Goodman Logistics Center Fullerton

MOBILE SOURCE HEALTH RISK ASSESSMENT

CITY OF FULLERTON

PREPARED BY:

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

JULY 28, 2020

13157-04 HRA Report

TABLE OF CONTENTS

APPENDICES

LIST OF EXHIBITS

LIST OF TABLES

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	Goodman Logistics Center Fullerton
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

This page intentionally left blank

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 R6, which represents the existing sensitive residence at 1545 East Benmore Lane, in the City of Anaheim, approximately 1,282 feet south of the Project site. Since there is no private outdoor living area (back yard) facing the Project site at this location, R6 is placed at the building façade. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 1.36 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 0.0005, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance than the MEIR analyzed herein, and DPM generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location R9, which represents the State College Business Plaza at 1201 South State College Boulevard in the City of Fullerton, approximately 27 feet south of the Project site. R9 is placed at the building façade where a worker could remain for a typical workday. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.83 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 0.003, 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.

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	1.36	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.83	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	0.0005	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	0.003	1.0	NO

URBAN CROSSROADS

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 <u>Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis</u> (1) 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* (2)*.* 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.

URBAN CROSSROADS

1.1   SITE LOCATION

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

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

1.2   PROJECT DESCRIPTION

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

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 *Goodman Logistics Center Fullerton Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 3,422 two-way vehicular trips per day (1,711 inbound and 1,711 outbound) which includes 904 two-way truck trips per day (452 inbound and 452 outbound) (3). This health risk assessment study evaluates

---

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

the potential impacts resulting from diesel exhaust from the 904 two-way truck trips generated by the Project.

EXHIBIT 1-A: LOCATION MAP
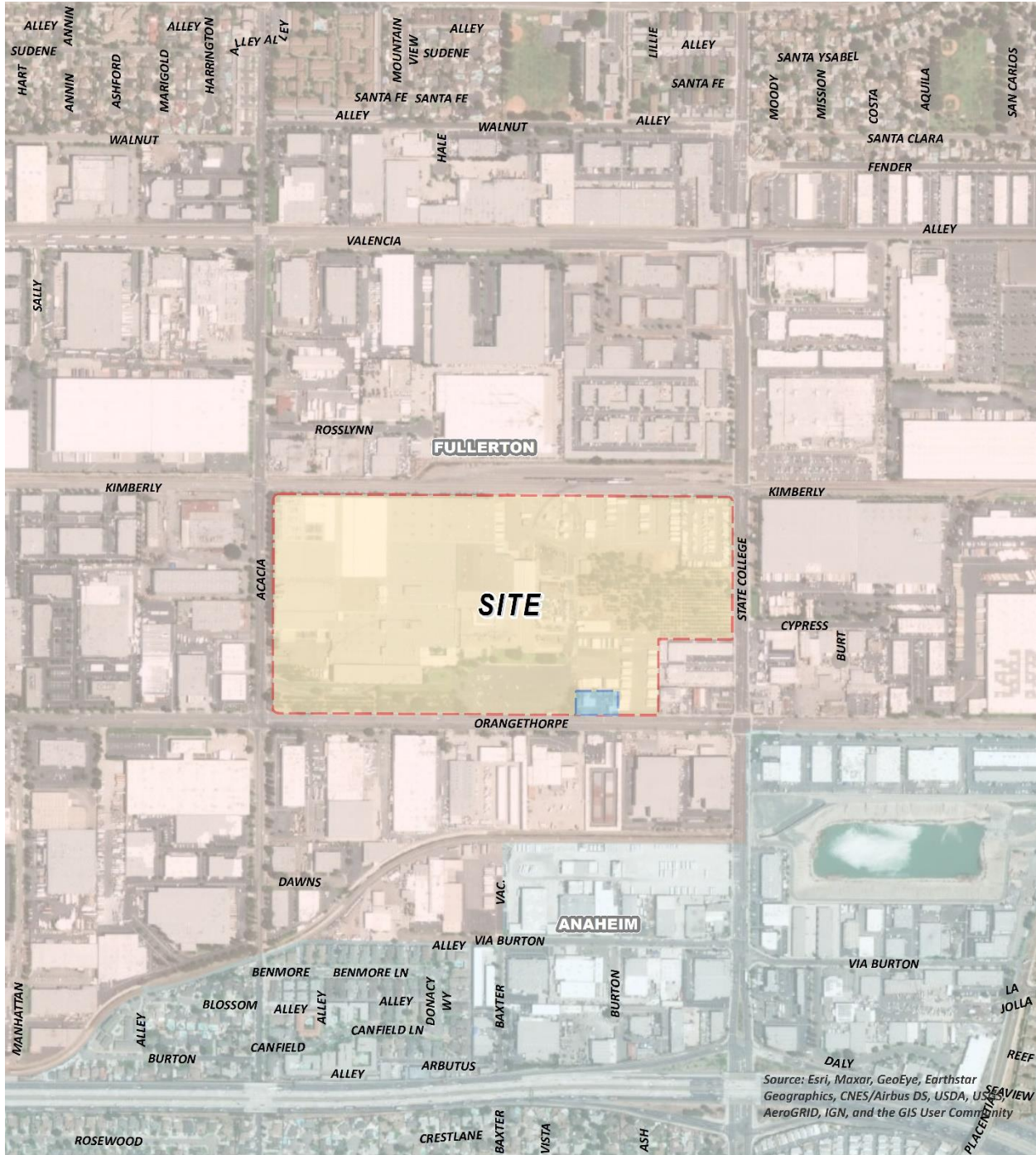
EXHIBIT 1-B: SITE PLAN
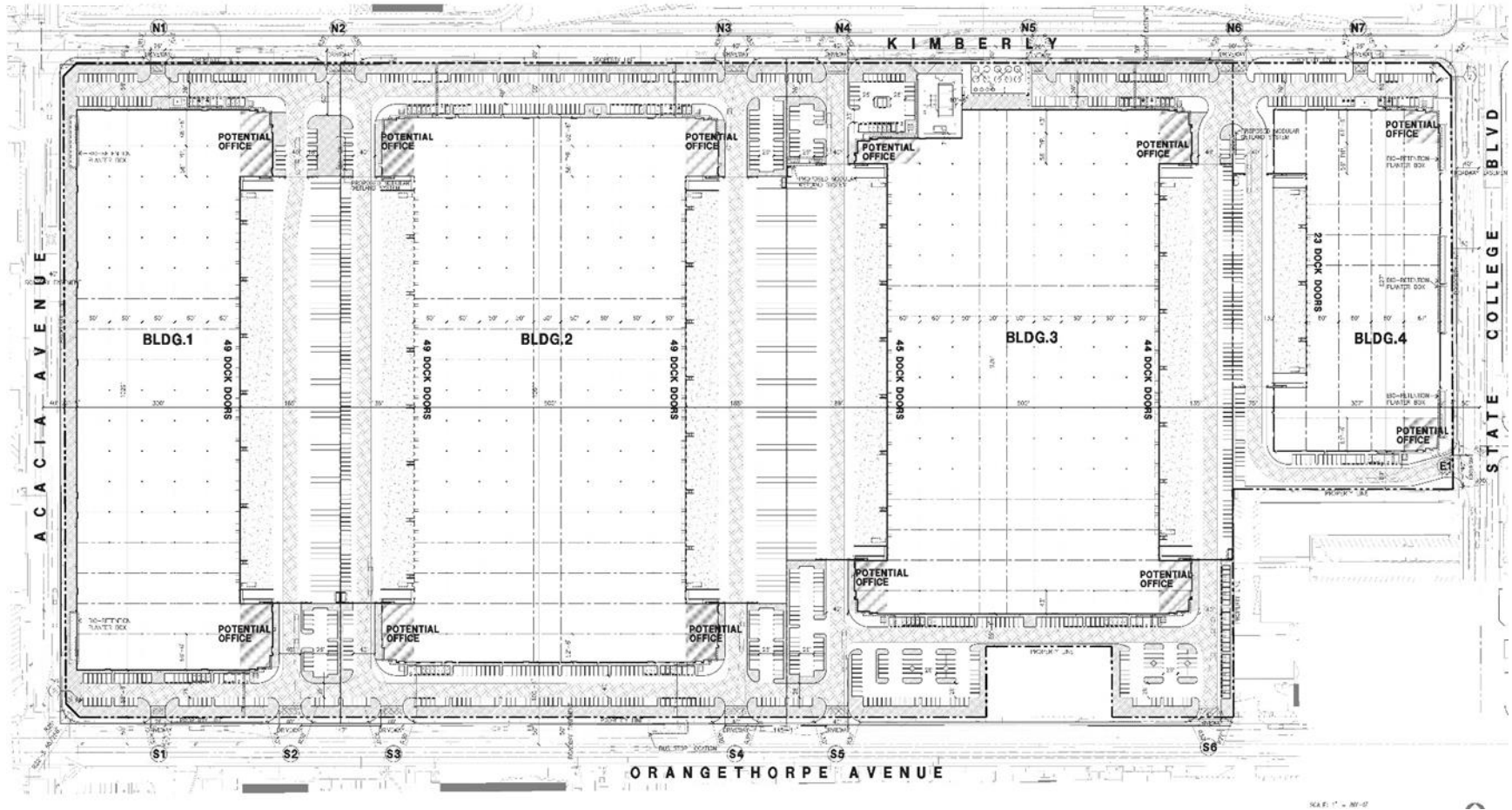
EXHIBIT 1-C: OPTIONAL SITE PLAN

URBAN CROSSROADS
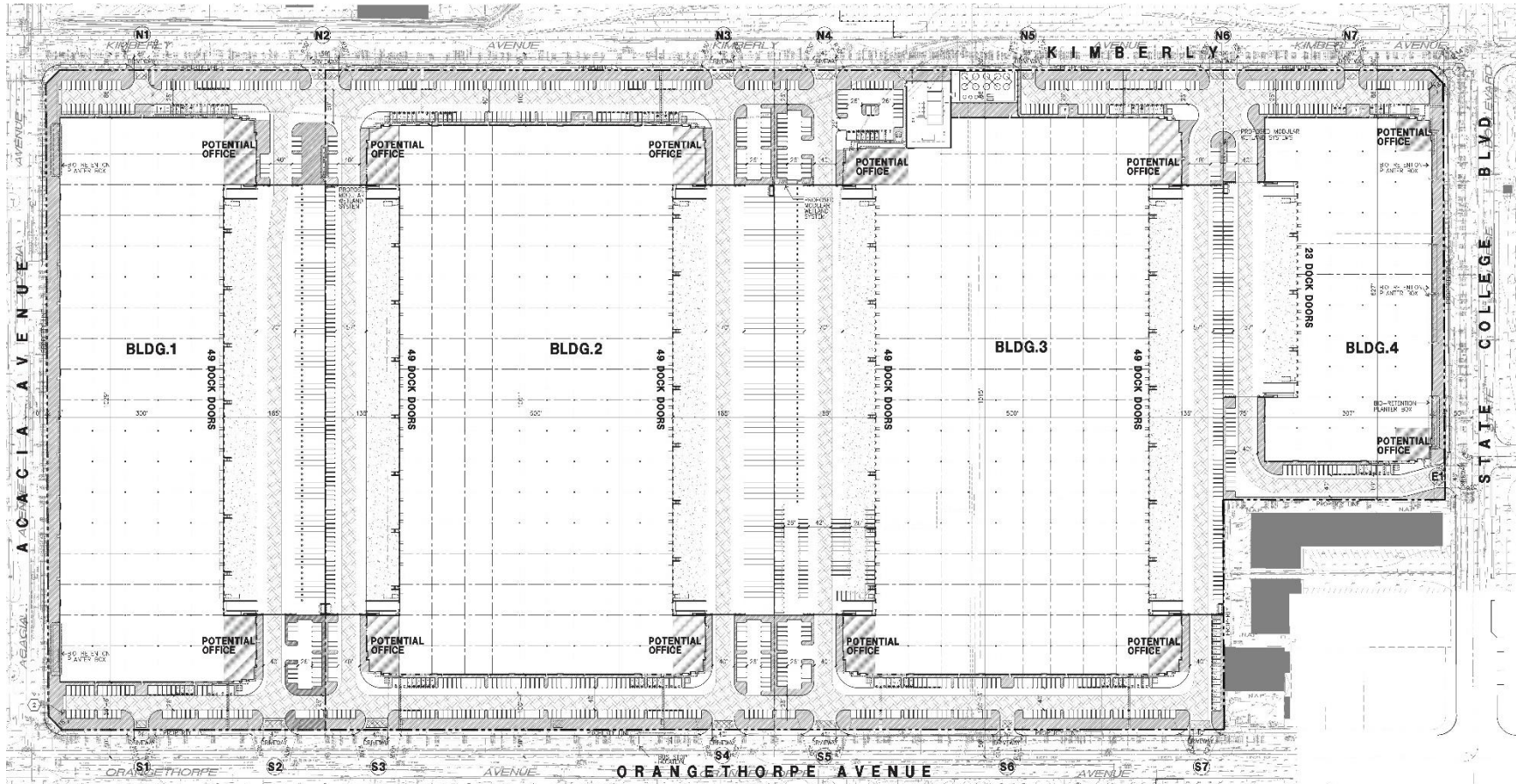
This page intentionally left blank

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.[2] 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 (4). 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 SCAQMD jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The

---

[2] 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.

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 39.94% diesel, Medium-Heavy-Duty Trucks are comprised of 79.05% diesel, and Heavy-Heavy-Duty Trucks are comprised of 92.16% 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 (5):

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

Where:

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

$\text{EF}_{\text{RunExhaust}}$ (g/VMT): EMFAC running exhaust PM_{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 (5):

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

60 minutes   per hour / seconds per day

Where:

$\text{Emissions}_{\text{idle}}$ (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)	0.08411 (g/idle-hr)
5	0.03845 (g/s)
25	0.01696 (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 ½ 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 (6) (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 *Goodman Logistics Center Fullerton Traffic Impact Analysis* (TIA) prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 3,422 two-way vehicular trips per day (1,711 inbound and 1,711 outbound) which includes 904 two-way truck trips per day (452 inbound and 452 outbound) (3). This health risk assessment study evaluates the potential impacts resulting from diesel exhaust from the 904 two-way truck trips generated by the Project, which is conservative since no credit for the daily truck trips associated with the existing use are taken in the HRA.

EXHIBIT 2-A: MODELED EMISSION SOURCES
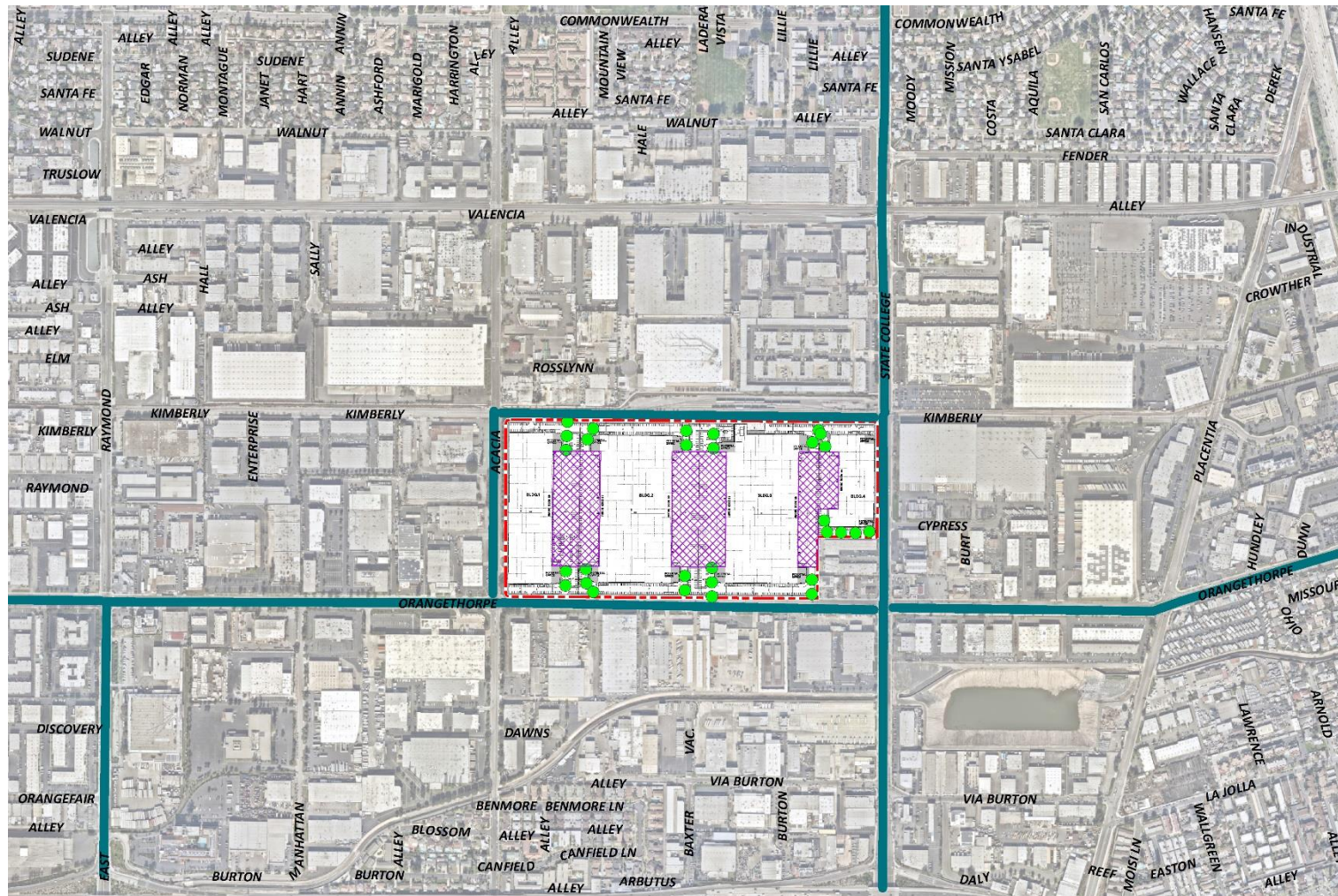
LEGEND:

- ⬜ Site Boundary
- ⬛ On-Site Truck & TRU Idling
- ●● On-Site Truck Travel
- ▬ Off-Site Truck Travel

URBAN CROSSROADS

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

Truck Emission Rates						
Source	Trucks Per Day	VMT [b] (miles/day)	Truck Emission Rate [c] (grams/mile)	Truck Emission Rate [c] (grams/idle-hour)	Daily Truck Emissions [d] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	83			0.1059	19.11	2.212E-04
On-Site Idling Building 2 (West Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 2 (East Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 3 (West Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 3 (East Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 4	39			0.1059	1.03	1.196E-05
On-Site Travel Building 1	166	37.10	0.0367		4.38	5.073E-05
On-Site Travel Building 2 (West Side)	165	38.63	0.0367		4.56	5.283E-05
On-Site Travel Building 2 (East Side)	165	37.32	0.0367		1.37	1.583E-05
On-Site Travel Building 3 (West Side)	165	37.67	0.0367		1.38	1.598E-05
On-Site Travel Building 3 (East Side)	165	38.08	0.0367		1.40	1.615E-05
On-Site Travel Building 4	78	16.41	0.0367		0.60	6.962E-06
Off-Site Travel 10% on Acacia Av. [a]	90	21.22	0.0155		0.68	7.818E-06
Off-Site Travel 30% on Kimberly Av. [a]	271	130.06	0.0155		4.14	4.793E-05
Off-Site Travel 30% on Orangethorpe Av. [a]	271	129.49	0.0155		4.12	4.772E-05
Off-Site Travel 30% on N. State College Blvd. [a]	271	63.95	0.0155		2.04	2.357E-05
Off-Site Travel 55% south on N. State College Blvd. to SR-91	497	182.99	0.0155		5.83	6.743E-05
Off-Site Travel 30% east on Orangethorpe to SR-57	271	185.50	0.0155		5.91	6.836E-05
Off-Site Travel 10% on Orangethorpe to Raymond Av.	90	45.76	0.0155		1.46	1.686E-05
Off-Site Travel 5% on Raymond Av. to SR-91	45	15.67	0.0155		0.50	5.775E-06
Off-Site Travel 5% on Orangethorpe west of Raymond Av.	45	19.79	0.0155		0.63	7.294E-06
Off-Site Travel 5% on N. State College Blvd.	45	33.48	0.0155		1.07	1.234E-05

[a] Off-Site Truck Travel along the project frontage routes (Acacia, Kimberly, Orangethorpe, N. State College) is conservative since the percentage identified is presumed to travel the entire distance of the link.

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

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

[d] 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.

URBAN CROSSROADS

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 up to 804,692 sf of High Cube Cold Storage Warehouse proposed, all trucks accessing this land use are presumed to also have transport refrigeration units (TRUs). Therefore, for modeling purposes 299 total daily trucks (one-way) are assumed 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 <u>Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis</u> (1). 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 Fullerton Airport (KFUL) monitoring station (SRA 16) was used to represent local weather conditions and prevailing winds (11). A wind rose exhibit of the KSNA monitoring station is provided at Exhibit 2-B.

URBAN
CROSSROADS

EXHIBIT 2-B: WIND ROSE (SRA 17)

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	365	24
16 to 30	261	1	14	0.73	365	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 (1), 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) x (1 x 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[3]

Individual Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is Location R6, which represents the existing sensitive residence at 1545 East Benmore Lane, in the City of Anaheim, approximately 1,282 feet south of the Project site. Since there is no private outdoor living area (back yard) facing the Project site at this location, R6 is placed at the building façade. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 1.36 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 0.0005, 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:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is Location R9, which represents the State College Business Plaza at 1201 South State College Boulevard in the City of Fullerton, approximately 27 feet south of the Project site. R9 is placed at the building façade where a worker could remain for a typical workday. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.83 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 0.003, 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

---

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

significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-C.

