,
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	L0002123 , L0002124 , L0002125 , L0002126 , L0002127 , L0002128 , L0002129 , L0002130 ,
	L0002131 , L0002132 , L0002133 , L0002134 , L0002135 , L0002136 , L0002137 , L0002138 ,
	L0002139 , L0002140 , L0002141 , L0002142 , L0002143 , L0002144 , L0002145 , L0002146 ,
	L0002147 , L0002148 , L0002149 , L0002150 , L0002151 , L0002152 , L0002153 , L0002154 ,
	L0002155 , L0002156 , L0002157 , L0002158 , L0002159 , L0002160 , L0002161 , L0002162 ,
	L0002163 , L0002164 , L0002165 , L0002166 , L0002167 ,

L0002168   , L0002169   , L0002170   ,

             L0002171   , L0002172   , L0002173   , L0002174   , L0002175   ,
L0002176   , L0002177   , L0002178   ,

             L0002179   , L0002180   , L0002181   , L0002182   , L0002183   ,
L0002184   , L0002185   , L0002186   ,

             L0002187   , L0002188   , L0002189   , L0002190   , L0002191   ,
L0002192   , L0002193   , L0002194   ,

             L0002195   , L0002196   , L0002197   , L0002198   , L0002199   ,
L0002200   , L0002201   , L0002202   ,

             L0002203   , L0002204   , L0002205   , L0002206   , L0002207   ,
L0002208   , L0002209   , L0002210   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID   SOURCE IDs
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             L0002211   , L0002212   , L0002213   , L0002214   , L0002215   ,
L0002216   , L0002217   , L0002218   ,

             L0002219   , L0002220   , L0002221   , L0002222   , L0002223   ,
L0002224   , L0002225   , L0002226   ,

             L0002227   , L0002228   , L0002229   , L0002230   , L0002231   ,
L0002232   , L0002233   , L0002234   ,

             L0002235   , L0002236   , L0002237   , L0002238   , L0002239   ,
L0002240   , L0002241   , L0002242   ,

             L0002243   , L0002244   , L0002245   , L0002246   , L0002247   ,
L0002248   , L0002249   , L0002250   ,

             L0002251   , L0002252   , L0002253   , L0002254   , L0002255   ,
L0002256   , L0002257   , L0002258   ,

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L0002264    , L0002265    , L0002266    ,

             L0002267    , L0002268    , L0002269    , L0002270    , L0002271    ,
L0002272    , L0002273    , L0002274    ,

             L0002275    , L0002276    , L0002277    , L0002278    , L0002279    ,
L0002280    , L0002281    , L0002282    ,

             L0002283    , L0002284    , L0002285    , L0002286    , L0002287    ,
L0002288    , L0002289    , L0002290    ,

             L0002291    , L0002292    , L0002293    , L0002294    , L0002295    ,
L0002296    , L0002297    , L0002298    ,

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L0002304    , L0002305    , L0002306    ,

             L0002307    , L0002308    , L0002309    , L0002310    , L0002311    ,
L0002312    , L0002313    , L0002314    ,

             L0002315    , L0002316    , L0002317    , L0002318    , L0002319    ,
L0002320    , L0002321    , L0002322    ,

             L0002323    , L0002324    , L0002325    , L0002326    , L0002327    ,
L0002328    , L0002329    , L0002330    ,

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L0002344    , L0002345    , L0002346    ,

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L0002352    , L0002353    , L0002354    ,

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L0002360    , L0002361    , L0002362    ,

             L0002363    , L0002364    , L0002365    , L0002366    , L0002367    ,
L0002368    , L0002369    , L0002370    ,
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\13661 HRA\13661
HRA.isc                         ***        11/12/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        19:36:52