EXHIBIT 2-C: MODELED RECEPTORS
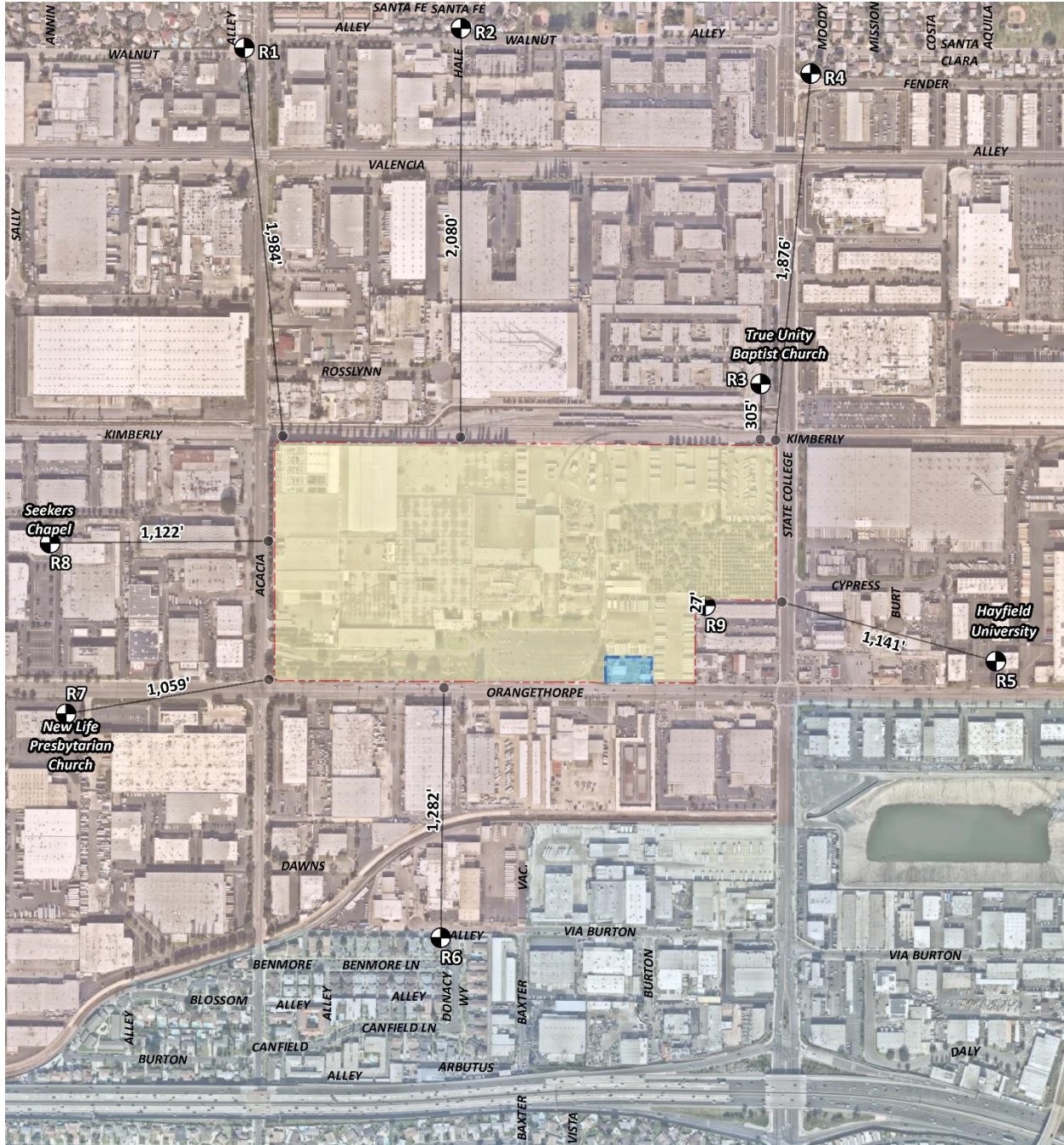
This page intentionally left blank

2.7 CUMULATIVE TOXIC AIR CONTAMINANTS (TAC) EMISSIONS IMPACTS

2.7.1 BACKGROUND

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

2.7.2 JUSTIFICATION OF THE GEOGRAPHIC SCOPE OF THE ANALYSIS

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on ARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (6).

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

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

Lastly, the Waters Bill (AB 3205) (H&SC Section, 42301.6 through 42301.9) (13) addresses sources of hazardous air pollutants near schools and although not directly applicable to this project, this bill further evidences the propriety of considering hazardous emissions sources within a defined 1,000 foot radius. That is, pursuant to the Waters Bill, prior to approving an application for a permit to construct or modify a source which emits hazardous air emissions (i.e. DPM), which source is located within 1,000 feet from the outer boundary of a school site, the air pollution control officer shall prepare a public notice in which the proposed project or modification for which the application for a permit is made is fully described.

URBAN CROSSROADS

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

2.7.3 RELATED PROJECTS CONTRIBUTION TO CUMULATIVE TAC IMPACTS

New or proposed potential TAC-generating projects (related projects) in the Study Area could contribute to cumulative TAC impacts.

In consultation with the Lead Agency, related TAC-generating projects located within a one-quarter mile radius of the Project and off-site truck travel routes were identified and are reflected in this cumulative TAC analysis. The related projects listed below were selected based on their propensity to generate TACs that would contribute to, or interact with, TACs generated by the Project. Exhibit 2-D illustrates cumulative projects in the study area and a quarter-mile buffer.

The following cumulative projects were identified to fall within the quarter-mile buffer:

- F1: 85,758 sf Major Retail and Shops area
- A1: 3,060 sf convenience store
- P4: 7,600 sf General Light Industrial area

Of the cumulative projects within a quarter-mile buffer, only P4: 7,600 sf of General Light Industrial area would have the potential to emit TACs and is located within the quarter-mile buffer of the Project site and primary truck routes. Notwithstanding, a 7,600 sf General Light Industrial use would generate a negligible amount of truck trips (4 truck trips per day) and consequently a negligible amount of DPM which is the primary TAC that would be emitted.

2.7.4 PROJECT MAXIMUM CONTRIBUTION TO CUMULATIVE TAC IMPACTS

Project-source TACs would incrementally increase the cumulative cancer risk by a maximum of 1.36 incidents per million population. The applicable SCAQMD significance threshold for Project-level TAC-source cancer risk impacts is 10 incidents per million population. Similarly, SCAQMD significance thresholds state that Project contributions to cumulative TAC-source cancer risks would be cumulatively considerable if greater than 10 incidents per million population would occur. The 1.36 incidents per million population increment resulting from the Project is therefore not significant, nor cumulatively considerable.

2.7.5 CUMULATIVE IMPACTS

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

URBAN
CROSSROADS

As noted above at Section 2.7.4, the Project's maximum contribution to cumulative TAC Impacts would not be cumulatively considerable.

EXHIBIT 2-D: CUMULATIVE DEVELOPMENT WITHIN ¼ MILE OF THE PROJECT AND PRIMARY TRUCK ROUTE
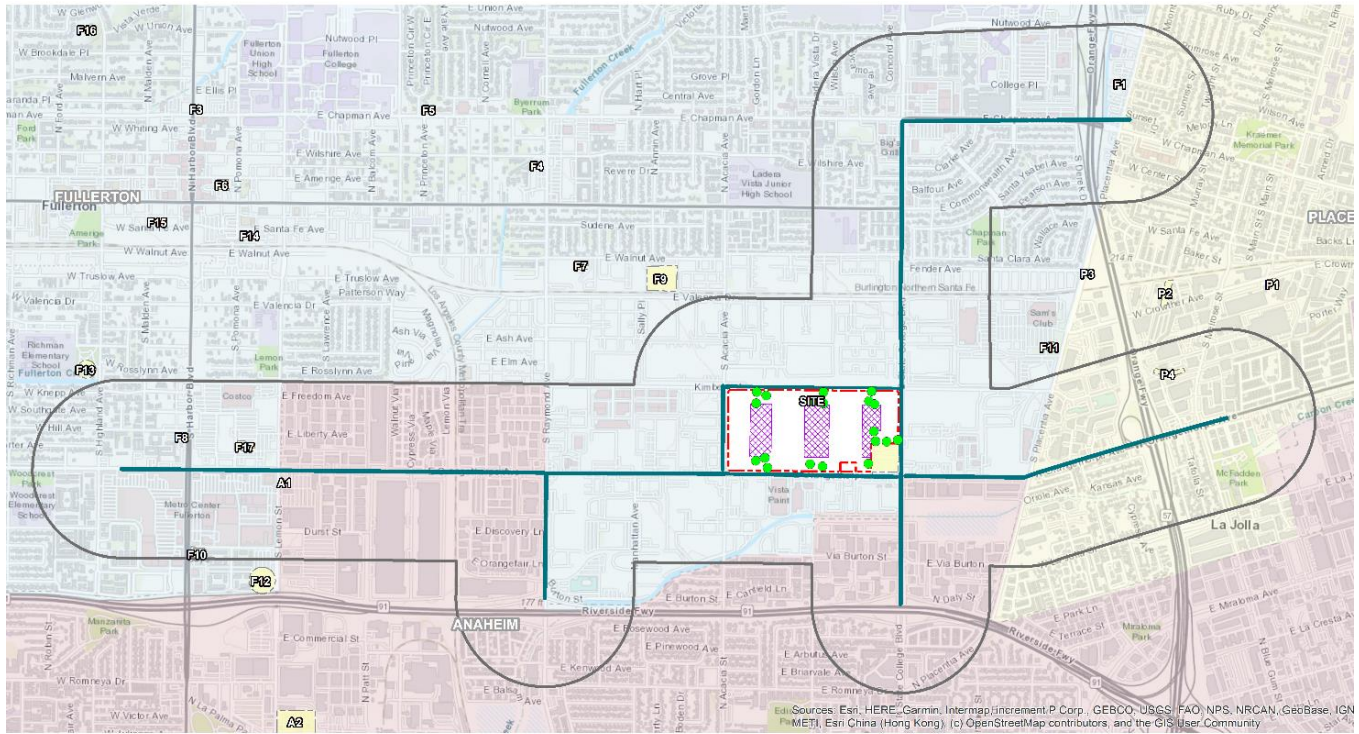
Legend

- - - Site Boundary	—— Off-Site Truck Travel
▨ On-Site Truck & TRU Idling	▭ Quarter-Mile Radius
●●●●● On-Site Truck Travel	▭ Cumulative Development

URBAN CROSSROADS

3   REFERENCES

1. **South Coast Air Quality Managment District.** Mobile Source Toxics Analysis. [Online] 2003. http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html.

2. **Goss, Tracy A and Kroeger, Amy.** White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. [Online] South Coast Air Quality Management District, 2003. [Cited: June 6, 2019.] http://www.aqmd.gov/docs/default-source/Agendas/Environmental-Justice/cumulative-impacts-working-group/cumulative-impacts-white-paper.pdf?sfvrsn=2.

3. **Urban Crossroads, Inc.** *Goodman Logistics Center Traffic Impact Analysis.* 2020.

4. **California Air Resources Board.** EMFAC 2017. [Online] https://www.arb.ca.gov/emfac/2017/.

5. **California Department of Transportation.** EMFAC Software. [Online] http://www.dot.ca.gov/hq/env/air/pages/emfac.htm.

6. **Air Resources Board.** *Air Quality and Land Use Handbook: A Community Health Perspective.* 2005.

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.

13. **CAL HSC Code 42301.6 California Code - Section 42301.6.** *Find Law.* **[Online] http://codes.lp.findlaw.com/cacode/HSC/1/d26/4/4/1/s42301.6.**

This page intentionally left blank

4   CERTIFICATIONS

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Goodman Logistics Center Fullerton Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

Haseeb Qureshi
Associate Principal
URBAN CROSSROADS, INC.
260 E. Baker, Suite 200
Costa Mesa, CA 92626
(949) 336-5987
hqureshi@urbanxroads.com

EDUCATION

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

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

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

PROFESSIONAL CERTIFICATIONS

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

URBAN
CROSSROADS

This page intentionally left blank

APPENDIX 2.1:

AERMOD MODEL INPUT/OUTPUT

URBAN
CROSSROADS

This page intentionally left blank

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 9.9.0
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 6/3/2020
** FILE: C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157 OPS HRA.ADI
**
**************************************
**
**
**************************************
** AERMOD CONTROL PATHWAY
**************************************
**
**
CO STARTING
   TITLEONE C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157 OPS HRA.ISC
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 3010232
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "13157 OPS HRA.ERR"
CO FINISHED
**
**************************************
** AERMOD SOURCE PATHWAY
**************************************
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** ---------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC ON-SITE IDLING BUILDING 1
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.0002212
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417049.581, 3747272.044, 55.13, 3.49, 4.00
** 417049.581, 3747034.002, 53.51, 3.49, 4.00
** ---------------------------------------------------------------------
```

```
   LOCATION L0001247      VOLUME      417049.581 3747267.749 54.99
   LOCATION L0001248      VOLUME      417049.581 3747259.159 54.98
   LOCATION L0001249      VOLUME      417049.581 3747250.569 54.97
   LOCATION L0001250      VOLUME      417049.581 3747241.979 54.96
   LOCATION L0001251      VOLUME      417049.581 3747233.389 54.94
   LOCATION L0001252      VOLUME      417049.581 3747224.799 54.93
   LOCATION L0001253      VOLUME      417049.581 3747216.209 54.92
   LOCATION L0001254      VOLUME      417049.581 3747207.619 54.91
   LOCATION L0001255      VOLUME      417049.581 3747199.029 54.90
   LOCATION L0001256      VOLUME      417049.581 3747190.439 54.89
   LOCATION L0001257      VOLUME      417049.581 3747181.849 54.87
   LOCATION L0001258      VOLUME      417049.581 3747173.259 54.81
   LOCATION L0001259      VOLUME      417049.581 3747164.669 54.73
   LOCATION L0001260      VOLUME      417049.581 3747156.079 54.65
   LOCATION L0001261      VOLUME      417049.581 3747147.489 54.57
   LOCATION L0001262      VOLUME      417049.581 3747138.899 54.49
   LOCATION L0001263      VOLUME      417049.581 3747130.309 54.41
   LOCATION L0001264      VOLUME      417049.581 3747121.719 54.33
   LOCATION L0001265      VOLUME      417049.581 3747113.129 54.25
   LOCATION L0001266      VOLUME      417049.581 3747104.539 54.16
   LOCATION L0001267      VOLUME      417049.581 3747095.949 54.08
   LOCATION L0001268      VOLUME      417049.581 3747087.359 54.00
   LOCATION L0001269      VOLUME      417049.581 3747078.769 53.99
   LOCATION L0001270      VOLUME      417049.581 3747070.179 53.98
   LOCATION L0001271      VOLUME      417049.581 3747061.589 53.97
   LOCATION L0001272      VOLUME      417049.581 3747052.999 53.96
   LOCATION L0001273      VOLUME      417049.581 3747044.409 53.95
   LOCATION L0001274      VOLUME      417049.581 3747035.819 53.94
** END OF LINE VOLUME SOURCE ID = SLINE1
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE2
** DESCRSRC ON-SITE IDLING BUILDING 2 (WEST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002529
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417125.322, 3747267.126, 55.49, 3.49, 4.00
** 417125.322, 3747029.083, 54.07, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001275      VOLUME      417125.322 3747262.831 55.77
   LOCATION L0001276      VOLUME      417125.322 3747254.241 55.69
   LOCATION L0001277      VOLUME      417125.322 3747245.651 55.61
   LOCATION L0001278      VOLUME      417125.322 3747237.061 55.53
   LOCATION L0001279      VOLUME      417125.322 3747228.471 55.45
   LOCATION L0001280      VOLUME      417125.322 3747219.881 55.37
   LOCATION L0001281      VOLUME      417125.322 3747211.291 55.30
```

```
   LOCATION L0001282     VOLUME    417125.322 3747202.701 55.22
   LOCATION L0001283     VOLUME    417125.322 3747194.111 55.14
   LOCATION L0001284     VOLUME    417125.322 3747185.521 55.06
   LOCATION L0001285     VOLUME    417125.322 3747176.931 55.00
   LOCATION L0001286     VOLUME    417125.322 3747168.341 54.98
   LOCATION L0001287     VOLUME    417125.322 3747159.751 54.97
   LOCATION L0001288     VOLUME    417125.322 3747151.161 54.96
   LOCATION L0001289     VOLUME    417125.322 3747142.571 54.94
   LOCATION L0001290     VOLUME    417125.322 3747133.981 54.93
   LOCATION L0001291     VOLUME    417125.322 3747125.391 54.92
   LOCATION L0001292     VOLUME    417125.322 3747116.801 54.91
   LOCATION L0001293     VOLUME    417125.322 3747108.211 54.89
   LOCATION L0001294     VOLUME    417125.322 3747099.621 54.88
   LOCATION L0001295     VOLUME    417125.322 3747091.031 54.87
   LOCATION L0001296     VOLUME    417125.322 3747082.441 54.83
   LOCATION L0001297     VOLUME    417125.322 3747073.851 54.75
   LOCATION L0001298     VOLUME    417125.322 3747065.261 54.67
   LOCATION L0001299     VOLUME    417125.322 3747056.671 54.59
   LOCATION L0001300     VOLUME    417125.322 3747048.081 54.51
   LOCATION L0001301     VOLUME    417125.322 3747039.491 54.43
   LOCATION L0001302     VOLUME    417125.322 3747030.901 54.35
** END OF LINE VOLUME SOURCE ID = SLINE2
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE3
** DESCRSRC ON-SITE IDLING BUILDING 2 (EAST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002529
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417298.532, 3747271.186, 56.00, 3.49, 4.00
** 417298.532, 3747033.143, 54.94, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001303     VOLUME    417298.532 3747266.891 56.00
   LOCATION L0001304     VOLUME    417298.532 3747258.301 56.00
   LOCATION L0001305     VOLUME    417298.532 3747249.711 56.00
   LOCATION L0001306     VOLUME    417298.532 3747241.121 56.00
   LOCATION L0001307     VOLUME    417298.532 3747232.531 56.00
   LOCATION L0001308     VOLUME    417298.532 3747223.941 56.00
   LOCATION L0001309     VOLUME    417298.532 3747215.351 56.00
   LOCATION L0001310     VOLUME    417298.532 3747206.761 56.00
   LOCATION L0001311     VOLUME    417298.532 3747198.171 56.00
   LOCATION L0001312     VOLUME    417298.532 3747189.581 56.00
   LOCATION L0001313     VOLUME    417298.532 3747180.991 56.00
   LOCATION L0001314     VOLUME    417298.532 3747172.401 55.95
   LOCATION L0001315     VOLUME    417298.532 3747163.811 55.87
   LOCATION L0001316     VOLUME    417298.532 3747155.221 55.78
```

```
   LOCATION L0001317      VOLUME     417298.532 3747146.631 55.70
   LOCATION L0001318      VOLUME     417298.532 3747138.041 55.62
   LOCATION L0001319      VOLUME     417298.532 3747129.451 55.53
   LOCATION L0001320      VOLUME     417298.532 3747120.861 55.45
   LOCATION L0001321      VOLUME     417298.532 3747112.271 55.37
   LOCATION L0001322      VOLUME     417298.532 3747103.681 55.29
   LOCATION L0001323      VOLUME     417298.532 3747095.091 55.21
   LOCATION L0001324      VOLUME     417298.532 3747086.501 55.12
   LOCATION L0001325      VOLUME     417298.532 3747077.911 55.10
   LOCATION L0001326      VOLUME     417298.532 3747069.321 55.09
   LOCATION L0001327      VOLUME     417298.532 3747060.731 55.08
   LOCATION L0001328      VOLUME     417298.532 3747052.141 55.07
   LOCATION L0001329      VOLUME     417298.532 3747043.551 55.06
   LOCATION L0001330      VOLUME     417298.532 3747034.961 55.05
** END OF LINE VOLUME SOURCE ID = SLINE3
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE4
** DESCRSRC ON-SITE IDLING BUILDING 3 (WEST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002529
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417385.236, 3747266.894, 56.07, 3.49, 4.00
** 417385.236, 3747028.851, 55.22, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001331      VOLUME     417385.236 3747262.599 56.22
   LOCATION L0001332      VOLUME     417385.236 3747254.009 56.22
   LOCATION L0001333      VOLUME     417385.236 3747245.419 56.22
   LOCATION L0001334      VOLUME     417385.236 3747236.829 56.22
   LOCATION L0001335      VOLUME     417385.236 3747228.239 56.22
   LOCATION L0001336      VOLUME     417385.236 3747219.649 56.22
   LOCATION L0001337      VOLUME     417385.236 3747211.059 56.22
   LOCATION L0001338      VOLUME     417385.236 3747202.469 56.22
   LOCATION L0001339      VOLUME     417385.236 3747193.879 56.22
   LOCATION L0001340      VOLUME     417385.236 3747185.289 56.22
   LOCATION L0001341      VOLUME     417385.236 3747176.699 56.23
   LOCATION L0001342      VOLUME     417385.236 3747168.109 56.21
   LOCATION L0001343      VOLUME     417385.236 3747159.519 56.19
   LOCATION L0001344      VOLUME     417385.236 3747150.929 56.16
   LOCATION L0001345      VOLUME     417385.236 3747142.339 56.14
   LOCATION L0001346      VOLUME     417385.236 3747133.749 56.12
   LOCATION L0001347      VOLUME     417385.236 3747125.159 56.10
   LOCATION L0001348      VOLUME     417385.236 3747116.569 56.08
   LOCATION L0001349      VOLUME     417385.236 3747107.979 56.06
   LOCATION L0001350      VOLUME     417385.236 3747099.389 56.04
   LOCATION L0001351      VOLUME     417385.236 3747090.799 56.02
```

```
    LOCATION L0001352      VOLUME     417385.236 3747082.209 55.98
    LOCATION L0001353      VOLUME     417385.236 3747073.619 55.91
    LOCATION L0001354      VOLUME     417385.236 3747065.029 55.84
    LOCATION L0001355      VOLUME     417385.236 3747056.439 55.77
    LOCATION L0001356      VOLUME     417385.236 3747047.849 55.70
    LOCATION L0001357      VOLUME     417385.236 3747039.259 55.63
    LOCATION L0001358      VOLUME     417385.236 3747030.669 55.56
** END OF LINE VOLUME SOURCE ID = SLINE4
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC ON-SITE IDLING BUILDING 3 (EAST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002529
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417558.643, 3747266.894, 58.00, 3.49, 4.00
** 417558.643, 3747028.851, 56.00, 3.49, 4.00
** ----------------------------------------------------------------------
    LOCATION L0001359      VOLUME     417558.643 3747262.599 57.94
    LOCATION L0001360      VOLUME     417558.643 3747254.009 57.85
    LOCATION L0001361      VOLUME     417558.643 3747245.419 57.76
    LOCATION L0001362      VOLUME     417558.643 3747236.829 57.67
    LOCATION L0001363      VOLUME     417558.643 3747228.239 57.57
    LOCATION L0001364      VOLUME     417558.643 3747219.649 57.48
    LOCATION L0001365      VOLUME     417558.643 3747211.059 57.39
    LOCATION L0001366      VOLUME     417558.643 3747202.469 57.29
    LOCATION L0001367      VOLUME     417558.643 3747193.879 57.20
    LOCATION L0001368      VOLUME     417558.643 3747185.289 57.11
    LOCATION L0001369      VOLUME     417558.643 3747176.699 57.01
    LOCATION L0001370      VOLUME     417558.643 3747168.109 57.00
    LOCATION L0001371      VOLUME     417558.643 3747159.519 57.00
    LOCATION L0001372      VOLUME     417558.643 3747150.929 57.00
    LOCATION L0001373      VOLUME     417558.643 3747142.339 57.00
    LOCATION L0001374      VOLUME     417558.643 3747133.749 57.00
    LOCATION L0001375      VOLUME     417558.643 3747125.159 57.00
    LOCATION L0001376      VOLUME     417558.643 3747116.569 57.00
    LOCATION L0001377      VOLUME     417558.643 3747107.979 57.00
    LOCATION L0001378      VOLUME     417558.643 3747099.389 57.00
    LOCATION L0001379      VOLUME     417558.643 3747090.799 57.00
    LOCATION L0001380      VOLUME     417558.643 3747082.209 56.99
    LOCATION L0001381      VOLUME     417558.643 3747073.619 56.90
    LOCATION L0001382      VOLUME     417558.643 3747065.029 56.81
    LOCATION L0001383      VOLUME     417558.643 3747056.439 56.71
    LOCATION L0001384      VOLUME     417558.643 3747047.849 56.62
    LOCATION L0001385      VOLUME     417558.643 3747039.259 56.53
    LOCATION L0001386      VOLUME     417558.643 3747030.669 56.43
```

```
** END OF LINE VOLUME SOURCE ID = SLINE5
** ---------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC ON-SITE IDLING BUILDING 4
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001196
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417617.581, 3747264.280, 57.88, 3.49, 4.00
** 417618.440, 3747157.832, 57.00, 3.49, 4.00
** ---------------------------------------------------------------------
   LOCATION L0001387     VOLUME     417617.616 3747259.985 57.92
   LOCATION L0001388     VOLUME     417617.685 3747251.395 57.83
   LOCATION L0001389     VOLUME     417617.755 3747242.805 57.74
   LOCATION L0001390     VOLUME     417617.824 3747234.216 57.64
   LOCATION L0001391     VOLUME     417617.893 3747225.626 57.55
   LOCATION L0001392     VOLUME     417617.962 3747217.036 57.46
   LOCATION L0001393     VOLUME     417618.032 3747208.446 57.36
   LOCATION L0001394     VOLUME     417618.101 3747199.857 57.27
   LOCATION L0001395     VOLUME     417618.170 3747191.267 57.18
   LOCATION L0001396     VOLUME     417618.240 3747182.677 57.09
   LOCATION L0001397     VOLUME     417618.309 3747174.087 57.00
   LOCATION L0001398     VOLUME     417618.378 3747165.498 57.00
** END OF LINE VOLUME SOURCE ID = SLINE6
** ---------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE7
** DESCRSRC ON-SITE TRAVEL BUILDING 1
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00005073
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417067.314, 3747329.522, 55.38, 3.49, 4.00
** 417064.738, 3746969.831, 53.44, 3.49, 4.00
** ---------------------------------------------------------------------
   LOCATION L0001399     VOLUME     417067.283 3747325.227 55.61
   LOCATION L0001400     VOLUME     417067.222 3747316.637 55.53
   LOCATION L0001401     VOLUME     417067.160 3747308.047 55.44
   LOCATION L0001402     VOLUME     417067.099 3747299.458 55.36
   LOCATION L0001403     VOLUME     417067.037 3747290.868 55.27
   LOCATION L0001404     VOLUME     417066.976 3747282.278 55.19
   LOCATION L0001405     VOLUME     417066.914 3747273.688 55.10
   LOCATION L0001406     VOLUME     417066.853 3747265.099 55.08
```

```
    LOCATION L0001407      VOLUME      417066.791 3747256.509 55.07
    LOCATION L0001408      VOLUME      417066.730 3747247.919 55.06
    LOCATION L0001409      VOLUME      417066.668 3747239.329 55.06
    LOCATION L0001410      VOLUME      417066.607 3747230.739 55.05
    LOCATION L0001411      VOLUME      417066.545 3747222.150 55.04
    LOCATION L0001412      VOLUME      417066.484 3747213.560 55.03
    LOCATION L0001413      VOLUME      417066.422 3747204.970 55.02
    LOCATION L0001414      VOLUME      417066.361 3747196.380 55.02
    LOCATION L0001415      VOLUME      417066.299 3747187.791 55.01
    LOCATION L0001416      VOLUME      417066.238 3747179.201 55.00
    LOCATION L0001417      VOLUME      417066.176 3747170.611 54.91
    LOCATION L0001418      VOLUME      417066.115 3747162.021 54.83
    LOCATION L0001419      VOLUME      417066.053 3747153.431 54.74
    LOCATION L0001420      VOLUME      417065.992 3747144.842 54.66
    LOCATION L0001421      VOLUME      417065.930 3747136.252 54.57
    LOCATION L0001422      VOLUME      417065.869 3747127.662 54.49
    LOCATION L0001423      VOLUME      417065.807 3747119.072 54.40
    LOCATION L0001424      VOLUME      417065.746 3747110.483 54.32
    LOCATION L0001425      VOLUME      417065.684 3747101.893 54.23
    LOCATION L0001426      VOLUME      417065.623 3747093.303 54.15
    LOCATION L0001427      VOLUME      417065.561 3747084.713 54.09
    LOCATION L0001428      VOLUME      417065.500 3747076.123 54.08
    LOCATION L0001429      VOLUME      417065.438 3747067.534 54.07
    LOCATION L0001430      VOLUME      417065.377 3747058.944 54.06
    LOCATION L0001431      VOLUME      417065.315 3747050.354 54.05
    LOCATION L0001432      VOLUME      417065.254 3747041.764 54.05
    LOCATION L0001433      VOLUME      417065.192 3747033.174 54.04
    LOCATION L0001434      VOLUME      417065.131 3747024.585 54.03
    LOCATION L0001435      VOLUME      417065.069 3747015.995 54.02
    LOCATION L0001436      VOLUME      417065.008 3747007.405 54.01
    LOCATION L0001437      VOLUME      417064.946 3746998.815 54.00
    LOCATION L0001438      VOLUME      417064.885 3746990.226 53.96
    LOCATION L0001439      VOLUME      417064.823 3746981.636 53.87
    LOCATION L0001440      VOLUME      417064.762 3746973.046 53.79
** END OF LINE VOLUME SOURCE ID = SLINE7
** -----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE8
** DESCRSRC ON-SITE TRAVEL BUILDING 2 (WEST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00005283
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 8
** 417123.113, 3747335.531, 55.86, 3.49, 4.00
** 417123.113, 3747320.937, 55.50, 3.49, 4.00
** 417111.953, 3747316.645, 55.48, 3.49, 4.00
** 417105.944, 3747302.051, 55.48, 3.49, 4.00
```

```
**  417105.944, 3746993.009, 54.02, 3.49, 4.00
**  417116.246, 3746990.433, 54.02, 3.49, 4.00
**  417120.538, 3746981.849, 54.02, 3.49, 4.00
**  417119.679, 3746976.698, 54.03, 3.49, 4.00
** -------------------------------------------------------------------
   LOCATION L0001441      VOLUME      417123.113 3747331.236 55.93
   LOCATION L0001442      VOLUME      417123.113 3747322.646 55.91
   LOCATION L0001443      VOLUME      417116.691 3747318.467 55.87
   LOCATION L0001444      VOLUME      417110.615 3747313.395 55.81
   LOCATION L0001445      VOLUME      417107.345 3747305.452 55.75
   LOCATION L0001446      VOLUME      417105.944 3747297.139 55.70
   LOCATION L0001447      VOLUME      417105.944 3747288.549 55.67
   LOCATION L0001448      VOLUME      417105.944 3747279.959 55.63
   LOCATION L0001449      VOLUME      417105.944 3747271.369 55.59
   LOCATION L0001450      VOLUME      417105.944 3747262.779 55.54
   LOCATION L0001451      VOLUME      417105.944 3747254.189 55.48
   LOCATION L0001452      VOLUME      417105.944 3747245.599 55.43
   LOCATION L0001453      VOLUME      417105.944 3747237.009 55.37
   LOCATION L0001454      VOLUME      417105.944 3747228.419 55.32
   LOCATION L0001455      VOLUME      417105.944 3747219.829 55.26
   LOCATION L0001456      VOLUME      417105.944 3747211.239 55.21
   LOCATION L0001457      VOLUME      417105.944 3747202.649 55.15
   LOCATION L0001458      VOLUME      417105.944 3747194.059 55.10
   LOCATION L0001459      VOLUME      417105.944 3747185.469 55.04
   LOCATION L0001460      VOLUME      417105.944 3747176.879 54.99
   LOCATION L0001461      VOLUME      417105.944 3747168.289 54.95
   LOCATION L0001462      VOLUME      417105.944 3747159.699 54.92
   LOCATION L0001463      VOLUME      417105.944 3747151.109 54.88
   LOCATION L0001464      VOLUME      417105.944 3747142.519 54.84
   LOCATION L0001465      VOLUME      417105.944 3747133.929 54.81
   LOCATION L0001466      VOLUME      417105.944 3747125.339 54.77
   LOCATION L0001467      VOLUME      417105.944 3747116.749 54.74
   LOCATION L0001468      VOLUME      417105.944 3747108.159 54.70
   LOCATION L0001469      VOLUME      417105.944 3747099.569 54.67
   LOCATION L0001470      VOLUME      417105.944 3747090.979 54.63
   LOCATION L0001471      VOLUME      417105.944 3747082.389 54.58
   LOCATION L0001472      VOLUME      417105.944 3747073.799 54.53
   LOCATION L0001473      VOLUME      417105.944 3747065.209 54.47
   LOCATION L0001474      VOLUME      417105.944 3747056.619 54.41
   LOCATION L0001475      VOLUME      417105.944 3747048.029 54.36
   LOCATION L0001476      VOLUME      417105.944 3747039.439 54.30
   LOCATION L0001477      VOLUME      417105.944 3747030.849 54.24
   LOCATION L0001478      VOLUME      417105.944 3747022.259 54.19
   LOCATION L0001479      VOLUME      417105.944 3747013.669 54.13
   LOCATION L0001480      VOLUME      417105.944 3747005.079 54.07
   LOCATION L0001481      VOLUME      417105.944 3746996.489 54.01
   LOCATION L0001482      VOLUME      417110.901 3746991.770 53.99
   LOCATION L0001483      VOLUME      417117.623 3746987.678 53.98
   LOCATION L0001484      VOLUME      417120.197 3746979.804 53.97
** END OF LINE VOLUME SOURCE ID = SLINE8
```

```
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE9
** DESCRSRC ON-SITE TRAVEL BUILDING 2 (EAST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001583
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417312.831, 3747333.814, 56.18, 3.49, 4.00
** 417312.831, 3746969.831, 54.31, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001485     VOLUME     417312.831 3747329.519 56.17
   LOCATION L0001486     VOLUME     417312.831 3747320.929 56.15
   LOCATION L0001487     VOLUME     417312.831 3747312.339 56.12
   LOCATION L0001488     VOLUME     417312.831 3747303.749 56.10
   LOCATION L0001489     VOLUME     417312.831 3747295.159 56.07
   LOCATION L0001490     VOLUME     417312.831 3747286.569 56.05
   LOCATION L0001491     VOLUME     417312.831 3747277.979 56.02
   LOCATION L0001492     VOLUME     417312.831 3747269.389 56.00
   LOCATION L0001493     VOLUME     417312.831 3747260.799 56.00
   LOCATION L0001494     VOLUME     417312.831 3747252.209 56.00
   LOCATION L0001495     VOLUME     417312.831 3747243.619 56.00
   LOCATION L0001496     VOLUME     417312.831 3747235.029 56.00
   LOCATION L0001497     VOLUME     417312.831 3747226.439 56.00
   LOCATION L0001498     VOLUME     417312.831 3747217.849 56.00
   LOCATION L0001499     VOLUME     417312.831 3747209.259 56.00
   LOCATION L0001500     VOLUME     417312.831 3747200.669 56.00
   LOCATION L0001501     VOLUME     417312.831 3747192.079 56.00
   LOCATION L0001502     VOLUME     417312.831 3747183.489 56.00
   LOCATION L0001503     VOLUME     417312.831 3747174.899 55.98
   LOCATION L0001504     VOLUME     417312.831 3747166.309 55.91
   LOCATION L0001505     VOLUME     417312.831 3747157.719 55.85
   LOCATION L0001506     VOLUME     417312.831 3747149.129 55.78
   LOCATION L0001507     VOLUME     417312.831 3747140.539 55.72
   LOCATION L0001508     VOLUME     417312.831 3747131.949 55.65
   LOCATION L0001509     VOLUME     417312.831 3747123.359 55.59
   LOCATION L0001510     VOLUME     417312.831 3747114.769 55.52
   LOCATION L0001511     VOLUME     417312.831 3747106.179 55.46
   LOCATION L0001512     VOLUME     417312.831 3747097.589 55.39
   LOCATION L0001513     VOLUME     417312.831 3747088.999 55.33
   LOCATION L0001514     VOLUME     417312.831 3747080.409 55.28
   LOCATION L0001515     VOLUME     417312.831 3747071.819 55.26
   LOCATION L0001516     VOLUME     417312.831 3747063.229 55.23
   LOCATION L0001517     VOLUME     417312.831 3747054.639 55.20
   LOCATION L0001518     VOLUME     417312.831 3747046.049 55.17
   LOCATION L0001519     VOLUME     417312.831 3747037.459 55.15
   LOCATION L0001520     VOLUME     417312.831 3747028.869 55.12
```

```
   LOCATION L0001521     VOLUME     417312.831 3747020.279 55.09
   LOCATION L0001522     VOLUME     417312.831 3747011.689 55.06
   LOCATION L0001523     VOLUME     417312.831 3747003.099 55.03
   LOCATION L0001524     VOLUME     417312.831 3746994.509 55.01
   LOCATION L0001525     VOLUME     417312.831 3746985.919 54.95
   LOCATION L0001526     VOLUME     417312.831 3746977.329 54.89
** END OF LINE VOLUME SOURCE ID = SLINE9
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE10
** DESCRSRC ON-SITE TRAVEL BUILDING 3 (WEST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001598
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417368.630, 3747336.390, 56.89, 3.49, 4.00
** 417370.347, 3746968.972, 54.71, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001527     VOLUME     417368.651 3747332.095 56.67
   LOCATION L0001528     VOLUME     417368.691 3747323.505 56.58
   LOCATION L0001529     VOLUME     417368.731 3747314.915 56.49
   LOCATION L0001530     VOLUME     417368.771 3747306.325 56.40
   LOCATION L0001531     VOLUME     417368.811 3747297.735 56.31
   LOCATION L0001532     VOLUME     417368.851 3747289.145 56.21
   LOCATION L0001533     VOLUME     417368.891 3747280.555 56.12
   LOCATION L0001534     VOLUME     417368.932 3747271.965 56.03
   LOCATION L0001535     VOLUME     417368.972 3747263.375 56.01
   LOCATION L0001536     VOLUME     417369.012 3747254.785 56.01
   LOCATION L0001537     VOLUME     417369.052 3747246.196 56.01
   LOCATION L0001538     VOLUME     417369.092 3747237.606 56.01
   LOCATION L0001539     VOLUME     417369.132 3747229.016 56.01
   LOCATION L0001540     VOLUME     417369.172 3747220.426 56.01
   LOCATION L0001541     VOLUME     417369.212 3747211.836 56.01
   LOCATION L0001542     VOLUME     417369.253 3747203.246 56.02
   LOCATION L0001543     VOLUME     417369.293 3747194.656 56.02
   LOCATION L0001544     VOLUME     417369.333 3747186.066 56.02
   LOCATION L0001545     VOLUME     417369.373 3747177.476 56.02
   LOCATION L0001546     VOLUME     417369.413 3747168.886 56.02
   LOCATION L0001547     VOLUME     417369.453 3747160.296 56.02
   LOCATION L0001548     VOLUME     417369.493 3747151.707 56.02
   LOCATION L0001549     VOLUME     417369.534 3747143.117 56.02
   LOCATION L0001550     VOLUME     417369.574 3747134.527 56.01
   LOCATION L0001551     VOLUME     417369.614 3747125.937 56.01
   LOCATION L0001552     VOLUME     417369.654 3747117.347 56.01
   LOCATION L0001553     VOLUME     417369.694 3747108.757 56.01
   LOCATION L0001554     VOLUME     417369.734 3747100.167 56.01
   LOCATION L0001555     VOLUME     417369.774 3747091.577 56.00
```

```
   LOCATION L0001556    VOLUME     417369.815 3747082.987 55.98
   LOCATION L0001557    VOLUME     417369.855 3747074.397 55.89
   LOCATION L0001558    VOLUME     417369.895 3747065.807 55.81
   LOCATION L0001559    VOLUME     417369.935 3747057.218 55.72
   LOCATION L0001560    VOLUME     417369.975 3747048.628 55.63
   LOCATION L0001561    VOLUME     417370.015 3747040.038 55.54
   LOCATION L0001562    VOLUME     417370.055 3747031.448 55.45
   LOCATION L0001563    VOLUME     417370.096 3747022.858 55.36
   LOCATION L0001564    VOLUME     417370.136 3747014.268 55.28
   LOCATION L0001565    VOLUME     417370.176 3747005.678 55.19
   LOCATION L0001566    VOLUME     417370.216 3746997.088 55.10
   LOCATION L0001567    VOLUME     417370.256 3746988.498 55.05
   LOCATION L0001568    VOLUME     417370.296 3746979.908 55.05
   LOCATION L0001569    VOLUME     417370.336 3746971.319 55.04
** END OF LINE VOLUME SOURCE ID = SLINE10
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE11
** DESCRSRC ON-SITE TRAVEL BUILDING 3 (EAST SIDE)
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001615
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 6
** 417587.536, 3747336.390, 58.00, 3.49, 4.00
** 417588.394, 3747312.353, 57.83, 3.49, 4.00
** 417580.668, 3747307.202, 57.85, 3.49, 4.00
** 417578.093, 3747302.051, 57.87, 3.49, 4.00
** 417574.659, 3747253.120, 57.92, 3.49, 4.00
** 417575.517, 3746969.831, 55.87, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001570    VOLUME     417587.689 3747332.097 58.00
   LOCATION L0001571    VOLUME     417587.996 3747323.513 58.00
   LOCATION L0001572    VOLUME     417588.302 3747314.928 58.00
   LOCATION L0001573    VOLUME     417583.391 3747309.017 58.00
   LOCATION L0001574    VOLUME     417578.290 3747302.446 58.00
   LOCATION L0001575    VOLUME     417577.522 3747293.923 58.00
   LOCATION L0001576    VOLUME     417576.921 3747285.354 58.00
   LOCATION L0001577    VOLUME     417576.320 3747276.785 58.00
   LOCATION L0001578    VOLUME     417575.718 3747268.216 58.00
   LOCATION L0001579    VOLUME     417575.117 3747259.647 57.91
   LOCATION L0001580    VOLUME     417574.665 3747251.073 57.82
   LOCATION L0001581    VOLUME     417574.691 3747242.483 57.73
   LOCATION L0001582    VOLUME     417574.717 3747233.893 57.64
   LOCATION L0001583    VOLUME     417574.743 3747225.303 57.54
   LOCATION L0001584    VOLUME     417574.769 3747216.713 57.45
   LOCATION L0001585    VOLUME     417574.795 3747208.123 57.36
   LOCATION L0001586    VOLUME     417574.821 3747199.533 57.26
```