                                   PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , L0002376 , L0002377 , L0002378 ,
	L0002379 , L0002380 , L0002381 , L0002382 , L0002383 , L0002384 , L0002385 , L0002386 ,
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	L0002403 , L0002404 , L0002405 , L0002406 , L0002407 , L0002408 , L0002409 , L0002410 ,
	L0002411 , L0002412 , L0002413 , L0002414 , L0002415 , L0002416 , L0002417 , L0002418 ,
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	L0002427 , L0002428 , L0002429 , L0002430 , L0002431 , L0002432 , L0002433 , L0002434 ,
	L0002435 , L0002436 , L0002437 , L0002438 , L0002439 , L0002440 , L0002441 , L0002442 ,
	L0002443 , L0002444 , L0002445 , L0002446 , L0002447 , L0002448 , L0002449 , L0002450 ,
	L0002451 , L0002452 , L0002453 , L0002454 , L0002455 , L0002456 , L0002457 , L0002458 ,
	L0002459 , L0002460 , L0002461 , L0002462 , L0002463 , L0002464 , L0002465 , L0002466 ,
	L0002467 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	L0001891 , L0001892 , L0001893 , L0001894 , L0001895 , L0001896 , L0001897 , L0001898 ,
		L0001899 , L0001900 , L0001901 , L0001902 , L0001903 , L0001904 , L0001905 , L0001906 ,
		L0001907 , L0001908 , L0001909 , L0001910 , L0001911 , L0001912 , L0001913 , L0001914 ,
		L0001915 , L0001916 , L0001917 , L0001918 , L0001919 , L0001920 , L0001921 , L0001922 ,
		L0001923 , L0001924 , L0001925 , L0001926 , L0001927 , L0001928 , L0001929 , L0001930 ,
		L0001931 , L0001932 , L0001933 , L0001934 , L0001935 , L0001936 , L0001937 , L0001938 ,
		L0001939 , L0001940 , L0001941 , L0001942 , L0001943 , L0001944 , L0001945 , L0001946 ,
		L0001947 , L0001948 , L0001949 , L0001950 , L0001951 , L0001952 , L0001953 , L0001954 ,
		L0001955 , L0001956 , L0001957 , L0001958 , L0001959 , L0001960 , L0001961 , L0001962 ,
		L0001963 , L0001964 , L0001965 , L0001966 , L0001967 , L0001968 , L0001969 , L0001970 ,
		L0001971 , L0001972 , L0001973 , L0001974 , L0001975 , L0001976 , L0001977 , L0001978 ,
		L0001979 , L0001980 , L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 ,
		L0001987 , L0001988 , L0001989 , L0001990 , L0001991 , L0001992 , L0001993 , L0001994 ,

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             L0001995    , L0001996    , L0001997    , L0001998    , L0001999    ,
L0002000    , L0002001    , L0002002    ,

             L0002003    , L0002004    , L0002005    , L0002006    , L0002007    ,
L0002008    , L0002009    , L0002010    ,

             L0002011    , L0002012    , L0002013    , L0002014    , L0002015    ,
L0002016    , L0002017    , L0002018    ,

             L0002019    , L0002020    , L0002021    , L0002022    , L0002023    ,
L0002024    , L0002025    , L0002026    ,

             L0002027    , L0002028    , L0002029    , L0002030    , L0002031    ,
L0002032    , L0002033    , L0002034    ,

             L0002035    , L0002036    , L0002037    , L0002038    , L0002039    ,
L0002040    , L0002041    , L0002042    ,

             L0002043    , L0002044    , L0002045    , L0002046    , L0002047    ,
L0002048    , L0002049    , L0002050    ,
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\13661 HRA\13661
HRA.isc                        ***        11/12/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        19:36:52

                                    PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


             L0002051    , L0002052    , L0002053    , L0002054    , L0002055    ,
L0002056    , L0002057    , L0002058    ,

             L0002059    , L0002060    , L0002061    , L0002062    , L0002063    ,
L0002064    , L0002065    , L0002066    ,

             L0002067    , L0002068    , L0002069    , L0002070    , L0002071    ,
L0002072    , L0002073    , L0002074    ,

             L0002075    , L0002076    , L0002077    , L0002078    , L0002079    ,
L0002080    , L0002081    , L0002082    ,

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L0002088    , L0002089    , L0002090    ,
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L0002096    , L0002097    , L0002098    ,