```
    LOCATION L0001587      VOLUME    417574.847 3747190.943 57.17
    LOCATION L0001588      VOLUME    417574.873 3747182.353 57.08
    LOCATION L0001589      VOLUME    417574.899 3747173.763 57.00
    LOCATION L0001590      VOLUME    417574.925 3747165.173 57.00
    LOCATION L0001591      VOLUME    417574.951 3747156.583 57.00
    LOCATION L0001592      VOLUME    417574.977 3747147.993 57.00
    LOCATION L0001593      VOLUME    417575.003 3747139.404 57.00
    LOCATION L0001594      VOLUME    417575.030 3747130.814 57.00
    LOCATION L0001595      VOLUME    417575.056 3747122.224 57.00
    LOCATION L0001596      VOLUME    417575.082 3747113.634 57.00
    LOCATION L0001597      VOLUME    417575.108 3747105.044 57.00
    LOCATION L0001598      VOLUME    417575.134 3747096.454 57.00
    LOCATION L0001599      VOLUME    417575.160 3747087.864 57.00
    LOCATION L0001600      VOLUME    417575.186 3747079.274 56.96
    LOCATION L0001601      VOLUME    417575.212 3747070.684 56.87
    LOCATION L0001602      VOLUME    417575.238 3747062.094 56.78
    LOCATION L0001603      VOLUME    417575.264 3747053.504 56.68
    LOCATION L0001604      VOLUME    417575.290 3747044.914 56.59
    LOCATION L0001605      VOLUME    417575.316 3747036.324 56.50
    LOCATION L0001606      VOLUME    417575.342 3747027.734 56.40
    LOCATION L0001607      VOLUME    417575.368 3747019.144 56.31
    LOCATION L0001608      VOLUME    417575.394 3747010.554 56.22
    LOCATION L0001609      VOLUME    417575.420 3747001.964 56.13
    LOCATION L0001610      VOLUME    417575.446 3746993.374 56.03
    LOCATION L0001611      VOLUME    417575.472 3746984.784 56.00
    LOCATION L0001612      VOLUME    417575.498 3746976.194 56.00
** END OF LINE VOLUME SOURCE ID = SLINE11
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE12
** DESCRSRC ON-SITE TRAVEL BUILDING 4
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 6.962E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 8
** 417589.253, 3747336.390, 58.00, 3.49, 4.00
** 417587.536, 3747315.787, 57.82, 3.49, 4.00
** 417596.120, 3747306.344, 57.84, 3.49, 4.00
** 417599.554, 3747295.184, 57.85, 3.49, 4.00
** 417602.988, 3747223.074, 57.00, 3.49, 4.00
** 417601.271, 3747111.475, 56.92, 3.49, 4.00
** 417608.997, 3747103.749, 56.91, 3.49, 4.00
** 417707.719, 3747106.324, 56.94, 3.49, 4.00
** ----------------------------------------------------------------------
    LOCATION L0001613      VOLUME    417588.896 3747332.109 58.00
    LOCATION L0001614      VOLUME    417588.183 3747323.549 58.00
    LOCATION L0001615      VOLUME    417588.074 3747315.194 58.00
```

```
    LOCATION L0001616      VOLUME     417593.853 3747308.838 58.00
    LOCATION L0001617      VOLUME     417597.655 3747301.356 58.00
    LOCATION L0001618      VOLUME     417599.655 3747293.054 58.00
    LOCATION L0001619      VOLUME     417600.064 3747284.473 58.00
    LOCATION L0001620      VOLUME     417600.473 3747275.893 58.00
    LOCATION L0001621      VOLUME     417600.881 3747267.313 58.00
    LOCATION L0001622      VOLUME     417601.290 3747258.732 57.91
    LOCATION L0001623      VOLUME     417601.698 3747250.152 57.81
    LOCATION L0001624      VOLUME     417602.107 3747241.572 57.72
    LOCATION L0001625      VOLUME     417602.516 3747232.992 57.63
    LOCATION L0001626      VOLUME     417602.924 3747224.411 57.54
    LOCATION L0001627      VOLUME     417602.876 3747215.824 57.44
    LOCATION L0001628      VOLUME     417602.744 3747207.235 57.35
    LOCATION L0001629      VOLUME     417602.612 3747198.646 57.26
    LOCATION L0001630      VOLUME     417602.480 3747190.057 57.16
    LOCATION L0001631      VOLUME     417602.348 3747181.468 57.07
    LOCATION L0001632      VOLUME     417602.216 3747172.879 57.00
    LOCATION L0001633      VOLUME     417602.083 3747164.290 57.00
    LOCATION L0001634      VOLUME     417601.951 3747155.701 57.00
    LOCATION L0001635      VOLUME     417601.819 3747147.112 57.00
    LOCATION L0001636      VOLUME     417601.687 3747138.523 57.00
    LOCATION L0001637      VOLUME     417601.555 3747129.934 57.00
    LOCATION L0001638      VOLUME     417601.423 3747121.345 57.00
    LOCATION L0001639      VOLUME     417601.291 3747112.756 57.00
    LOCATION L0001640      VOLUME     417606.439 3747106.307 57.00
    LOCATION L0001641      VOLUME     417613.968 3747103.879 57.00
    LOCATION L0001642      VOLUME     417622.555 3747104.103 57.00
    LOCATION L0001643      VOLUME     417631.142 3747104.327 57.00
    LOCATION L0001644      VOLUME     417639.729 3747104.551 57.00
    LOCATION L0001645      VOLUME     417648.316 3747104.775 57.00
    LOCATION L0001646      VOLUME     417656.903 3747104.999 57.00
    LOCATION L0001647      VOLUME     417665.491 3747105.223 57.00
    LOCATION L0001648      VOLUME     417674.078 3747105.447 57.00
    LOCATION L0001649      VOLUME     417682.665 3747105.671 57.00
    LOCATION L0001650      VOLUME     417691.252 3747105.895 57.00
    LOCATION L0001651      VOLUME     417699.839 3747106.119 57.00
** END OF LINE VOLUME SOURCE ID = SLINE12
** ------------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE13
** DESCRSRC OFF-SITE TRAVEL 10% ON ACACIA AV.
** PREFIX
** LENGTH OF SIDE = 22.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 7.818E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 416919.660, 3747353.559, 54.96, 3.49, 10.23
** 416920.519, 3746975.840, 53.03, 3.49, 10.23
```

```
** --------------------------------------------------------------------------
   LOCATION L0001652      VOLUME      416919.685 3747342.559 54.79
   LOCATION L0001653      VOLUME      416919.735 3747320.559 54.60
   LOCATION L0001654      VOLUME      416919.785 3747298.559 54.40
   LOCATION L0001655      VOLUME      416919.835 3747276.559 54.21
   LOCATION L0001656      VOLUME      416919.885 3747254.559 54.14
   LOCATION L0001657      VOLUME      416919.935 3747232.559 54.10
   LOCATION L0001658      VOLUME      416919.985 3747210.559 54.06
   LOCATION L0001659      VOLUME      416920.035 3747188.559 54.02
   LOCATION L0001660      VOLUME      416920.085 3747166.559 53.87
   LOCATION L0001661      VOLUME      416920.135 3747144.559 53.68
   LOCATION L0001662      VOLUME      416920.185 3747122.559 53.49
   LOCATION L0001663      VOLUME      416920.235 3747100.559 53.31
   LOCATION L0001664      VOLUME      416920.285 3747078.559 53.18
   LOCATION L0001665      VOLUME      416920.335 3747056.559 53.14
   LOCATION L0001666      VOLUME      416920.385 3747034.559 53.09
   LOCATION L0001667      VOLUME      416920.435 3747012.559 53.04
   LOCATION L0001668      VOLUME      416920.485 3746990.559 53.00
** END OF LINE VOLUME SOURCE ID = SLINE13
** --------------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE14
** DESCRSRC OFF-SITE TRAVEL 30% ON KIMBERLY AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00004793
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 416934.254, 3747350.125, 54.91, 3.49, 4.00
** 417706.002, 3747345.832, 58.00, 3.49, 4.00
** --------------------------------------------------------------------------
   LOCATION L0001669      VOLUME      416938.549 3747350.101 54.90
   LOCATION L0001670      VOLUME      416947.139 3747350.053 54.92
   LOCATION L0001671      VOLUME      416955.728 3747350.005 54.94
   LOCATION L0001672      VOLUME      416964.318 3747349.958 54.96
   LOCATION L0001673      VOLUME      416972.908 3747349.910 54.98
   LOCATION L0001674      VOLUME      416981.498 3747349.862 54.99
   LOCATION L0001675      VOLUME      416990.088 3747349.814 55.07
   LOCATION L0001676      VOLUME      416998.678 3747349.766 55.16
   LOCATION L0001677      VOLUME      417007.268 3747349.719 55.25
   LOCATION L0001678      VOLUME      417015.858 3747349.671 55.35
   LOCATION L0001679      VOLUME      417024.447 3747349.623 55.44
   LOCATION L0001680      VOLUME      417033.037 3747349.575 55.53
   LOCATION L0001681      VOLUME      417041.627 3747349.528 55.63
   LOCATION L0001682      VOLUME      417050.217 3747349.480 55.72
   LOCATION L0001683      VOLUME      417058.807 3747349.432 55.81
   LOCATION L0001684      VOLUME      417067.397 3747349.384 55.85
   LOCATION L0001685      VOLUME      417075.987 3747349.336 55.87
```

```
LOCATION L0001686      VOLUME      417084.576 3747349.289 55.89
LOCATION L0001687      VOLUME      417093.166 3747349.241 55.91
LOCATION L0001688      VOLUME      417101.756 3747349.193 55.92
LOCATION L0001689      VOLUME      417110.346 3747349.145 55.94
LOCATION L0001690      VOLUME      417118.936 3747349.098 55.96
LOCATION L0001691      VOLUME      417127.526 3747349.050 55.98
LOCATION L0001692      VOLUME      417136.116 3747349.002 56.00
LOCATION L0001693      VOLUME      417144.706 3747348.954 56.00
LOCATION L0001694      VOLUME      417153.295 3747348.906 56.00
LOCATION L0001695      VOLUME      417161.885 3747348.859 56.00
LOCATION L0001696      VOLUME      417170.475 3747348.811 56.00
LOCATION L0001697      VOLUME      417179.065 3747348.763 56.00
LOCATION L0001698      VOLUME      417187.655 3747348.715 56.00
LOCATION L0001699      VOLUME      417196.245 3747348.668 56.00
LOCATION L0001700      VOLUME      417204.835 3747348.620 56.00
LOCATION L0001701      VOLUME      417213.424 3747348.572 56.00
LOCATION L0001702      VOLUME      417222.014 3747348.524 56.00
LOCATION L0001703      VOLUME      417230.604 3747348.477 56.00
LOCATION L0001704      VOLUME      417239.194 3747348.429 56.00
LOCATION L0001705      VOLUME      417247.784 3747348.381 56.00
LOCATION L0001706      VOLUME      417256.374 3747348.333 56.00
LOCATION L0001707      VOLUME      417264.964 3747348.285 56.00
LOCATION L0001708      VOLUME      417273.554 3747348.238 56.00
LOCATION L0001709      VOLUME      417282.143 3747348.190 56.00
LOCATION L0001710      VOLUME      417290.733 3747348.142 56.00
LOCATION L0001711      VOLUME      417299.323 3747348.094 56.08
LOCATION L0001712      VOLUME      417307.913 3747348.047 56.17
LOCATION L0001713      VOLUME      417316.503 3747347.999 56.27
LOCATION L0001714      VOLUME      417325.093 3747347.951 56.36
LOCATION L0001715      VOLUME      417333.683 3747347.903 56.46
LOCATION L0001716      VOLUME      417342.273 3747347.855 56.55
LOCATION L0001717      VOLUME      417350.862 3747347.808 56.64
LOCATION L0001718      VOLUME      417359.452 3747347.760 56.74
LOCATION L0001719      VOLUME      417368.042 3747347.712 56.83
LOCATION L0001720      VOLUME      417376.632 3747347.664 56.94
LOCATION L0001721      VOLUME      417385.222 3747347.617 57.05
LOCATION L0001722      VOLUME      417393.812 3747347.569 57.17
LOCATION L0001723      VOLUME      417402.402 3747347.521 57.28
LOCATION L0001724      VOLUME      417410.991 3747347.473 57.39
LOCATION L0001725      VOLUME      417419.581 3747347.425 57.50
LOCATION L0001726      VOLUME      417428.171 3747347.378 57.61
LOCATION L0001727      VOLUME      417436.761 3747347.330 57.72
LOCATION L0001728      VOLUME      417445.351 3747347.282 57.84
LOCATION L0001729      VOLUME      417453.941 3747347.234 57.87
LOCATION L0001730      VOLUME      417462.531 3747347.187 57.88
LOCATION L0001731      VOLUME      417471.121 3747347.139 57.90
LOCATION L0001732      VOLUME      417479.710 3747347.091 57.92
LOCATION L0001733      VOLUME      417488.300 3747347.043 57.93
LOCATION L0001734      VOLUME      417496.890 3747346.996 57.95
LOCATION L0001735      VOLUME      417505.480 3747346.948 57.97
```

```
   LOCATION L0001736      VOLUME    417514.070 3747346.900 57.98
   LOCATION L0001737      VOLUME    417522.660 3747346.852 58.00
   LOCATION L0001738      VOLUME    417531.250 3747346.804 58.00
   LOCATION L0001739      VOLUME    417539.839 3747346.757 58.00
   LOCATION L0001740      VOLUME    417548.429 3747346.709 58.00
   LOCATION L0001741      VOLUME    417557.019 3747346.661 58.00
   LOCATION L0001742      VOLUME    417565.609 3747346.613 58.00
   LOCATION L0001743      VOLUME    417574.199 3747346.566 58.00
   LOCATION L0001744      VOLUME    417582.789 3747346.518 58.00
   LOCATION L0001745      VOLUME    417591.379 3747346.470 58.00
   LOCATION L0001746      VOLUME    417599.969 3747346.422 58.00
   LOCATION L0001747      VOLUME    417608.558 3747346.374 58.00
   LOCATION L0001748      VOLUME    417617.148 3747346.327 58.00
   LOCATION L0001749      VOLUME    417625.738 3747346.279 58.00
   LOCATION L0001750      VOLUME    417634.328 3747346.231 58.00
   LOCATION L0001751      VOLUME    417642.918 3747346.183 58.00
   LOCATION L0001752      VOLUME    417651.508 3747346.136 58.00
   LOCATION L0001753      VOLUME    417660.098 3747346.088 58.00
   LOCATION L0001754      VOLUME    417668.687 3747346.040 58.00
   LOCATION L0001755      VOLUME    417677.277 3747345.992 58.00
   LOCATION L0001756      VOLUME    417685.867 3747345.944 58.00
   LOCATION L0001757      VOLUME    417694.457 3747345.897 58.00
   LOCATION L0001758      VOLUME    417703.047 3747345.849 58.00
** END OF LINE VOLUME SOURCE ID = SLINE14
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE15
** DESCRSRC OFF-SITE TRAVEL 30% ORANGETHORPE AV.
** PREFIX
** LENGTH OF SIDE = 22.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00004772
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 416939.405, 3746957.812, 53.00, 3.49, 10.23
** 417707.719, 3746948.369, 56.00, 3.49, 10.23
** ----------------------------------------------------------------------
   LOCATION L0001759      VOLUME    416950.404 3746957.677 53.00
   LOCATION L0001760      VOLUME    416972.402 3746957.407 53.00
   LOCATION L0001761      VOLUME    416994.400 3746957.136 53.11
   LOCATION L0001762      VOLUME    417016.399 3746956.866 53.27
   LOCATION L0001763      VOLUME    417038.397 3746956.596 53.44
   LOCATION L0001764      VOLUME    417060.395 3746956.325 53.60
   LOCATION L0001765      VOLUME    417082.394 3746956.055 53.72
   LOCATION L0001766      VOLUME    417104.392 3746955.784 53.84
   LOCATION L0001767      VOLUME    417126.390 3746955.514 53.96
   LOCATION L0001768      VOLUME    417148.389 3746955.244 54.10
   LOCATION L0001769      VOLUME    417170.387 3746954.973 54.27
   LOCATION L0001770      VOLUME    417192.385 3746954.703 54.43
```

```
    LOCATION L0001771      VOLUME     417214.384 3746954.433 54.58
    LOCATION L0001772      VOLUME     417236.382 3746954.162 54.58
    LOCATION L0001773      VOLUME     417258.380 3746953.892 54.58
    LOCATION L0001774      VOLUME     417280.379 3746953.622 54.57
    LOCATION L0001775      VOLUME     417302.377 3746953.351 54.65
    LOCATION L0001776      VOLUME     417324.375 3746953.081 54.77
    LOCATION L0001777      VOLUME     417346.374 3746952.810 54.89
    LOCATION L0001778      VOLUME     417368.372 3746952.540 55.02
    LOCATION L0001779      VOLUME     417390.370 3746952.270 55.18
    LOCATION L0001780      VOLUME     417412.369 3746951.999 55.34
    LOCATION L0001781      VOLUME     417434.367 3746951.729 55.51
    LOCATION L0001782      VOLUME     417456.365 3746951.459 55.64
    LOCATION L0001783      VOLUME     417478.364 3746951.188 55.77
    LOCATION L0001784      VOLUME     417500.362 3746950.918 55.89
    LOCATION L0001785      VOLUME     417522.360 3746950.647 56.00
    LOCATION L0001786      VOLUME     417544.359 3746950.377 56.00
    LOCATION L0001787      VOLUME     417566.357 3746950.107 56.00
    LOCATION L0001788      VOLUME     417588.356 3746949.836 56.00
    LOCATION L0001789      VOLUME     417610.354 3746949.566 56.00
    LOCATION L0001790      VOLUME     417632.352 3746949.296 56.00
    LOCATION L0001791      VOLUME     417654.351 3746949.025 56.00
    LOCATION L0001792      VOLUME     417676.349 3746948.755 56.00
    LOCATION L0001793      VOLUME     417698.347 3746948.484 56.00
** END OF LINE VOLUME SOURCE ID = SLINE15
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE16
** DESCRSRC OFF-SITE TRAVEL 30% N. STATE COLLEGE BLVD.
** PREFIX
** LENGTH OF SIDE = 22.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002357
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 417724.030, 3747349.266, 58.00, 3.49, 10.23
** 417728.322, 3746969.831, 56.00, 3.49, 10.23
** ----------------------------------------------------------------------
    LOCATION L0001794      VOLUME     417724.154 3747338.267 58.00
    LOCATION L0001795      VOLUME     417724.403 3747316.268 58.00
    LOCATION L0001796      VOLUME     417724.652 3747294.270 58.00
    LOCATION L0001797      VOLUME     417724.901 3747272.271 58.00
    LOCATION L0001798      VOLUME     417725.149 3747250.273 57.83
    LOCATION L0001799      VOLUME     417725.398 3747228.274 57.59
    LOCATION L0001800      VOLUME     417725.647 3747206.275 57.35
    LOCATION L0001801      VOLUME     417725.896 3747184.277 57.11
    LOCATION L0001802      VOLUME     417726.145 3747162.278 57.00
    LOCATION L0001803      VOLUME     417726.394 3747140.280 57.00
    LOCATION L0001804      VOLUME     417726.642 3747118.281 57.00
    LOCATION L0001805      VOLUME     417726.891 3747096.282 57.00
```

```
    LOCATION L0001806      VOLUME     417727.140 3747074.284 56.92
    LOCATION L0001807      VOLUME     417727.389 3747052.285 56.68
    LOCATION L0001808      VOLUME     417727.638 3747030.287 56.45
    LOCATION L0001809      VOLUME     417727.887 3747008.288 56.21
    LOCATION L0001810      VOLUME     417728.136 3746986.290 56.00
 ** END OF LINE VOLUME SOURCE ID = SLINE16
 ** -------------------------------------------------------------------------
 ** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
 ** LINE VOLUME SOURCE ID = SLINE17
 ** DESCRSRC OFF-SITE TRAVEL 55% SOUTH ON N. STATE COLLEGE BLVD. TO SR-91
 ** PREFIX
 ** LENGTH OF SIDE = 22.00
 ** CONFIGURATION = ADJACENT
 ** EMISSION RATE = 0.00006743
 ** VERTICAL DIMENSION = 6.99
 ** SZINIT = 3.25
 ** NODES = 2
 ** 417727.463, 3746965.538, 56.00, 3.49, 10.23
 ** 417730.039, 3746373.207, 54.00, 3.49, 10.23
 ** -------------------------------------------------------------------------
    LOCATION L0001811      VOLUME     417727.511 3746954.538 56.00
    LOCATION L0001812      VOLUME     417727.607 3746932.539 56.00
    LOCATION L0001813      VOLUME     417727.702 3746910.539 56.00
    LOCATION L0001814      VOLUME     417727.798 3746888.539 56.00
    LOCATION L0001815      VOLUME     417727.894 3746866.539 56.00
    LOCATION L0001816      VOLUME     417727.989 3746844.539 56.00
    LOCATION L0001817      VOLUME     417728.085 3746822.540 56.00
    LOCATION L0001818      VOLUME     417728.181 3746800.540 55.96
    LOCATION L0001819      VOLUME     417728.276 3746778.540 55.72
    LOCATION L0001820      VOLUME     417728.372 3746756.540 55.48
    LOCATION L0001821      VOLUME     417728.468 3746734.541 55.25
    LOCATION L0001822      VOLUME     417728.563 3746712.541 55.01
    LOCATION L0001823      VOLUME     417728.659 3746690.541 55.00
    LOCATION L0001824      VOLUME     417728.755 3746668.541 55.00
    LOCATION L0001825      VOLUME     417728.850 3746646.541 55.00
    LOCATION L0001826      VOLUME     417728.946 3746624.542 55.00
    LOCATION L0001827      VOLUME     417729.042 3746602.542 55.00
    LOCATION L0001828      VOLUME     417729.137 3746580.542 55.00
    LOCATION L0001829      VOLUME     417729.233 3746558.542 55.00
    LOCATION L0001830      VOLUME     417729.329 3746536.542 55.00
    LOCATION L0001831      VOLUME     417729.424 3746514.543 54.87
    LOCATION L0001832      VOLUME     417729.520 3746492.543 54.63
    LOCATION L0001833      VOLUME     417729.615 3746470.543 54.39
    LOCATION L0001834      VOLUME     417729.711 3746448.543 54.15
    LOCATION L0001835      VOLUME     417729.807 3746426.543 54.00
    LOCATION L0001836      VOLUME     417729.902 3746404.544 54.00
    LOCATION L0001837      VOLUME     417729.998 3746382.544 54.00
 ** END OF LINE VOLUME SOURCE ID = SLINE17
 ** -------------------------------------------------------------------------
 ** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
```

```
** LINE VOLUME SOURCE ID = SLINE18
** DESCRSRC OFF-SITE TRAVEL 30% EAST ON ORANGETHORPE TO SR-57
** PREFIX
** LENGTH OF SIDE = 22.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00006836
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 417747.208, 3746952.662, 56.00, 3.49, 10.23
** 418283.740, 3746949.228, 57.95, 3.49, 10.23
** 418342.973, 3746970.689, 58.81, 3.49, 10.23
** 418564.454, 3747040.224, 60.62, 3.49, 10.23
** 418821.989, 3747118.343, 61.41, 3.49, 10.23
** -----------------------------------------------------------------
   LOCATION L0001838     VOLUME     417758.207 3746952.591 56.05
   LOCATION L0001839     VOLUME     417780.207 3746952.450 56.23
   LOCATION L0001840     VOLUME     417802.207 3746952.310 56.40
   LOCATION L0001841     VOLUME     417824.206 3746952.169 56.58
   LOCATION L0001842     VOLUME     417846.206 3746952.028 56.70
   LOCATION L0001843     VOLUME     417868.205 3746951.887 56.81
   LOCATION L0001844     VOLUME     417890.205 3746951.746 56.92
   LOCATION L0001845     VOLUME     417912.204 3746951.606 57.00
   LOCATION L0001846     VOLUME     417934.204 3746951.465 57.00
   LOCATION L0001847     VOLUME     417956.203 3746951.324 57.00
   LOCATION L0001848     VOLUME     417978.203 3746951.183 57.00
   LOCATION L0001849     VOLUME     418000.203 3746951.042 57.00
   LOCATION L0001850     VOLUME     418022.202 3746950.902 57.00
   LOCATION L0001851     VOLUME     418044.202 3746950.761 57.00
   LOCATION L0001852     VOLUME     418066.201 3746950.620 57.00
   LOCATION L0001853     VOLUME     418088.201 3746950.479 57.00
   LOCATION L0001854     VOLUME     418110.200 3746950.338 57.00
   LOCATION L0001855     VOLUME     418132.200 3746950.198 57.00
   LOCATION L0001856     VOLUME     418154.199 3746950.057 57.14
   LOCATION L0001857     VOLUME     418176.199 3746949.916 57.32
   LOCATION L0001858     VOLUME     418198.198 3746949.775 57.49
   LOCATION L0001859     VOLUME     418220.198 3746949.634 57.65
   LOCATION L0001860     VOLUME     418242.198 3746949.494 57.76
   LOCATION L0001861     VOLUME     418264.197 3746949.353 57.87
   LOCATION L0001862     VOLUME     418286.050 3746950.065 57.98
   LOCATION L0001863     VOLUME     418306.734 3746957.559 58.20
   LOCATION L0001864     VOLUME     418327.418 3746965.053 58.47
   LOCATION L0001865     VOLUME     418348.178 3746972.323 58.74
   LOCATION L0001866     VOLUME     418369.168 3746978.913 59.00
   LOCATION L0001867     VOLUME     418390.158 3746985.503 59.00
   LOCATION L0001868     VOLUME     418411.148 3746992.093 59.00
   LOCATION L0001869     VOLUME     418432.138 3746998.682 59.00
   LOCATION L0001870     VOLUME     418453.127 3747005.272 59.19
   LOCATION L0001871     VOLUME     418474.117 3747011.862 59.74
   LOCATION L0001872     VOLUME     418495.107 3747018.452 60.28
```

```
   LOCATION L0001873      VOLUME     418516.097 3747025.042 60.82
   LOCATION L0001874      VOLUME     418537.087 3747031.632 61.00
   LOCATION L0001875      VOLUME     418558.077 3747038.221 61.00
   LOCATION L0001876      VOLUME     418579.110 3747044.669 61.00
   LOCATION L0001877      VOLUME     418600.163 3747051.055 61.00
   LOCATION L0001878      VOLUME     418621.216 3747057.441 61.00
   LOCATION L0001879      VOLUME     418642.269 3747063.827 61.00
   LOCATION L0001880      VOLUME     418663.321 3747070.213 61.00
   LOCATION L0001881      VOLUME     418684.374 3747076.599 61.04
   LOCATION L0001882      VOLUME     418705.427 3747082.985 61.11
   LOCATION L0001883      VOLUME     418726.480 3747089.371 61.18
   LOCATION L0001884      VOLUME     418747.533 3747095.757 61.25
   LOCATION L0001885      VOLUME     418768.585 3747102.143 61.32
   LOCATION L0001886      VOLUME     418789.638 3747108.529 61.39
   LOCATION L0001887      VOLUME     418810.691 3747114.915 61.46
** END OF LINE VOLUME SOURCE ID = SLINE18
** -------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE19
** DESCRSRC OFF-SITE TRAVEL 10% ON ORANGETHORPE TO RAYMOND
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001686
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 416932.537, 3746956.954, 53.00, 3.49, 4.00
** 416117.866, 3746953.520, 49.72, 3.49, 4.00
** -------------------------------------------------------------------
   LOCATION L0001888      VOLUME     416928.242 3746956.936 53.00
   LOCATION L0001889      VOLUME     416919.652 3746956.899 53.00
   LOCATION L0001890      VOLUME     416911.062 3746956.863 53.00
   LOCATION L0001891      VOLUME     416902.472 3746956.827 53.00
   LOCATION L0001892      VOLUME     416893.882 3746956.791 53.00
   LOCATION L0001893      VOLUME     416885.292 3746956.755 53.00
   LOCATION L0001894      VOLUME     416876.702 3746956.718 53.00
   LOCATION L0001895      VOLUME     416868.112 3746956.682 53.00
   LOCATION L0001896      VOLUME     416859.523 3746956.646 53.00
   LOCATION L0001897      VOLUME     416850.933 3746956.610 53.00
   LOCATION L0001898      VOLUME     416842.343 3746956.574 53.00
   LOCATION L0001899      VOLUME     416833.753 3746956.537 53.00
   LOCATION L0001900      VOLUME     416825.163 3746956.501 53.00
   LOCATION L0001901      VOLUME     416816.573 3746956.465 53.00
   LOCATION L0001902      VOLUME     416807.983 3746956.429 53.00
   LOCATION L0001903      VOLUME     416799.393 3746956.393 53.00
   LOCATION L0001904      VOLUME     416790.803 3746956.356 53.00
   LOCATION L0001905      VOLUME     416782.213 3746956.320 53.00
   LOCATION L0001906      VOLUME     416773.623 3746956.284 53.00
   LOCATION L0001907      VOLUME     416765.033 3746956.248 53.00
```

```
LOCATION  L0001908      VOLUME      416756.443 3746956.212 53.00
LOCATION  L0001909      VOLUME      416747.854 3746956.175 52.99
LOCATION  L0001910      VOLUME      416739.264 3746956.139 52.94
LOCATION  L0001911      VOLUME      416730.674 3746956.103 52.89
LOCATION  L0001912      VOLUME      416722.084 3746956.067 52.84
LOCATION  L0001913      VOLUME      416713.494 3746956.031 52.79
LOCATION  L0001914      VOLUME      416704.904 3746955.994 52.74
LOCATION  L0001915      VOLUME      416696.314 3746955.958 52.69
LOCATION  L0001916      VOLUME      416687.724 3746955.922 52.64
LOCATION  L0001917      VOLUME      416679.134 3746955.886 52.58
LOCATION  L0001918      VOLUME      416670.544 3746955.850 52.53
LOCATION  L0001919      VOLUME      416661.954 3746955.813 52.47
LOCATION  L0001920      VOLUME      416653.364 3746955.777 52.41
LOCATION  L0001921      VOLUME      416644.774 3746955.741 52.35
LOCATION  L0001922      VOLUME      416636.185 3746955.705 52.29
LOCATION  L0001923      VOLUME      416627.595 3746955.668 52.23
LOCATION  L0001924      VOLUME      416619.005 3746955.632 52.17
LOCATION  L0001925      VOLUME      416610.415 3746955.596 52.11
LOCATION  L0001926      VOLUME      416601.825 3746955.560 52.05
LOCATION  L0001927      VOLUME      416593.235 3746955.524 51.99
LOCATION  L0001928      VOLUME      416584.645 3746955.487 51.94
LOCATION  L0001929      VOLUME      416576.055 3746955.451 51.88
LOCATION  L0001930      VOLUME      416567.465 3746955.415 51.83
LOCATION  L0001931      VOLUME      416558.875 3746955.379 51.78
LOCATION  L0001932      VOLUME      416550.285 3746955.343 51.72
LOCATION  L0001933      VOLUME      416541.695 3746955.306 51.67
LOCATION  L0001934      VOLUME      416533.105 3746955.270 51.62
LOCATION  L0001935      VOLUME      416524.516 3746955.234 51.56
LOCATION  L0001936      VOLUME      416515.926 3746955.198 51.52
LOCATION  L0001937      VOLUME      416507.336 3746955.162 51.52
LOCATION  L0001938      VOLUME      416498.746 3746955.125 51.52
LOCATION  L0001939      VOLUME      416490.156 3746955.089 51.52
LOCATION  L0001940      VOLUME      416481.566 3746955.053 51.51
LOCATION  L0001941      VOLUME      416472.976 3746955.017 51.51
LOCATION  L0001942      VOLUME      416464.386 3746954.981 51.51
LOCATION  L0001943      VOLUME      416455.796 3746954.944 51.51
LOCATION  L0001944      VOLUME      416447.206 3746954.908 51.51
LOCATION  L0001945      VOLUME      416438.616 3746954.872 51.49
LOCATION  L0001946      VOLUME      416430.026 3746954.836 51.44
LOCATION  L0001947      VOLUME      416421.436 3746954.800 51.38
LOCATION  L0001948      VOLUME      416412.847 3746954.763 51.32
LOCATION  L0001949      VOLUME      416404.257 3746954.727 51.27
LOCATION  L0001950      VOLUME      416395.667 3746954.691 51.21
LOCATION  L0001951      VOLUME      416387.077 3746954.655 51.15
LOCATION  L0001952      VOLUME      416378.487 3746954.618 51.10
LOCATION  L0001953      VOLUME      416369.897 3746954.582 51.04
LOCATION  L0001954      VOLUME      416361.307 3746954.546 50.98
LOCATION  L0001955      VOLUME      416352.717 3746954.510 50.93
LOCATION  L0001956      VOLUME      416344.127 3746954.474 50.87
LOCATION  L0001957      VOLUME      416335.537 3746954.437 50.82
```

```
   LOCATION L0001958      VOLUME      416326.947 3746954.401 50.76
   LOCATION L0001959      VOLUME      416318.357 3746954.365 50.70
   LOCATION L0001960      VOLUME      416309.767 3746954.329 50.64
   LOCATION L0001961      VOLUME      416301.178 3746954.293 50.59
   LOCATION L0001962      VOLUME      416292.588 3746954.256 50.53
   LOCATION L0001963      VOLUME      416283.998 3746954.220 50.47
   LOCATION L0001964      VOLUME      416275.408 3746954.184 50.42
   LOCATION L0001965      VOLUME      416266.818 3746954.148 50.36
   LOCATION L0001966      VOLUME      416258.228 3746954.112 50.31
   LOCATION L0001967      VOLUME      416249.638 3746954.075 50.25
   LOCATION L0001968      VOLUME      416241.048 3746954.039 50.20
   LOCATION L0001969      VOLUME      416232.458 3746954.003 50.14
   LOCATION L0001970      VOLUME      416223.868 3746953.967 50.09
   LOCATION L0001971      VOLUME      416215.278 3746953.931 50.04
   LOCATION L0001972      VOLUME      416206.688 3746953.894 50.00
   LOCATION L0001973      VOLUME      416198.098 3746953.858 50.00
   LOCATION L0001974      VOLUME      416189.509 3746953.822 50.00
   LOCATION L0001975      VOLUME      416180.919 3746953.786 50.00
   LOCATION L0001976      VOLUME      416172.329 3746953.750 50.00
   LOCATION L0001977      VOLUME      416163.739 3746953.713 50.00
   LOCATION L0001978      VOLUME      416155.149 3746953.677 50.00
   LOCATION L0001979      VOLUME      416146.559 3746953.641 50.00
   LOCATION L0001980      VOLUME      416137.969 3746953.605 50.00
   LOCATION L0001981      VOLUME      416129.379 3746953.569 49.98
   LOCATION L0001982      VOLUME      416120.789 3746953.532 49.92
** END OF LINE VOLUME SOURCE ID = SLINE19
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE20
** DESCRSRC OFF-SITE TRAVEL 5% ON RAYMOND AV. TO SR-91
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 5.775E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 416122.158, 3746947.511, 49.78, 3.49, 4.00
** 416119.583, 3746389.517, 47.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001983      VOLUME      416122.139 3746943.216 49.91
   LOCATION L0001984      VOLUME      416122.099 3746934.626 49.90
   LOCATION L0001985      VOLUME      416122.059 3746926.036 49.89
   LOCATION L0001986      VOLUME      416122.020 3746917.446 49.88
   LOCATION L0001987      VOLUME      416121.980 3746908.856 49.85
   LOCATION L0001988      VOLUME      416121.940 3746900.266 49.77
   LOCATION L0001989      VOLUME      416121.901 3746891.676 49.69
   LOCATION L0001990      VOLUME      416121.861 3746883.087 49.61
   LOCATION L0001991      VOLUME      416121.821 3746874.497 49.53
   LOCATION L0001992      VOLUME      416121.782 3746865.907 49.45
```

```
LOCATION  L0001993     VOLUME     416121.742 3746857.317 49.37
LOCATION  L0001994     VOLUME     416121.702 3746848.727 49.29
LOCATION  L0001995     VOLUME     416121.663 3746840.137 49.21
LOCATION  L0001996     VOLUME     416121.623 3746831.547 49.13
LOCATION  L0001997     VOLUME     416121.583 3746822.957 49.04
LOCATION  L0001998     VOLUME     416121.544 3746814.367 48.99
LOCATION  L0001999     VOLUME     416121.504 3746805.777 48.98
LOCATION  L0002000     VOLUME     416121.465 3746797.187 48.97
LOCATION  L0002001     VOLUME     416121.425 3746788.598 48.96
LOCATION  L0002002     VOLUME     416121.385 3746780.008 48.95
LOCATION  L0002003     VOLUME     416121.346 3746771.418 48.94
LOCATION  L0002004     VOLUME     416121.306 3746762.828 48.93
LOCATION  L0002005     VOLUME     416121.266 3746754.238 48.92
LOCATION  L0002006     VOLUME     416121.227 3746745.648 48.90
LOCATION  L0002007     VOLUME     416121.187 3746737.058 48.89
LOCATION  L0002008     VOLUME     416121.147 3746728.468 48.88
LOCATION  L0002009     VOLUME     416121.108 3746719.878 48.82
LOCATION  L0002010     VOLUME     416121.068 3746711.288 48.74
LOCATION  L0002011     VOLUME     416121.028 3746702.698 48.66
LOCATION  L0002012     VOLUME     416120.989 3746694.109 48.58
LOCATION  L0002013     VOLUME     416120.949 3746685.519 48.50
LOCATION  L0002014     VOLUME     416120.910 3746676.929 48.42
LOCATION  L0002015     VOLUME     416120.870 3746668.339 48.33
LOCATION  L0002016     VOLUME     416120.830 3746659.749 48.25
LOCATION  L0002017     VOLUME     416120.791 3746651.159 48.17
LOCATION  L0002018     VOLUME     416120.751 3746642.569 48.09
LOCATION  L0002019     VOLUME     416120.711 3746633.979 48.01
LOCATION  L0002020     VOLUME     416120.672 3746625.389 47.99
LOCATION  L0002021     VOLUME     416120.632 3746616.799 47.98
LOCATION  L0002022     VOLUME     416120.592 3746608.209 47.97
LOCATION  L0002023     VOLUME     416120.553 3746599.620 47.96
LOCATION  L0002024     VOLUME     416120.513 3746591.030 47.95
LOCATION  L0002025     VOLUME     416120.473 3746582.440 47.94
LOCATION  L0002026     VOLUME     416120.434 3746573.850 47.93
LOCATION  L0002027     VOLUME     416120.394 3746565.260 47.92
LOCATION  L0002028     VOLUME     416120.354 3746556.670 47.91
LOCATION  L0002029     VOLUME     416120.315 3746548.080 47.90
LOCATION  L0002030     VOLUME     416120.275 3746539.490 47.87
LOCATION  L0002031     VOLUME     416120.236 3746530.900 47.79
LOCATION  L0002032     VOLUME     416120.196 3746522.310 47.71
LOCATION  L0002033     VOLUME     416120.156 3746513.720 47.63
LOCATION  L0002034     VOLUME     416120.117 3746505.131 47.55
LOCATION  L0002035     VOLUME     416120.077 3746496.541 47.46
LOCATION  L0002036     VOLUME     416120.037 3746487.951 47.38
LOCATION  L0002037     VOLUME     416119.998 3746479.361 47.30
LOCATION  L0002038     VOLUME     416119.958 3746470.771 47.21
LOCATION  L0002039     VOLUME     416119.918 3746462.181 47.13
LOCATION  L0002040     VOLUME     416119.879 3746453.591 47.05
LOCATION  L0002041     VOLUME     416119.839 3746445.001 47.00
LOCATION  L0002042     VOLUME     416119.799 3746436.411 47.00
```

```
    LOCATION L0002043      VOLUME     416119.760 3746427.821 47.00
    LOCATION L0002044      VOLUME     416119.720 3746419.231 47.00
    LOCATION L0002045      VOLUME     416119.681 3746410.642 47.00
    LOCATION L0002046      VOLUME     416119.641 3746402.052 47.00
    LOCATION L0002047      VOLUME     416119.601 3746393.462 47.00
** END OF LINE VOLUME SOURCE ID = SLINE20
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE21
** DESCRSRC OFF-SITE TRAVEL 5% ON ORANGETHORPE WEST OF RAYMOND AV.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 7.294E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 416109.282, 3746956.095, 49.65, 3.49, 4.00
** 415404.493, 3746956.095, 49.00, 3.49, 4.00
** ----------------------------------------------------------------------
    LOCATION L0002048      VOLUME     416104.987 3746956.095 49.82
    LOCATION L0002049      VOLUME     416096.397 3746956.095 49.76
    LOCATION L0002050      VOLUME     416087.807 3746956.095 49.70
    LOCATION L0002051      VOLUME     416079.217 3746956.095 49.65
    LOCATION L0002052      VOLUME     416070.627 3746956.095 49.59
    LOCATION L0002053      VOLUME     416062.037 3746956.095 49.53
    LOCATION L0002054      VOLUME     416053.447 3746956.095 49.47
    LOCATION L0002055      VOLUME     416044.857 3746956.095 49.42
    LOCATION L0002056      VOLUME     416036.267 3746956.095 49.36
    LOCATION L0002057      VOLUME     416027.677 3746956.095 49.31
    LOCATION L0002058      VOLUME     416019.087 3746956.095 49.26
    LOCATION L0002059      VOLUME     416010.497 3746956.095 49.20
    LOCATION L0002060      VOLUME     416001.907 3746956.095 49.15
    LOCATION L0002061      VOLUME     415993.317 3746956.095 49.09
    LOCATION L0002062      VOLUME     415984.727 3746956.095 49.04
    LOCATION L0002063      VOLUME     415976.137 3746956.095 49.00
    LOCATION L0002064      VOLUME     415967.547 3746956.095 49.00
    LOCATION L0002065      VOLUME     415958.957 3746956.095 49.00
    LOCATION L0002066      VOLUME     415950.367 3746956.095 49.00
    LOCATION L0002067      VOLUME     415941.777 3746956.095 49.00
    LOCATION L0002068      VOLUME     415933.187 3746956.095 49.00
    LOCATION L0002069      VOLUME     415924.597 3746956.095 49.00
    LOCATION L0002070      VOLUME     415916.007 3746956.095 49.00
    LOCATION L0002071      VOLUME     415907.417 3746956.095 49.00
    LOCATION L0002072      VOLUME     415898.827 3746956.095 49.00
    LOCATION L0002073      VOLUME     415890.237 3746956.095 49.00
    LOCATION L0002074      VOLUME     415881.647 3746956.095 49.00
    LOCATION L0002075      VOLUME     415873.057 3746956.095 49.00
    LOCATION L0002076      VOLUME     415864.467 3746956.095 49.00
    LOCATION L0002077      VOLUME     415855.877 3746956.095 49.00
```