             L0002099    , L0002100    , L0002101    , L0002102    , L0002103    ,
L0002104    , L0002105    , L0002106    ,

             L0002107    , L0002108    , L0002109    , L0002110    , L0002111    ,
L0002112    , L0002113    , L0002114    ,

             L0002115    , L0002116    , L0002117    , L0002118    , L0002119    ,
L0002120    , L0002121    , L0002122    ,

             L0002123    , L0002124    , L0002125    , L0002126    , L0002127    ,
L0002128    , L0002129    , L0002130    ,

             L0002131    , L0002132    , L0002133    , L0002134    , L0002135    ,
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L0002144    , L0002145    , L0002146    ,

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L0002152    , L0002153    , L0002154    ,

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L0002160    , L0002161    , L0002162    ,

             L0002163    , L0002164    , L0002165    , L0002166    , L0002167    ,
L0002168    , L0002169    , L0002170    ,

             L0002171    , L0002172    , L0002173    , L0002174    , L0002175    ,
L0002176    , L0002177    , L0002178    ,

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L0002184    , L0002185    , L0002186    ,

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L0002192    , L0002193    , L0002194    ,

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L0002200    , L0002201    , L0002202    ,

             L0002203    , L0002204    , L0002205    , L0002206    , L0002207    ,
L0002208    , L0002209    , L0002210    ,
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\13661 HRA\13661
HRA.isc                         ***        11/12/20
 *** AERMET - VERSION  16216 ***   ***
                        ***       19:36:52
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
		L0002211 , L0002212 , L0002213 , L0002214 , L0002215 , L0002216 , L0002217 , L0002218 ,
		L0002219 , L0002220 , L0002221 , L0002222 , L0002223 , L0002224 , L0002225 , L0002226 ,
		L0002227 , L0002228 , L0002229 , L0002230 , L0002231 , L0002232 , L0002233 , L0002234 ,
		L0002235 , L0002236 , L0002237 , L0002238 , L0002239 , L0002240 , L0002241 , L0002242 ,
		L0002243 , L0002244 , L0002245 , L0002246 , L0002247 , L0002248 , L0002249 , L0002250 ,
		L0002251 , L0002252 , L0002253 , L0002254 , L0002255 , L0002256 , L0002257 , L0002258 ,
		L0002259 , L0002260 , L0002261 , L0002262 , L0002263 , L0002264 , L0002265 , L0002266 ,
		L0002267 , L0002268 , L0002269 , L0002270 , L0002271 , L0002272 , L0002273 , L0002274 ,
		L0002275 , L0002276 , L0002277 , L0002278 , L0002279 , L0002280 , L0002281 , L0002282 ,
		L0002283 , L0002284 , L0002285 , L0002286 , L0002287 , L0002288 , L0002289 , L0002290 ,
		L0002291 , L0002292 , L0002293 , L0002294 , L0002295 , L0002296 , L0002297 , L0002298 ,
		L0002299 , L0002300 , L0002301 , L0002302 , L0002303 , L0002304 , L0002305 , L0002306 ,
		L0002307 , L0002308 , L0002309 , L0002310 , L0002311 , L0002312 , L0002313 , L0002314 ,

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L0002320    , L0002321    , L0002322    ,

             L0002323    , L0002324    , L0002325    , L0002326    , L0002327    ,
L0002328    , L0002329    , L0002330    ,

             L0002331    , L0002332    , L0002333    , L0002334    , L0002335    ,
L0002336    , L0002337    , L0002338    ,

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L0002344    , L0002345    , L0002346    ,

             L0002347    , L0002348    , L0002349    , L0002350    , L0002351    ,
L0002352    , L0002353    , L0002354    ,

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L0002360    , L0002361    , L0002362    ,

             L0002363    , L0002364    , L0002365    , L0002366    , L0002367    ,
L0002368    , L0002369    , L0002370    ,
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```
                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


             L0002371    , L0002372    , L0002373    , L0002374    , L0002375    ,
L0002376    , L0002377    , L0002378    ,

             L0002379    , L0002380    , L0002381    , L0002382    , L0002383    ,
L0002384    , L0002385    , L0002386    ,

             L0002387    , L0002388    , L0002389    , L0002390    , L0002391    ,
L0002392    , L0002393    , L0002394    ,

             L0002395    , L0002396    , L0002397    , L0002398    , L0002399    ,
L0002400    , L0002401    , L0002402    ,

             L0002403    , L0002404    , L0002405    , L0002406    , L0002407    ,
L0002408    , L0002409    , L0002410    ,
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             L0002411    , L0002412    , L0002413    , L0002414    , L0002415    ,
L0002416    , L0002417    , L0002418    ,