```
LOCATION  L0002078      VOLUME      415847.287 3746956.095 49.00
LOCATION  L0002079      VOLUME      415838.697 3746956.095 49.00
LOCATION  L0002080      VOLUME      415830.107 3746956.095 49.00
LOCATION  L0002081      VOLUME      415821.517 3746956.095 49.00
LOCATION  L0002082      VOLUME      415812.927 3746956.095 49.00
LOCATION  L0002083      VOLUME      415804.337 3746956.095 49.00
LOCATION  L0002084      VOLUME      415795.747 3746956.095 49.00
LOCATION  L0002085      VOLUME      415787.157 3746956.095 49.00
LOCATION  L0002086      VOLUME      415778.567 3746956.095 49.00
LOCATION  L0002087      VOLUME      415769.977 3746956.095 49.00
LOCATION  L0002088      VOLUME      415761.387 3746956.095 49.00
LOCATION  L0002089      VOLUME      415752.797 3746956.095 49.00
LOCATION  L0002090      VOLUME      415744.207 3746956.095 49.00
LOCATION  L0002091      VOLUME      415735.617 3746956.095 49.00
LOCATION  L0002092      VOLUME      415727.027 3746956.095 49.00
LOCATION  L0002093      VOLUME      415718.437 3746956.095 49.00
LOCATION  L0002094      VOLUME      415709.847 3746956.095 49.00
LOCATION  L0002095      VOLUME      415701.257 3746956.095 49.00
LOCATION  L0002096      VOLUME      415692.667 3746956.095 49.00
LOCATION  L0002097      VOLUME      415684.077 3746956.095 49.00
LOCATION  L0002098      VOLUME      415675.487 3746956.095 49.00
LOCATION  L0002099      VOLUME      415666.897 3746956.095 49.00
LOCATION  L0002100      VOLUME      415658.307 3746956.095 49.00
LOCATION  L0002101      VOLUME      415649.717 3746956.095 49.00
LOCATION  L0002102      VOLUME      415641.127 3746956.095 49.00
LOCATION  L0002103      VOLUME      415632.537 3746956.095 49.00
LOCATION  L0002104      VOLUME      415623.947 3746956.095 49.00
LOCATION  L0002105      VOLUME      415615.357 3746956.095 49.00
LOCATION  L0002106      VOLUME      415606.767 3746956.095 49.00
LOCATION  L0002107      VOLUME      415598.177 3746956.095 49.00
LOCATION  L0002108      VOLUME      415589.587 3746956.095 49.00
LOCATION  L0002109      VOLUME      415580.997 3746956.095 49.00
LOCATION  L0002110      VOLUME      415572.407 3746956.095 49.00
LOCATION  L0002111      VOLUME      415563.817 3746956.095 49.00
LOCATION  L0002112      VOLUME      415555.227 3746956.095 49.00
LOCATION  L0002113      VOLUME      415546.637 3746956.095 49.00
LOCATION  L0002114      VOLUME      415538.047 3746956.095 49.00
LOCATION  L0002115      VOLUME      415529.457 3746956.095 49.00
LOCATION  L0002116      VOLUME      415520.867 3746956.095 49.00
LOCATION  L0002117      VOLUME      415512.277 3746956.095 49.00
LOCATION  L0002118      VOLUME      415503.687 3746956.095 49.00
LOCATION  L0002119      VOLUME      415495.097 3746956.095 49.00
LOCATION  L0002120      VOLUME      415486.507 3746956.095 49.00
LOCATION  L0002121      VOLUME      415477.917 3746956.095 49.00
LOCATION  L0002122      VOLUME      415469.327 3746956.095 49.00
LOCATION  L0002123      VOLUME      415460.737 3746956.095 49.00
LOCATION  L0002124      VOLUME      415452.147 3746956.095 49.00
LOCATION  L0002125      VOLUME      415443.557 3746956.095 49.00
LOCATION  L0002126      VOLUME      415434.967 3746956.095 49.00
LOCATION  L0002127      VOLUME      415426.377 3746956.095 49.00
```

```
   LOCATION L0002128      VOLUME    415417.787 3746956.095 49.00
   LOCATION L0002129      VOLUME    415409.197 3746956.095 49.00
** END OF LINE VOLUME SOURCE ID = SLINE21
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE22
** DESCRSRC OFF-SITE TRAVEL 5% NORTH ON N. STATE COLLEGE BL.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001234
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 7
** 417720.716, 3748547.899, 64.94, 3.49, 4.00
** 417722.648, 3747983.890, 61.75, 3.49, 4.00
** 417718.785, 3747866.067, 60.78, 3.49, 4.00
** 417718.785, 3747752.106, 60.09, 3.49, 4.00
** 417724.580, 3747549.295, 59.00, 3.49, 4.00
** 417726.511, 3747365.799, 58.00, 3.49, 4.00
** 417728.443, 3747356.141, 58.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0002130      VOLUME    417720.731 3748543.604 64.82
   LOCATION L0002131      VOLUME    417720.761 3748535.014 64.73
   LOCATION L0002132      VOLUME    417720.790 3748526.424 64.64
   LOCATION L0002133      VOLUME    417720.819 3748517.834 64.54
   LOCATION L0002134      VOLUME    417720.849 3748509.244 64.45
   LOCATION L0002135      VOLUME    417720.878 3748500.654 64.36
   LOCATION L0002136      VOLUME    417720.908 3748492.064 64.26
   LOCATION L0002137      VOLUME    417720.937 3748483.474 64.17
   LOCATION L0002138      VOLUME    417720.966 3748474.884 64.08
   LOCATION L0002139      VOLUME    417720.996 3748466.294 63.99
   LOCATION L0002140      VOLUME    417721.025 3748457.704 63.89
   LOCATION L0002141      VOLUME    417721.055 3748449.114 63.80
   LOCATION L0002142      VOLUME    417721.084 3748440.524 63.71
   LOCATION L0002143      VOLUME    417721.114 3748431.935 63.61
   LOCATION L0002144      VOLUME    417721.143 3748423.345 63.52
   LOCATION L0002145      VOLUME    417721.172 3748414.755 63.43
   LOCATION L0002146      VOLUME    417721.202 3748406.165 63.33
   LOCATION L0002147      VOLUME    417721.231 3748397.575 63.24
   LOCATION L0002148      VOLUME    417721.261 3748388.985 63.15
   LOCATION L0002149      VOLUME    417721.290 3748380.395 63.06
   LOCATION L0002150      VOLUME    417721.320 3748371.805 63.00
   LOCATION L0002151      VOLUME    417721.349 3748363.215 63.00
   LOCATION L0002152      VOLUME    417721.378 3748354.625 63.00
   LOCATION L0002153      VOLUME    417721.408 3748346.035 63.00
   LOCATION L0002154      VOLUME    417721.437 3748337.445 63.00
   LOCATION L0002155      VOLUME    417721.467 3748328.855 63.00
   LOCATION L0002156      VOLUME    417721.496 3748320.265 63.00
   LOCATION L0002157      VOLUME    417721.525 3748311.675 63.00
```

```
LOCATION L0002158      VOLUME      417721.555 3748303.085 63.00
LOCATION L0002159      VOLUME      417721.584 3748294.495 63.00
LOCATION L0002160      VOLUME      417721.614 3748285.905 63.00
LOCATION L0002161      VOLUME      417721.643 3748277.315 62.94
LOCATION L0002162      VOLUME      417721.673 3748268.725 62.85
LOCATION L0002163      VOLUME      417721.702 3748260.136 62.75
LOCATION L0002164      VOLUME      417721.731 3748251.546 62.66
LOCATION L0002165      VOLUME      417721.761 3748242.956 62.57
LOCATION L0002166      VOLUME      417721.790 3748234.366 62.48
LOCATION L0002167      VOLUME      417721.820 3748225.776 62.38
LOCATION L0002168      VOLUME      417721.849 3748217.186 62.29
LOCATION L0002169      VOLUME      417721.878 3748208.596 62.20
LOCATION L0002170      VOLUME      417721.908 3748200.006 62.10
LOCATION L0002171      VOLUME      417721.937 3748191.416 62.01
LOCATION L0002172      VOLUME      417721.967 3748182.826 62.00
LOCATION L0002173      VOLUME      417721.996 3748174.236 62.00
LOCATION L0002174      VOLUME      417722.026 3748165.646 62.00
LOCATION L0002175      VOLUME      417722.055 3748157.056 62.00
LOCATION L0002176      VOLUME      417722.084 3748148.466 62.00
LOCATION L0002177      VOLUME      417722.114 3748139.876 62.00
LOCATION L0002178      VOLUME      417722.143 3748131.286 62.00
LOCATION L0002179      VOLUME      417722.173 3748122.696 62.00
LOCATION L0002180      VOLUME      417722.202 3748114.106 62.00
LOCATION L0002181      VOLUME      417722.231 3748105.516 62.00
LOCATION L0002182      VOLUME      417722.261 3748096.926 62.00
LOCATION L0002183      VOLUME      417722.290 3748088.337 62.00
LOCATION L0002184      VOLUME      417722.320 3748079.747 62.00
LOCATION L0002185      VOLUME      417722.349 3748071.157 62.00
LOCATION L0002186      VOLUME      417722.379 3748062.567 62.00
LOCATION L0002187      VOLUME      417722.408 3748053.977 62.00
LOCATION L0002188      VOLUME      417722.437 3748045.387 62.00
LOCATION L0002189      VOLUME      417722.467 3748036.797 62.00
LOCATION L0002190      VOLUME      417722.496 3748028.207 62.00
LOCATION L0002191      VOLUME      417722.526 3748019.617 62.00
LOCATION L0002192      VOLUME      417722.555 3748011.027 62.00
LOCATION L0002193      VOLUME      417722.584 3748002.437 61.97
LOCATION L0002194      VOLUME      417722.614 3747993.847 61.87
LOCATION L0002195      VOLUME      417722.643 3747985.257 61.78
LOCATION L0002196      VOLUME      417722.411 3747976.671 61.69
LOCATION L0002197      VOLUME      417722.130 3747968.086 61.59
LOCATION L0002198      VOLUME      417721.848 3747959.500 61.50
LOCATION L0002199      VOLUME      417721.567 3747950.915 61.41
LOCATION L0002200      VOLUME      417721.285 3747942.329 61.32
LOCATION L0002201      VOLUME      417721.004 3747933.744 61.22
LOCATION L0002202      VOLUME      417720.722 3747925.159 61.13
LOCATION L0002203      VOLUME      417720.441 3747916.573 61.04
LOCATION L0002204      VOLUME      417720.159 3747907.988 61.00
LOCATION L0002205      VOLUME      417719.878 3747899.403 61.00
LOCATION L0002206      VOLUME      417719.596 3747890.817 61.00
LOCATION L0002207      VOLUME      417719.315 3747882.232 61.00
```

```
LOCATION  L0002208        VOLUME      417719.033 3747873.646 61.00
LOCATION  L0002209        VOLUME      417718.785 3747865.060 61.00
LOCATION  L0002210        VOLUME      417718.785 3747856.470 61.00
LOCATION  L0002211        VOLUME      417718.785 3747847.880 61.00
LOCATION  L0002212        VOLUME      417718.785 3747839.290 61.00
LOCATION  L0002213        VOLUME      417718.785 3747830.700 61.00
LOCATION  L0002214        VOLUME      417718.785 3747822.110 61.00
LOCATION  L0002215        VOLUME      417718.785 3747813.520 60.92
LOCATION  L0002216        VOLUME      417718.785 3747804.930 60.83
LOCATION  L0002217        VOLUME      417718.785 3747796.340 60.74
LOCATION  L0002218        VOLUME      417718.785 3747787.750 60.64
LOCATION  L0002219        VOLUME      417718.785 3747779.160 60.55
LOCATION  L0002220        VOLUME      417718.785 3747770.570 60.46
LOCATION  L0002221        VOLUME      417718.785 3747761.980 60.36
LOCATION  L0002222        VOLUME      417718.785 3747753.390 60.27
LOCATION  L0002223        VOLUME      417718.994 3747744.803 60.18
LOCATION  L0002224        VOLUME      417719.239 3747736.217 60.08
LOCATION  L0002225        VOLUME      417719.484 3747727.630 60.00
LOCATION  L0002226        VOLUME      417719.730 3747719.044 60.00
LOCATION  L0002227        VOLUME      417719.975 3747710.457 60.00
LOCATION  L0002228        VOLUME      417720.220 3747701.871 60.00
LOCATION  L0002229        VOLUME      417720.466 3747693.284 60.00
LOCATION  L0002230        VOLUME      417720.711 3747684.698 60.00
LOCATION  L0002231        VOLUME      417720.956 3747676.111 60.00
LOCATION  L0002232        VOLUME      417721.202 3747667.525 60.00
LOCATION  L0002233        VOLUME      417721.447 3747658.938 60.00
LOCATION  L0002234        VOLUME      417721.692 3747650.352 60.00
LOCATION  L0002235        VOLUME      417721.937 3747641.765 60.00
LOCATION  L0002236        VOLUME      417722.183 3747633.179 59.97
LOCATION  L0002237        VOLUME      417722.428 3747624.592 59.88
LOCATION  L0002238        VOLUME      417722.673 3747616.006 59.78
LOCATION  L0002239        VOLUME      417722.919 3747607.420 59.69
LOCATION  L0002240        VOLUME      417723.164 3747598.833 59.60
LOCATION  L0002241        VOLUME      417723.409 3747590.247 59.51
LOCATION  L0002242        VOLUME      417723.655 3747581.660 59.41
LOCATION  L0002243        VOLUME      417723.900 3747573.074 59.32
LOCATION  L0002244        VOLUME      417724.145 3747564.487 59.23
LOCATION  L0002245        VOLUME      417724.391 3747555.901 59.13
LOCATION  L0002246        VOLUME      417724.600 3747547.313 59.04
LOCATION  L0002247        VOLUME      417724.691 3747538.724 59.00
LOCATION  L0002248        VOLUME      417724.781 3747530.134 59.00
LOCATION  L0002249        VOLUME      417724.872 3747521.545 59.00
LOCATION  L0002250        VOLUME      417724.962 3747512.955 59.00
LOCATION  L0002251        VOLUME      417725.052 3747504.366 59.00
LOCATION  L0002252        VOLUME      417725.143 3747495.776 59.00
LOCATION  L0002253        VOLUME      417725.233 3747487.187 59.00
LOCATION  L0002254        VOLUME      417725.324 3747478.597 59.00
LOCATION  L0002255        VOLUME      417725.414 3747470.008 59.00
LOCATION  L0002256        VOLUME      417725.505 3747461.418 59.00
LOCATION  L0002257        VOLUME      417725.595 3747452.829 59.00
```

```
    LOCATION L0002258      VOLUME    417725.685 3747444.239 58.93
    LOCATION L0002259      VOLUME    417725.776 3747435.650 58.83
    LOCATION L0002260      VOLUME    417725.866 3747427.060 58.74
    LOCATION L0002261      VOLUME    417725.957 3747418.470 58.65
    LOCATION L0002262      VOLUME    417726.047 3747409.881 58.55
    LOCATION L0002263      VOLUME    417726.137 3747401.291 58.46
    LOCATION L0002264      VOLUME    417726.228 3747392.702 58.37
    LOCATION L0002265      VOLUME    417726.318 3747384.112 58.28
    LOCATION L0002266      VOLUME    417726.409 3747375.523 58.18
    LOCATION L0002267      VOLUME    417726.499 3747366.933 58.09
    LOCATION L0002268      VOLUME    417727.973 3747358.488 58.00
 ** END OF LINE VOLUME SOURCE ID = SLINE22
 ** SOURCE PARAMETERS **
 ** LINE VOLUME SOURCE ID = SLINE1
    SRCPARAM L0001247      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001248      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001249      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001250      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001251      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001252      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001253      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001254      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001255      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001256      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001257      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001258      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001259      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001260      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001261      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001262      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001263      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001264      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001265      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001266      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001267      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001268      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001269      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001270      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001271      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001272      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001273      0.0000079      3.49       4.00       3.25
    SRCPARAM L0001274      0.0000079      3.49       4.00       3.25
 ** -----------------------------------------------------------------
 ** LINE VOLUME SOURCE ID = SLINE2
    SRCPARAM L0001275      0.0000009032     3.49       4.00       3.25
    SRCPARAM L0001276      0.0000009032     3.49       4.00       3.25
    SRCPARAM L0001277      0.0000009032     3.49       4.00       3.25
    SRCPARAM L0001278      0.0000009032     3.49       4.00       3.25
    SRCPARAM L0001279      0.0000009032     3.49       4.00       3.25
    SRCPARAM L0001280      0.0000009032     3.49       4.00       3.25
```

```
   SRCPARAM L0001281        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001282        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001283        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001284        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001285        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001286        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001287        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001288        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001289        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001290        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001291        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001292        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001293        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001294        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001295        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001296        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001297        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001298        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001299        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001300        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001301        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001302        0.0000009032        3.49     4.00     3.25
** ----------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE3
   SRCPARAM L0001303        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001304        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001305        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001306        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001307        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001308        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001309        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001310        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001311        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001312        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001313        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001314        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001315        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001316        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001317        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001318        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001319        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001320        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001321        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001322        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001323        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001324        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001325        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001326        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001327        0.0000009032        3.49     4.00     3.25
   SRCPARAM L0001328        0.0000009032        3.49     4.00     3.25
```

```
   SRCPARAM L0001329      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001330      0.0000009032      3.49      4.00      3.25
** -------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE4
   SRCPARAM L0001331      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001332      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001333      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001334      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001335      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001336      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001337      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001338      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001339      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001340      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001341      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001342      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001343      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001344      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001345      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001346      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001347      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001348      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001349      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001350      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001351      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001352      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001353      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001354      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001355      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001356      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001357      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001358      0.0000009032      3.49      4.00      3.25
** -------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE5
   SRCPARAM L0001359      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001360      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001361      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001362      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001363      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001364      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001365      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001366      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001367      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001368      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001369      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001370      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001371      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001372      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001373      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001374      0.0000009032      3.49      4.00      3.25
```

```
   SRCPARAM L0001375      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001376      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001377      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001378      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001379      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001380      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001381      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001382      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001383      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001384      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001385      0.0000009032      3.49      4.00      3.25
   SRCPARAM L0001386      0.0000009032      3.49      4.00      3.25
** -----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE6
   SRCPARAM L0001387      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001388      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001389      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001390      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001391      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001392      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001393      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001394      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001395      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001396      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001397      0.0000009967      3.49      4.00      3.25
   SRCPARAM L0001398      0.0000009967      3.49      4.00      3.25
** -----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE7
   SRCPARAM L0001399      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001400      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001401      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001402      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001403      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001404      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001405      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001406      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001407      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001408      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001409      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001410      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001411      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001412      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001413      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001414      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001415      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001416      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001417      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001418      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001419      0.000001208       3.49      4.00      3.25
   SRCPARAM L0001420      0.000001208       3.49      4.00      3.25
```

```
   SRCPARAM L0001421     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001422     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001423     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001424     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001425     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001426     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001427     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001428     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001429     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001430     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001431     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001432     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001433     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001434     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001435     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001436     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001437     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001438     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001439     0.000001208     3.49     4.00     3.25
   SRCPARAM L0001440     0.000001208     3.49     4.00     3.25
** --------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE8
   SRCPARAM L0001441     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001442     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001443     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001444     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001445     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001446     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001447     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001448     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001449     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001450     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001451     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001452     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001453     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001454     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001455     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001456     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001457     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001458     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001459     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001460     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001461     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001462     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001463     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001464     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001465     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001466     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001467     0.000001201     3.49     4.00     3.25
   SRCPARAM L0001468     0.000001201     3.49     4.00     3.25
```

```
   SRCPARAM L0001469      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001470      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001471      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001472      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001473      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001474      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001475      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001476      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001477      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001478      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001479      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001480      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001481      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001482      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001483      0.000001201       3.49      4.00      3.25
   SRCPARAM L0001484      0.000001201       3.49      4.00      3.25
** -------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE9
   SRCPARAM L0001485      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001486      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001487      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001488      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001489      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001490      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001491      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001492      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001493      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001494      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001495      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001496      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001497      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001498      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001499      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001500      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001501      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001502      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001503      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001504      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001505      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001506      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001507      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001508      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001509      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001510      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001511      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001512      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001513      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001514      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001515      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001516      0.0000003769      3.49      4.00      3.25
```

```
   SRCPARAM L0001517      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001518      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001519      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001520      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001521      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001522      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001523      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001524      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001525      0.0000003769      3.49      4.00      3.25
   SRCPARAM L0001526      0.0000003769      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE10
   SRCPARAM L0001527      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001528      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001529      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001530      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001531      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001532      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001533      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001534      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001535      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001536      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001537      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001538      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001539      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001540      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001541      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001542      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001543      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001544      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001545      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001546      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001547      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001548      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001549      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001550      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001551      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001552      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001553      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001554      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001555      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001556      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001557      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001558      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001559      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001560      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001561      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001562      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001563      0.0000003716      3.49      4.00      3.25
   SRCPARAM L0001564      0.0000003716      3.49      4.00      3.25
```

```
    SRCPARAM L0001565      0.0000003716      3.49      4.00      3.25
    SRCPARAM L0001566      0.0000003716      3.49      4.00      3.25
    SRCPARAM L0001567      0.0000003716      3.49      4.00      3.25
    SRCPARAM L0001568      0.0000003716      3.49      4.00      3.25
    SRCPARAM L0001569      0.0000003716      3.49      4.00      3.25
**  ----------------------------------------------------------------
**  LINE VOLUME SOURCE ID = SLINE11
    SRCPARAM L0001570      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001571      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001572      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001573      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001574      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001575      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001576      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001577      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001578      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001579      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001580      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001581      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001582      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001583      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001584      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001585      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001586      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001587      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001588      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001589      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001590      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001591      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001592      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001593      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001594      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001595      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001596      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001597      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001598      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001599      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001600      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001601      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001602      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001603      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001604      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001605      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001606      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001607      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001608      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001609      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001610      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001611      0.0000003756      3.49      4.00      3.25
    SRCPARAM L0001612      0.0000003756      3.49      4.00      3.25
```

```
** ------------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE12
   SRCPARAM L0001613    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001614    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001615    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001616    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001617    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001618    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001619    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001620    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001621    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001622    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001623    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001624    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001625    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001626    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001627    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001628    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001629    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001630    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001631    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001632    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001633    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001634    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001635    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001636    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001637    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001638    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001639    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001640    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001641    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001642    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001643    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001644    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001645    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001646    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001647    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001648    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001649    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001650    0.0000001785      3.49      4.00      3.25
   SRCPARAM L0001651    0.0000001785      3.49      4.00      3.25
** ------------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE13
   SRCPARAM L0001652    0.0000004599      3.49     10.23      3.25
   SRCPARAM L0001653    0.0000004599      3.49     10.23      3.25
   SRCPARAM L0001654    0.0000004599      3.49     10.23      3.25
   SRCPARAM L0001655    0.0000004599      3.49     10.23      3.25
   SRCPARAM L0001656    0.0000004599      3.49     10.23      3.25
   SRCPARAM L0001657    0.0000004599      3.49     10.23      3.25
   SRCPARAM L0001658    0.0000004599      3.49     10.23      3.25
```

```
   SRCPARAM L0001659      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001660      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001661      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001662      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001663      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001664      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001665      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001666      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001667      0.0000004599      3.49    10.23      3.25
   SRCPARAM L0001668      0.0000004599      3.49    10.23      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE14
   SRCPARAM L0001669      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001670      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001671      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001672      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001673      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001674      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001675      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001676      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001677      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001678      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001679      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001680      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001681      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001682      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001683      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001684      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001685      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001686      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001687      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001688      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001689      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001690      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001691      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001692      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001693      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001694      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001695      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001696      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001697      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001698      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001699      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001700      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001701      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001702      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001703      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001704      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001705      0.0000005326      3.49     4.00      3.25
   SRCPARAM L0001706      0.0000005326      3.49     4.00      3.25
```

```
SRCPARAM L0001707    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001708    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001709    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001710    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001711    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001712    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001713    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001714    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001715    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001716    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001717    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001718    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001719    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001720    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001721    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001722    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001723    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001724    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001725    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001726    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001727    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001728    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001729    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001730    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001731    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001732    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001733    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001734    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001735    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001736    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001737    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001738    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001739    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001740    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001741    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001742    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001743    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001744    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001745    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001746    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001747    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001748    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001749    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001750    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001751    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001752    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001753    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001754    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001755    0.0000005326    3.49    4.00    3.25
SRCPARAM L0001756    0.0000005326    3.49    4.00    3.25
```

```
   SRCPARAM L0001757     0.0000005326      3.49      4.00      3.25
   SRCPARAM L0001758     0.0000005326      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE15
   SRCPARAM L0001759     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001760     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001761     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001762     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001763     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001764     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001765     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001766     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001767     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001768     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001769     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001770     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001771     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001772     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001773     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001774     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001775     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001776     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001777     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001778     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001779     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001780     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001781     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001782     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001783     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001784     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001785     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001786     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001787     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001788     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001789     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001790     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001791     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001792     0.000001363       3.49     10.23      3.25
   SRCPARAM L0001793     0.000001363       3.49     10.23      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE16
   SRCPARAM L0001794     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001795     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001796     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001797     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001798     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001799     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001800     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001801     0.000001386       3.49     10.23      3.25
   SRCPARAM L0001802     0.000001386       3.49     10.23      3.25
```

```
      SRCPARAM L0001803       0.000001386      3.49      10.23      3.25
      SRCPARAM L0001804       0.000001386      3.49      10.23      3.25
      SRCPARAM L0001805       0.000001386      3.49      10.23      3.25
      SRCPARAM L0001806       0.000001386      3.49      10.23      3.25
      SRCPARAM L0001807       0.000001386      3.49      10.23      3.25
      SRCPARAM L0001808       0.000001386      3.49      10.23      3.25
      SRCPARAM L0001809       0.000001386      3.49      10.23      3.25
      SRCPARAM L0001810       0.000001386      3.49      10.23      3.25
**    ------------------------------------------------------------------
**    LINE VOLUME SOURCE ID = SLINE17
      SRCPARAM L0001811       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001812       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001813       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001814       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001815       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001816       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001817       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001818       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001819       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001820       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001821       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001822       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001823       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001824       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001825       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001826       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001827       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001828       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001829       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001830       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001831       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001832       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001833       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001834       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001835       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001836       0.000002497      3.49      10.23      3.25
      SRCPARAM L0001837       0.000002497      3.49      10.23      3.25
**    ------------------------------------------------------------------
**    LINE VOLUME SOURCE ID = SLINE18
      SRCPARAM L0001838       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001839       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001840       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001841       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001842       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001843       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001844       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001845       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001846       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001847       0.000001367      3.49      10.23      3.25
      SRCPARAM L0001848       0.000001367      3.49      10.23      3.25
```

```
   SRCPARAM L0001849      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001850      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001851      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001852      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001853      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001854      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001855      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001856      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001857      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001858      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001859      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001860      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001861      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001862      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001863      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001864      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001865      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001866      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001867      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001868      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001869      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001870      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001871      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001872      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001873      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001874      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001875      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001876      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001877      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001878      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001879      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001880      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001881      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001882      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001883      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001884      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001885      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001886      0.000001367      3.49     10.23      3.25
   SRCPARAM L0001887      0.000001367      3.49     10.23      3.25
** ---------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE19
   SRCPARAM L0001888      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001889      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001890      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001891      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001892      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001893      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001894      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001895      0.0000001775     3.49      4.00      3.25
   SRCPARAM L0001896      0.0000001775     3.49      4.00      3.25
```

```
SRCPARAM L0001897    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001898    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001899    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001900    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001901    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001902    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001903    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001904    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001905    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001906    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001907    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001908    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001909    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001910    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001911    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001912    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001913    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001914    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001915    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001916    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001917    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001918    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001919    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001920    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001921    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001922    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001923    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001924    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001925    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001926    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001927    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001928    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001929    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001930    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001931    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001932    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001933    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001934    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001935    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001936    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001937    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001938    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001939    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001940    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001941    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001942    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001943    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001944    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001945    0.0000001775    3.49    4.00    3.25
SRCPARAM L0001946    0.0000001775    3.49    4.00    3.25
```

```
   SRCPARAM L0001947     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001948     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001949     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001950     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001951     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001952     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001953     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001954     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001955     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001956     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001957     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001958     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001959     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001960     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001961     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001962     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001963     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001964     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001965     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001966     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001967     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001968     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001969     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001970     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001971     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001972     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001973     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001974     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001975     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001976     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001977     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001978     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001979     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001980     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001981     0.0000001775      3.49      4.00      3.25
   SRCPARAM L0001982     0.0000001775      3.49      4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE20
   SRCPARAM L0001983     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001984     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001985     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001986     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001987     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001988     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001989     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001990     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001991     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001992     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001993     0.00000008885     3.49      4.00      3.25
   SRCPARAM L0001994     0.00000008885     3.49      4.00      3.25
```

```
SRCPARAM L0001995    0.00000008885    3.49    4.00    3.25
SRCPARAM L0001996    0.00000008885    3.49    4.00    3.25
SRCPARAM L0001997    0.00000008885    3.49    4.00    3.25
SRCPARAM L0001998    0.00000008885    3.49    4.00    3.25
SRCPARAM L0001999    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002000    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002001    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002002    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002003    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002004    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002005    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002006    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002007    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002008    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002009    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002010    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002011    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002012    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002013    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002014    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002015    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002016    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002017    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002018    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002019    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002020    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002021    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002022    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002023    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002024    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002025    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002026    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002027    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002028    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002029    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002030    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002031    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002032    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002033    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002034    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002035    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002036    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002037    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002038    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002039    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002040    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002041    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002042    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002043    0.00000008885    3.49    4.00    3.25
SRCPARAM L0002044    0.00000008885    3.49    4.00    3.25
```

```
    SRCPARAM L0002045      0.00000008885      3.49      4.00      3.25
    SRCPARAM L0002046      0.00000008885      3.49      4.00      3.25
    SRCPARAM L0002047      0.00000008885      3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME SOURCE ID = SLINE21
    SRCPARAM L0002048      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002049      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002050      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002051      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002052      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002053      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002054      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002055      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002056      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002057      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002058      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002059      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002060      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002061      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002062      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002063      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002064      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002065      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002066      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002067      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002068      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002069      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002070      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002071      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002072      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002073      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002074      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002075      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002076      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002077      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002078      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002079      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002080      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002081      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002082      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002083      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002084      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002085      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002086      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002087      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002088      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002089      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002090      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002091      0.00000008895      3.49      4.00      3.25
    SRCPARAM L0002092      0.00000008895      3.49      4.00      3.25
```

```
   SRCPARAM L0002093        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002094        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002095        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002096        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002097        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002098        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002099        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002100        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002101        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002102        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002103        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002104        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002105        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002106        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002107        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002108        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002109        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002110        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002111        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002112        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002113        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002114        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002115        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002116        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002117        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002118        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002119        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002120        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002121        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002122        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002123        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002124        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002125        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002126        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002127        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002128        0.00000008895        3.49     4.00      3.25
   SRCPARAM L0002129        0.00000008895        3.49     4.00      3.25
** --------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE22
   SRCPARAM L0002130        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002131        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002132        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002133        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002134        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002135        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002136        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002137        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002138        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002139        0.00000008878        3.49     4.00      3.25
   SRCPARAM L0002140        0.00000008878        3.49     4.00      3.25
```

```
SRCPARAM L0002141      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002142      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002143      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002144      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002145      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002146      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002147      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002148      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002149      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002150      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002151      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002152      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002153      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002154      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002155      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002156      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002157      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002158      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002159      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002160      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002161      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002162      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002163      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002164      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002165      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002166      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002167      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002168      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002169      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002170      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002171      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002172      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002173      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002174      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002175      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002176      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002177      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002178      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002179      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002180      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002181      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002182      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002183      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002184      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002185      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002186      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002187      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002188      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002189      0.00000008878        3.49      4.00      3.25
SRCPARAM L0002190      0.00000008878        3.49      4.00      3.25
```

```
SRCPARAM L0002191    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002192    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002193    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002194    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002195    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002196    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002197    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002198    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002199    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002200    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002201    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002202    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002203    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002204    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002205    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002206    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002207    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002208    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002209    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002210    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002211    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002212    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002213    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002214    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002215    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002216    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002217    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002218    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002219    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002220    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002221    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002222    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002223    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002224    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002225    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002226    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002227    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002228    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002229    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002230    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002231    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002232    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002233    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002234    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002235    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002236    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002237    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002238    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002239    0.00000008878    3.49    4.00    3.25
SRCPARAM L0002240    0.00000008878    3.49    4.00    3.25
```

```
    SRCPARAM L0002241        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002242        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002243        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002244        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002245        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002246        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002247        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002248        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002249        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002250        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002251        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002252        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002253        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002254        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002255        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002256        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002257        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002258        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002259        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002260        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002261        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002262        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002263        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002264        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002265        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002266        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002267        0.00000008878         3.49        4.00        3.25
    SRCPARAM L0002268        0.00000008878         3.49        4.00        3.25
**  -----------------------------------------------------------------
    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
***************************************
** AERMOD RECEPTOR PATHWAY
***************************************
**
**
RE STARTING
    INCLUDED "13157 OPS HRA.ROU"
RE FINISHED
**
***************************************
** AERMOD METEOROLOGY PATHWAY
***************************************
**
**
ME STARTING
    SURFFILE FULLERTONAIRPORTADJU\KFUL_V9_ADJU\KFUL_V9.SFC
    PROFFILE FULLERTONAIRPORTADJU\KFUL_V9_ADJU\KFUL_V9.PFL
```

```
       SURFDATA 3166 2012
       UAIRDATA 3190 2012
       PROFBASE 29.0 METERS
ME FINISHED
**
***************************************
** AERMOD OUTPUT PATHWAY
***************************************
**
**
OU STARTING
** AUTO-GENERATED PLOTFILES
      PLOTFILE   ANNUAL ALL "13157 OPS HRA.AD\AN00GALL.PLT" 31
      SUMMFILE "13157 OPS 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    2503       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    2503       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

♠ *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC              ***        06/03/20
 *** AERMET - VERSION  16216 ***   ***
                        ***        11:41:47


                           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 1022 Source(s),
   for Total of   1 Urban Area(s):
   Urban Population =   3010232.0 ; Urban Roughness Length = 1.000 m

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

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

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of: DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes: 1022 Source(s);   1 Source Group(s); and   9
 Receptor(s)

                with: 0 POINT(s), including
                           0 POINTCAP(s) and   0 POINTHOR(s)
                 and: 1022 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) =   29.00 ; 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 =   3.9 MB of RAM.

 **Input Runstream File: aermod.inp

 **Output Print File: aermod.out

 **Detailed Error/Message File: 13157 OPS HRA.ERR

 **File for Summary of Results: 13157 OPS HRA.SUM

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

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

                                        *** VOLUME SOURCE DATA ***

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

```
L0001247        0   0.79000E-05  417049.6 3747267.7   55.0    3.49    4.00
3.25     YES
L0001248        0   0.79000E-05  417049.6 3747259.2   55.0    3.49    4.00
3.25     YES
L0001249        0   0.79000E-05  417049.6 3747250.6   55.0    3.49    4.00
3.25     YES
L0001250        0   0.79000E-05  417049.6 3747242.0   55.0    3.49    4.00
3.25     YES
L0001251        0   0.79000E-05  417049.6 3747233.4   54.9    3.49    4.00
3.25     YES
L0001252        0   0.79000E-05  417049.6 3747224.8   54.9    3.49    4.00
3.25     YES
L0001253        0   0.79000E-05  417049.6 3747216.2   54.9    3.49    4.00
3.25     YES
L0001254        0   0.79000E-05  417049.6 3747207.6   54.9    3.49    4.00
3.25     YES
L0001255        0   0.79000E-05  417049.6 3747199.0   54.9    3.49    4.00
3.25     YES
L0001256        0   0.79000E-05  417049.6 3747190.4   54.9    3.49    4.00
3.25     YES
L0001257        0   0.79000E-05  417049.6 3747181.8   54.9    3.49    4.00
3.25     YES
L0001258        0   0.79000E-05  417049.6 3747173.3   54.8    3.49    4.00
3.25     YES
L0001259        0   0.79000E-05  417049.6 3747164.7   54.7    3.49    4.00
3.25     YES
L0001260        0   0.79000E-05  417049.6 3747156.1   54.6    3.49    4.00
3.25     YES
L0001261        0   0.79000E-05  417049.6 3747147.5   54.6    3.49    4.00
3.25     YES
L0001262        0   0.79000E-05  417049.6 3747138.9   54.5    3.49    4.00
3.25     YES
L0001263        0   0.79000E-05  417049.6 3747130.3   54.4    3.49    4.00
3.25     YES
L0001264        0   0.79000E-05  417049.6 3747121.7   54.3    3.49    4.00
3.25     YES
L0001265        0   0.79000E-05  417049.6 3747113.1   54.2    3.49    4.00
3.25     YES
L0001266        0   0.79000E-05  417049.6 3747104.5   54.2    3.49    4.00
3.25     YES
L0001267        0   0.79000E-05  417049.6 3747095.9   54.1    3.49    4.00
3.25     YES
L0001268        0   0.79000E-05  417049.6 3747087.4   54.0    3.49    4.00
3.25     YES
L0001269        0   0.79000E-05  417049.6 3747078.8   54.0    3.49    4.00
3.25     YES
L0001270        0   0.79000E-05  417049.6 3747070.2   54.0    3.49    4.00
3.25     YES
L0001271        0   0.79000E-05  417049.6 3747061.6   54.0    3.49    4.00
```

```
3.25      YES
 L0001272          0   0.79000E-05  417049.6 3747053.0    54.0    3.49    4.00
3.25      YES
 L0001273          0   0.79000E-05  417049.6 3747044.4    53.9    3.49    4.00
3.25      YES
 L0001274          0   0.79000E-05  417049.6 3747035.8    53.9    3.49    4.00
3.25      YES
 L0001275          0   0.90320E-06  417125.3 3747262.8    55.8    3.49    4.00
3.25      YES
 L0001276          0   0.90320E-06  417125.3 3747254.2    55.7    3.49    4.00
3.25      YES
 L0001277          0   0.90320E-06  417125.3 3747245.7    55.6    3.49    4.00
3.25      YES
 L0001278          0   0.90320E-06  417125.3 3747237.1    55.5    3.49    4.00
3.25      YES
 L0001279          0   0.90320E-06  417125.3 3747228.5    55.4    3.49    4.00
3.25      YES
 L0001280          0   0.90320E-06  417125.3 3747219.9    55.4    3.49    4.00
3.25      YES
 L0001281          0   0.90320E-06  417125.3 3747211.3    55.3    3.49    4.00
3.25      YES
 L0001282          0   0.90320E-06  417125.3 3747202.7    55.2    3.49    4.00
3.25      YES
 L0001283          0   0.90320E-06  417125.3 3747194.1    55.1    3.49    4.00
3.25      YES
 L0001284          0   0.90320E-06  417125.3 3747185.5    55.1    3.49    4.00
3.25      YES
 L0001285          0   0.90320E-06  417125.3 3747176.9    55.0    3.49    4.00
3.25      YES
 L0001286          0   0.90320E-06  417125.3 3747168.3    55.0    3.49    4.00
3.25      YES
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                          PAGE   3

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                          *** VOLUME SOURCE DATA ***

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

L0001287	0	0.90320E-06	417125.3	3747159.8	55.0	3.49	4.00	3.25	YES
L0001288	0	0.90320E-06	417125.3	3747151.2	55.0	3.49	4.00	3.25	YES
L0001289	0	0.90320E-06	417125.3	3747142.6	54.9	3.49	4.00	3.25	YES
L0001290	0	0.90320E-06	417125.3	3747134.0	54.9	3.49	4.00	3.25	YES
L0001291	0	0.90320E-06	417125.3	3747125.4	54.9	3.49	4.00	3.25	YES
L0001292	0	0.90320E-06	417125.3	3747116.8	54.9	3.49	4.00	3.25	YES
L0001293	0	0.90320E-06	417125.3	3747108.2	54.9	3.49	4.00	3.25	YES
L0001294	0	0.90320E-06	417125.3	3747099.6	54.9	3.49	4.00	3.25	YES
L0001295	0	0.90320E-06	417125.3	3747091.0	54.9	3.49	4.00	3.25	YES
L0001296	0	0.90320E-06	417125.3	3747082.4	54.8	3.49	4.00	3.25	YES
L0001297	0	0.90320E-06	417125.3	3747073.9	54.8	3.49	4.00	3.25	YES
L0001298	0	0.90320E-06	417125.3	3747065.3	54.7	3.49	4.00	3.25	YES
L0001299	0	0.90320E-06	417125.3	3747056.7	54.6	3.49	4.00	3.25	YES
L0001300	0	0.90320E-06	417125.3	3747048.1	54.5	3.49	4.00	3.25	YES
L0001301	0	0.90320E-06	417125.3	3747039.5	54.4	3.49	4.00	3.25	YES
L0001302	0	0.90320E-06	417125.3	3747030.9	54.3	3.49	4.00	3.25	YES
L0001303	0	0.90320E-06	417298.5	3747266.9	56.0	3.49	4.00	3.25	YES
L0001304	0	0.90320E-06	417298.5	3747258.3	56.0	3.49	4.00	3.25	YES
L0001305	0	0.90320E-06	417298.5	3747249.7	56.0	3.49	4.00	3.25	YES
L0001306	0	0.90320E-06	417298.5	3747241.1	56.0	3.49	4.00	3.25	YES
L0001307	0	0.90320E-06	417298.5	3747232.5	56.0	3.49	4.00	3.25	YES
L0001308	0	0.90320E-06	417298.5	3747223.9	56.0	3.49	4.00	3.25	YES
L0001309	0	0.90320E-06	417298.5	3747215.4	56.0	3.49	4.00	3.25	YES
L0001310	0	0.90320E-06	417298.5	3747206.8	56.0	3.49	4.00	3.25	YES
L0001311	0	0.90320E-06	417298.5	3747198.2	56.0	3.49	4.00		

```
3.25     YES
 L0001312        0   0.90320E-06  417298.5 3747189.6    56.0     3.49     4.00
3.25     YES
 L0001313        0   0.90320E-06  417298.5 3747181.0    56.0     3.49     4.00
3.25     YES
 L0001314        0   0.90320E-06  417298.5 3747172.4    55.9     3.49     4.00
3.25     YES
 L0001315        0   0.90320E-06  417298.5 3747163.8    55.9     3.49     4.00
3.25     YES
 L0001316        0   0.90320E-06  417298.5 3747155.2    55.8     3.49     4.00
3.25     YES
 L0001317        0   0.90320E-06  417298.5 3747146.6    55.7     3.49     4.00
3.25     YES
 L0001318        0   0.90320E-06  417298.5 3747138.0    55.6     3.49     4.00
3.25     YES
 L0001319        0   0.90320E-06  417298.5 3747129.5    55.5     3.49     4.00
3.25     YES
 L0001320        0   0.90320E-06  417298.5 3747120.9    55.4     3.49     4.00
3.25     YES
 L0001321        0   0.90320E-06  417298.5 3747112.3    55.4     3.49     4.00
3.25     YES
 L0001322        0   0.90320E-06  417298.5 3747103.7    55.3     3.49     4.00
3.25     YES
 L0001323        0   0.90320E-06  417298.5 3747095.1    55.2     3.49     4.00
3.25     YES
 L0001324        0   0.90320E-06  417298.5 3747086.5    55.1     3.49     4.00
3.25     YES
 L0001325        0   0.90320E-06  417298.5 3747077.9    55.1     3.49     4.00
3.25     YES
 L0001326        0   0.90320E-06  417298.5 3747069.3    55.1     3.49     4.00
3.25     YES
```

↑ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                              PAGE   4

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                         *** VOLUME SOURCE DATA ***

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