             L0002419    , L0002420    , L0002421    , L0002422    , L0002423    ,
L0002424    , L0002425    , L0002426    ,

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L0002432    , L0002433    , L0002434    ,

             L0002435    , L0002436    , L0002437    , L0002438    , L0002439    ,
L0002440    , L0002441    , L0002442    ,

             L0002443    , L0002444    , L0002445    , L0002446    , L0002447    ,
L0002448    , L0002449    , L0002450    ,

             L0002451    , L0002452    , L0002453    , L0002454    , L0002455    ,
L0002456    , L0002457    , L0002458    ,

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L0002464    , L0002465    , L0002466    ,

             L0002467    ,
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                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                      (METERS)

     ( 476280.4, 3753038.9,     479.0,     479.0,       0.0);         ( 476774.5,
3752925.0,     478.0,     478.0,       0.0);
     ( 475830.7, 3752777.3,     476.0,     476.0,       0.0);         ( 475836.6,
3753080.7,     478.0,     478.0,       0.0);
     ( 476121.7, 3753059.0,     479.0,     479.0,       0.0);
```



```
                                           *** METEOROLOGICAL DAYS SELECTED FOR
```

PROCESSING ***
(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
Met Version: 16216
Profile file: PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190

Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61						

```
1.00    1.30  318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61
1.00    1.30  332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** C:\Lakes\AERMOD View\13661 HRA\13661
HRA.isc                          ***        11/12/20
 *** AERMET - VERSION  16216 ***   ***
                         ***        19:36:52

                                    PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                     INCLUDING SOURCE(S):     L0001891    , L0001892
 , L0001893    , L0001894    , L0001895    ,
                   L0001896    , L0001897    , L0001898    , L0001899    , L0001900
 , L0001901    , L0001902    , L0001903    ,
                   L0001904    , L0001905    , L0001906    , L0001907    , L0001908
 , L0001909    , L0001910    , L0001911    ,
                   L0001912    , L0001913    , L0001914    , L0001915    , L0001916
 , L0001917    , L0001918    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         476280.36    3753038.93        0.00793                      476774.46
3752924.97        0.00246
         475830.74    3752777.31        0.00280                      475836.57
3753080.71        0.00324
         476121.66    3753059.02        0.00638
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

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

ALL       1ST HIGHEST VALUE IS       0.00793 AT (  476280.36,  3753038.93,
479.00,   479.00,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00638 AT (  476121.66,  3753059.02,
479.00,   479.00,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00324 AT (  475836.57,  3753080.71,
478.00,   478.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00280 AT (  475830.74,  3752777.31,
476.01,   476.01,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00246 AT (  476774.46,  3752924.97,
478.00,   478.00,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,
0.00,     0.00,    0.00)
          7TH HIGHEST VALUE IS       0.00000 AT (       0.00,        0.00,
0.00,     0.00,    0.00)
          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
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

A Total of   0 Fatal Error Message(s)
A Total of   4 Warning Message(s)
A Total of   2028 Informational Message(s)

A Total of   43824 Hours Were Processed

A Total of   978 Calm Hours Identified

A Total of   1050 Missing Hours Identified (2.40 Percent)

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

   ********   WARNING MESSAGES   ********
ME W186   1385   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
ME W187   1385   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

MX W450   17521   CHKDAT: Record Out of Sequence in Meteorological File at:
 14010101
MX W450   17521   CHKDAT: Record Out of Sequence in Meteorological File at:
2 year gap

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

AVERAGE EMISSION FACTOR
RIVERSIDE COUNTY 2022

Speed	LHD1	MHD	HHD
0	0.389075	0.130109	0.01485
5	0.037927	0.062152	0.04296
25	0.013603	0.0316	0.01812

Speed	**Weighted Average Emissions**
0	**0.12462**
5	**0.04500**
25	**0.01931**

Emission Rates - 2022 Emission Factors

Truck Emission Rates						
Source	**Trucks Per Day**	**VMT [a] (miles/day)**	**Truck Emission Rate [b] (grams/mile)**	**Truck Emission Rate [b] (grams/idle-hour)**	**Daily Truck Emissions [c] (grams/day)**	**Modeled Emission Rates (g/second)**
On-Site Idling Building 1	83			0.1246	13.06	1.511E-04
On-Site Idling Building 2	29			0.1246	4.29	4.967E-05
On-Site Travel Building 1	166	69.63	0.0450		6.65	7.694E-05
On-Site Travel Building 2	58	9.04	0.0450		0.83	9.593E-06
Off-Site Travel 90% Inbound Dwy 1	202	127.44	0.0193		3.72	4.309E-05
Off-Site Travel 10% Inbound Dwy 3	22	17.84	0.0193		0.52	6.033E-06
Off-Site Travel 10% Outbound Dwy 1	22	6.86	0.0193		0.20	2.321E-06
Off-Site Travel 90% Outbound Dwy 3	202	28.05	0.0193		0.82	9.484E-06
Off-Site Travel 100% Outbound on Graham St.	224	113.03	0.0193		3.30	3.822E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes. Additionally, this colum includes idling from TRUs accessing the Project, it is assumed that TRUs would idle for up to 30 minutes.

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatu	relative_h	process	speed_tim	pollutant	emission_rate
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.043461
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.018326
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.076718
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.027515
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.070223
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.035704
2022	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.015028
2022	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.78701
2022	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.147006

Idling / TRU Unmitigated

Emission Factor:		
TRU EF	0.12	g/bhp-hr
TRU HP	23	HP
TRU Load Factor	0.46	
TRU EF @23 HP and 0.53 LF	1.2696	g/idle-hr
Emission Factor:		
TRU EF	0.01	g/bhp-hr
TRU HP	34	HP
TRU Load Factor	0.53	
TRU EF @34 HP and 0.53 LF	0.1802	g/idle-hr
Emission Factor:		
Weighted Avg TRU EF (60% 25+ HP, 40% <25 HP)	0.61596	g/idle-hr

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: County
Region: Riverside
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for VMT, trips/year for Trips, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
Riverside	2022	HHDT	Aggregate	Aggregate	Gasoline	7.255052
Riverside	2022	HHDT	Aggregate	Aggregate	Diesel	27819.82
Riverside	2022	HHDT	Aggregate	Aggregate	Natural Ga	316.9854
Riverside	2022	LHDT1	Aggregate	Aggregate	Gasoline	20620.88
Riverside	2022	LHDT1	Aggregate	Aggregate	Diesel	20161.77
Riverside	2022	MHDT	Aggregate	Aggregate	Gasoline	2027.159
Riverside	2022	MHDT	Aggregate	Aggregate	Diesel	15610.04

HHDT% GAS/NG	0.011521
HHDT% DSL	0.988479
LHDT1% GAS	0.505629
LHDT1% DSL	0.494371
MHDT% GAS	0.114937
MHDT% DSL	0.885063

APPENDIX 2.2:

RISK CALCULATIONS

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00793	7.93E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.7E-06	8.7E-08	5.0E+00	1.4E-03	1.6E-03							
TOTAL								8.7E-08			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

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

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00793	7.93E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	8.3E-06	2.1E-06	5.0E+00	1.4E-03	1.6E-03							
TOTAL								2.1E-06			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00793	7.93E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.3E-06	2.0E-06	5.0E+00	1.4E-03	1.6E-03							
TOTAL								2.0E-06			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00793	7.93E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.0E-06	3.0E-07	5.0E+00	1.4E-03	1.6E-03							
TOTAL								3.0E-07			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.30										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 4.48

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	2.80E-03	2.80E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.4E-07	1.7E-07	5.0E+00	1.4E-03	5.6E-04							
	TOTAL								1.8E-07			6.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.18										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Table 6
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
9-Year School Child Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	4.60E-04	4.60E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-07	5.3E-08	5.0E+00	1.4E-03	9.2E-05							
	TOTAL								7.3E-08			1.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.07										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	180
exposure duration (years)	9
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
age sensitivity factor (ages 4-13)	3