```
L0001327        0   0.90320E-06  417298.5 3747060.7    55.1    3.49    4.00
3.25    YES
L0001328        0   0.90320E-06  417298.5 3747052.1    55.1    3.49    4.00
3.25    YES
L0001329        0   0.90320E-06  417298.5 3747043.6    55.1    3.49    4.00
3.25    YES
L0001330        0   0.90320E-06  417298.5 3747035.0    55.0    3.49    4.00
3.25    YES
L0001331        0   0.90320E-06  417385.2 3747262.6    56.2    3.49    4.00
3.25    YES
L0001332        0   0.90320E-06  417385.2 3747254.0    56.2    3.49    4.00
3.25    YES
L0001333        0   0.90320E-06  417385.2 3747245.4    56.2    3.49    4.00
3.25    YES
L0001334        0   0.90320E-06  417385.2 3747236.8    56.2    3.49    4.00
3.25    YES
L0001335        0   0.90320E-06  417385.2 3747228.2    56.2    3.49    4.00
3.25    YES
L0001336        0   0.90320E-06  417385.2 3747219.6    56.2    3.49    4.00
3.25    YES
L0001337        0   0.90320E-06  417385.2 3747211.1    56.2    3.49    4.00
3.25    YES
L0001338        0   0.90320E-06  417385.2 3747202.5    56.2    3.49    4.00
3.25    YES
L0001339        0   0.90320E-06  417385.2 3747193.9    56.2    3.49    4.00
3.25    YES
L0001340        0   0.90320E-06  417385.2 3747185.3    56.2    3.49    4.00
3.25    YES
L0001341        0   0.90320E-06  417385.2 3747176.7    56.2    3.49    4.00
3.25    YES
L0001342        0   0.90320E-06  417385.2 3747168.1    56.2    3.49    4.00
3.25    YES
L0001343        0   0.90320E-06  417385.2 3747159.5    56.2    3.49    4.00
3.25    YES
L0001344        0   0.90320E-06  417385.2 3747150.9    56.2    3.49    4.00
3.25    YES
L0001345        0   0.90320E-06  417385.2 3747142.3    56.1    3.49    4.00
3.25    YES
L0001346        0   0.90320E-06  417385.2 3747133.7    56.1    3.49    4.00
3.25    YES
L0001347        0   0.90320E-06  417385.2 3747125.2    56.1    3.49    4.00
3.25    YES
L0001348        0   0.90320E-06  417385.2 3747116.6    56.1    3.49    4.00
3.25    YES
L0001349        0   0.90320E-06  417385.2 3747108.0    56.1    3.49    4.00
3.25    YES
L0001350        0   0.90320E-06  417385.2 3747099.4    56.0    3.49    4.00
3.25    YES
L0001351        0   0.90320E-06  417385.2 3747090.8    56.0    3.49    4.00
```

```
3.25     YES
 L0001352         0  0.90320E-06  417385.2 3747082.2    56.0     3.49     4.00
3.25     YES
 L0001353         0  0.90320E-06  417385.2 3747073.6    55.9     3.49     4.00
3.25     YES
 L0001354         0  0.90320E-06  417385.2 3747065.0    55.8     3.49     4.00
3.25     YES
 L0001355         0  0.90320E-06  417385.2 3747056.4    55.8     3.49     4.00
3.25     YES
 L0001356         0  0.90320E-06  417385.2 3747047.8    55.7     3.49     4.00
3.25     YES
 L0001357         0  0.90320E-06  417385.2 3747039.3    55.6     3.49     4.00
3.25     YES
 L0001358         0  0.90320E-06  417385.2 3747030.7    55.6     3.49     4.00
3.25     YES
 L0001359         0  0.90320E-06  417558.6 3747262.6    57.9     3.49     4.00
3.25     YES
 L0001360         0  0.90320E-06  417558.6 3747254.0    57.8     3.49     4.00
3.25     YES
 L0001361         0  0.90320E-06  417558.6 3747245.4    57.8     3.49     4.00
3.25     YES
 L0001362         0  0.90320E-06  417558.6 3747236.8    57.7     3.49     4.00
3.25     YES
 L0001363         0  0.90320E-06  417558.6 3747228.2    57.6     3.49     4.00
3.25     YES
 L0001364         0  0.90320E-06  417558.6 3747219.6    57.5     3.49     4.00
3.25     YES
 L0001365         0  0.90320E-06  417558.6 3747211.1    57.4     3.49     4.00
3.25     YES
 L0001366         0  0.90320E-06  417558.6 3747202.5    57.3     3.49     4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                           ***   11:41:47

                                    PAGE   5

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                              *** VOLUME SOURCE DATA ***

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

L0001367	0	0.90320E-06	417558.6	3747193.9	57.2	3.49	4.00	
3.25	YES							
L0001368	0	0.90320E-06	417558.6	3747185.3	57.1	3.49	4.00	
3.25	YES							
L0001369	0	0.90320E-06	417558.6	3747176.7	57.0	3.49	4.00	
3.25	YES							
L0001370	0	0.90320E-06	417558.6	3747168.1	57.0	3.49	4.00	
3.25	YES							
L0001371	0	0.90320E-06	417558.6	3747159.5	57.0	3.49	4.00	
3.25	YES							
L0001372	0	0.90320E-06	417558.6	3747150.9	57.0	3.49	4.00	
3.25	YES							
L0001373	0	0.90320E-06	417558.6	3747142.3	57.0	3.49	4.00	
3.25	YES							
L0001374	0	0.90320E-06	417558.6	3747133.7	57.0	3.49	4.00	
3.25	YES							
L0001375	0	0.90320E-06	417558.6	3747125.2	57.0	3.49	4.00	
3.25	YES							
L0001376	0	0.90320E-06	417558.6	3747116.6	57.0	3.49	4.00	
3.25	YES							
L0001377	0	0.90320E-06	417558.6	3747108.0	57.0	3.49	4.00	
3.25	YES							
L0001378	0	0.90320E-06	417558.6	3747099.4	57.0	3.49	4.00	
3.25	YES							
L0001379	0	0.90320E-06	417558.6	3747090.8	57.0	3.49	4.00	
3.25	YES							
L0001380	0	0.90320E-06	417558.6	3747082.2	57.0	3.49	4.00	
3.25	YES							
L0001381	0	0.90320E-06	417558.6	3747073.6	56.9	3.49	4.00	
3.25	YES							
L0001382	0	0.90320E-06	417558.6	3747065.0	56.8	3.49	4.00	
3.25	YES							
L0001383	0	0.90320E-06	417558.6	3747056.4	56.7	3.49	4.00	
3.25	YES							
L0001384	0	0.90320E-06	417558.6	3747047.8	56.6	3.49	4.00	
3.25	YES							
L0001385	0	0.90320E-06	417558.6	3747039.3	56.5	3.49	4.00	
3.25	YES							
L0001386	0	0.90320E-06	417558.6	3747030.7	56.4	3.49	4.00	
3.25	YES							
L0001387	0	0.99670E-06	417617.6	3747260.0	57.9	3.49	4.00	
3.25	YES							
L0001388	0	0.99670E-06	417617.7	3747251.4	57.8	3.49	4.00	
3.25	YES							
L0001389	0	0.99670E-06	417617.8	3747242.8	57.7	3.49	4.00	
3.25	YES							
L0001390	0	0.99670E-06	417617.8	3747234.2	57.6	3.49	4.00	
3.25	YES							
L0001391	0	0.99670E-06	417617.9	3747225.6	57.5	3.49	4.00	

```
3.25     YES
 L0001392      0   0.99670E-06  417618.0 3747217.0   57.5    3.49    4.00
3.25     YES
 L0001393      0   0.99670E-06  417618.0 3747208.4   57.4    3.49    4.00
3.25     YES
 L0001394      0   0.99670E-06  417618.1 3747199.9   57.3    3.49    4.00
3.25     YES
 L0001395      0   0.99670E-06  417618.2 3747191.3   57.2    3.49    4.00
3.25     YES
 L0001396      0   0.99670E-06  417618.2 3747182.7   57.1    3.49    4.00
3.25     YES
 L0001397      0   0.99670E-06  417618.3 3747174.1   57.0    3.49    4.00
3.25     YES
 L0001398      0   0.99670E-06  417618.4 3747165.5   57.0    3.49    4.00
3.25     YES
 L0001399      0   0.12080E-05  417067.3 3747325.2   55.6    3.49    4.00
3.25     YES
 L0001400      0   0.12080E-05  417067.2 3747316.6   55.5    3.49    4.00
3.25     YES
 L0001401      0   0.12080E-05  417067.2 3747308.0   55.4    3.49    4.00
3.25     YES
 L0001402      0   0.12080E-05  417067.1 3747299.5   55.4    3.49    4.00
3.25     YES
 L0001403      0   0.12080E-05  417067.0 3747290.9   55.3    3.49    4.00
3.25     YES
 L0001404      0   0.12080E-05  417067.0 3747282.3   55.2    3.49    4.00
3.25     YES
 L0001405      0   0.12080E-05  417066.9 3747273.7   55.1    3.49    4.00
3.25     YES
 L0001406      0   0.12080E-05  417066.9 3747265.1   55.1    3.49    4.00
3.25     YES
```

⬧ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                     ***   11:41:47

                            PAGE   6

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                        *** VOLUME SOURCE DATA ***

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

```
L0001407        0   0.12080E-05  417066.8 3747256.5   55.1    3.49    4.00
3.25    YES
L0001408        0   0.12080E-05  417066.7 3747247.9   55.1    3.49    4.00
3.25    YES
L0001409        0   0.12080E-05  417066.7 3747239.3   55.1    3.49    4.00
3.25    YES
L0001410        0   0.12080E-05  417066.6 3747230.7   55.0    3.49    4.00
3.25    YES
L0001411        0   0.12080E-05  417066.5 3747222.1   55.0    3.49    4.00
3.25    YES
L0001412        0   0.12080E-05  417066.5 3747213.6   55.0    3.49    4.00
3.25    YES
L0001413        0   0.12080E-05  417066.4 3747205.0   55.0    3.49    4.00
3.25    YES
L0001414        0   0.12080E-05  417066.4 3747196.4   55.0    3.49    4.00
3.25    YES
L0001415        0   0.12080E-05  417066.3 3747187.8   55.0    3.49    4.00
3.25    YES
L0001416        0   0.12080E-05  417066.2 3747179.2   55.0    3.49    4.00
3.25    YES
L0001417        0   0.12080E-05  417066.2 3747170.6   54.9    3.49    4.00
3.25    YES
L0001418        0   0.12080E-05  417066.1 3747162.0   54.8    3.49    4.00
3.25    YES
L0001419        0   0.12080E-05  417066.1 3747153.4   54.7    3.49    4.00
3.25    YES
L0001420        0   0.12080E-05  417066.0 3747144.8   54.7    3.49    4.00
3.25    YES
L0001421        0   0.12080E-05  417065.9 3747136.3   54.6    3.49    4.00
3.25    YES
L0001422        0   0.12080E-05  417065.9 3747127.7   54.5    3.49    4.00
3.25    YES
L0001423        0   0.12080E-05  417065.8 3747119.1   54.4    3.49    4.00
3.25    YES
L0001424        0   0.12080E-05  417065.7 3747110.5   54.3    3.49    4.00
3.25    YES
L0001425        0   0.12080E-05  417065.7 3747101.9   54.2    3.49    4.00
3.25    YES
L0001426        0   0.12080E-05  417065.6 3747093.3   54.1    3.49    4.00
3.25    YES
L0001427        0   0.12080E-05  417065.6 3747084.7   54.1    3.49    4.00
3.25    YES
L0001428        0   0.12080E-05  417065.5 3747076.1   54.1    3.49    4.00
3.25    YES
L0001429        0   0.12080E-05  417065.4 3747067.5   54.1    3.49    4.00
3.25    YES
L0001430        0   0.12080E-05  417065.4 3747058.9   54.1    3.49    4.00
3.25    YES
L0001431        0   0.12080E-05  417065.3 3747050.4   54.0    3.49    4.00
```

```
3.25     YES
 L0001432        0   0.12080E-05  417065.3 3747041.8    54.0     3.49     4.00
3.25     YES
 L0001433        0   0.12080E-05  417065.2 3747033.2    54.0     3.49     4.00
3.25     YES
 L0001434        0   0.12080E-05  417065.1 3747024.6    54.0     3.49     4.00
3.25     YES
 L0001435        0   0.12080E-05  417065.1 3747016.0    54.0     3.49     4.00
3.25     YES
 L0001436        0   0.12080E-05  417065.0 3747007.4    54.0     3.49     4.00
3.25     YES
 L0001437        0   0.12080E-05  417064.9 3746998.8    54.0     3.49     4.00
3.25     YES
 L0001438        0   0.12080E-05  417064.9 3746990.2    54.0     3.49     4.00
3.25     YES
 L0001439        0   0.12080E-05  417064.8 3746981.6    53.9     3.49     4.00
3.25     YES
 L0001440        0   0.12080E-05  417064.8 3746973.0    53.8     3.49     4.00
3.25     YES
 L0001441        0   0.12010E-05  417123.1 3747331.2    55.9     3.49     4.00
3.25     YES
 L0001442        0   0.12010E-05  417123.1 3747322.6    55.9     3.49     4.00
3.25     YES
 L0001443        0   0.12010E-05  417116.7 3747318.5    55.9     3.49     4.00
3.25     YES
 L0001444        0   0.12010E-05  417110.6 3747313.4    55.8     3.49     4.00
3.25     YES
 L0001445        0   0.12010E-05  417107.3 3747305.5    55.8     3.49     4.00
3.25     YES
 L0001446        0   0.12010E-05  417105.9 3747297.1    55.7     3.49     4.00
3.25     YES
```

↑ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

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

                                              *** VOLUME SOURCE DATA ***

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

```
L0001447       0   0.12010E-05  417105.9 3747288.5    55.7    3.49    4.00
3.25     YES
L0001448       0   0.12010E-05  417105.9 3747280.0    55.6    3.49    4.00
3.25     YES
L0001449       0   0.12010E-05  417105.9 3747271.4    55.6    3.49    4.00
3.25     YES
L0001450       0   0.12010E-05  417105.9 3747262.8    55.5    3.49    4.00
3.25     YES
L0001451       0   0.12010E-05  417105.9 3747254.2    55.5    3.49    4.00
3.25     YES
L0001452       0   0.12010E-05  417105.9 3747245.6    55.4    3.49    4.00
3.25     YES
L0001453       0   0.12010E-05  417105.9 3747237.0    55.4    3.49    4.00
3.25     YES
L0001454       0   0.12010E-05  417105.9 3747228.4    55.3    3.49    4.00
3.25     YES
L0001455       0   0.12010E-05  417105.9 3747219.8    55.3    3.49    4.00
3.25     YES
L0001456       0   0.12010E-05  417105.9 3747211.2    55.2    3.49    4.00
3.25     YES
L0001457       0   0.12010E-05  417105.9 3747202.6    55.1    3.49    4.00
3.25     YES
L0001458       0   0.12010E-05  417105.9 3747194.1    55.1    3.49    4.00
3.25     YES
L0001459       0   0.12010E-05  417105.9 3747185.5    55.0    3.49    4.00
3.25     YES
L0001460       0   0.12010E-05  417105.9 3747176.9    55.0    3.49    4.00
3.25     YES
L0001461       0   0.12010E-05  417105.9 3747168.3    54.9    3.49    4.00
3.25     YES
L0001462       0   0.12010E-05  417105.9 3747159.7    54.9    3.49    4.00
3.25     YES
L0001463       0   0.12010E-05  417105.9 3747151.1    54.9    3.49    4.00
3.25     YES
L0001464       0   0.12010E-05  417105.9 3747142.5    54.8    3.49    4.00
3.25     YES
L0001465       0   0.12010E-05  417105.9 3747133.9    54.8    3.49    4.00
3.25     YES
L0001466       0   0.12010E-05  417105.9 3747125.3    54.8    3.49    4.00
3.25     YES
L0001467       0   0.12010E-05  417105.9 3747116.7    54.7    3.49    4.00
3.25     YES
L0001468       0   0.12010E-05  417105.9 3747108.2    54.7    3.49    4.00
3.25     YES
L0001469       0   0.12010E-05  417105.9 3747099.6    54.7    3.49    4.00
3.25     YES
L0001470       0   0.12010E-05  417105.9 3747091.0    54.6    3.49    4.00
3.25     YES
L0001471       0   0.12010E-05  417105.9 3747082.4    54.6    3.49    4.00
```

```
3.25    YES
 L0001472        0   0.12010E-05  417105.9 3747073.8    54.5     3.49     4.00
3.25    YES
 L0001473        0   0.12010E-05  417105.9 3747065.2    54.5     3.49     4.00
3.25    YES
 L0001474        0   0.12010E-05  417105.9 3747056.6    54.4     3.49     4.00
3.25    YES
 L0001475        0   0.12010E-05  417105.9 3747048.0    54.4     3.49     4.00
3.25    YES
 L0001476        0   0.12010E-05  417105.9 3747039.4    54.3     3.49     4.00
3.25    YES
 L0001477        0   0.12010E-05  417105.9 3747030.8    54.2     3.49     4.00
3.25    YES
 L0001478        0   0.12010E-05  417105.9 3747022.3    54.2     3.49     4.00
3.25    YES
 L0001479        0   0.12010E-05  417105.9 3747013.7    54.1     3.49     4.00
3.25    YES
 L0001480        0   0.12010E-05  417105.9 3747005.1    54.1     3.49     4.00
3.25    YES
 L0001481        0   0.12010E-05  417105.9 3746996.5    54.0     3.49     4.00
3.25    YES
 L0001482        0   0.12010E-05  417110.9 3746991.8    54.0     3.49     4.00
3.25    YES
 L0001483        0   0.12010E-05  417117.6 3746987.7    54.0     3.49     4.00
3.25    YES
 L0001484        0   0.12010E-05  417120.2 3746979.8    54.0     3.49     4.00
3.25    YES
 L0001485        0   0.37690E-06  417312.8 3747329.5    56.2     3.49     4.00
3.25    YES
 L0001486        0   0.37690E-06  417312.8 3747320.9    56.1     3.49     4.00
3.25    YES
```

⮝ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

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

                                              *** VOLUME SOURCE DATA ***

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

```
L0001487        0   0.37690E-06  417312.8 3747312.3   56.1    3.49    4.00
3.25    YES
L0001488        0   0.37690E-06  417312.8 3747303.7   56.1    3.49    4.00
3.25    YES
L0001489        0   0.37690E-06  417312.8 3747295.2   56.1    3.49    4.00
3.25    YES
L0001490        0   0.37690E-06  417312.8 3747286.6   56.0    3.49    4.00
3.25    YES
L0001491        0   0.37690E-06  417312.8 3747278.0   56.0    3.49    4.00
3.25    YES
L0001492        0   0.37690E-06  417312.8 3747269.4   56.0    3.49    4.00
3.25    YES
L0001493        0   0.37690E-06  417312.8 3747260.8   56.0    3.49    4.00
3.25    YES
L0001494        0   0.37690E-06  417312.8 3747252.2   56.0    3.49    4.00
3.25    YES
L0001495        0   0.37690E-06  417312.8 3747243.6   56.0    3.49    4.00
3.25    YES
L0001496        0   0.37690E-06  417312.8 3747235.0   56.0    3.49    4.00
3.25    YES
L0001497        0   0.37690E-06  417312.8 3747226.4   56.0    3.49    4.00
3.25    YES
L0001498        0   0.37690E-06  417312.8 3747217.8   56.0    3.49    4.00
3.25    YES
L0001499        0   0.37690E-06  417312.8 3747209.3   56.0    3.49    4.00
3.25    YES
L0001500        0   0.37690E-06  417312.8 3747200.7   56.0    3.49    4.00
3.25    YES
L0001501        0   0.37690E-06  417312.8 3747192.1   56.0    3.49    4.00
3.25    YES
L0001502        0   0.37690E-06  417312.8 3747183.5   56.0    3.49    4.00
3.25    YES
L0001503        0   0.37690E-06  417312.8 3747174.9   56.0    3.49    4.00
3.25    YES
L0001504        0   0.37690E-06  417312.8 3747166.3   55.9    3.49    4.00
3.25    YES
L0001505        0   0.37690E-06  417312.8 3747157.7   55.8    3.49    4.00
3.25    YES
L0001506        0   0.37690E-06  417312.8 3747149.1   55.8    3.49    4.00
3.25    YES
L0001507        0   0.37690E-06  417312.8 3747140.5   55.7    3.49    4.00
3.25    YES
L0001508        0   0.37690E-06  417312.8 3747131.9   55.6    3.49    4.00
3.25    YES
L0001509        0   0.37690E-06  417312.8 3747123.4   55.6    3.49    4.00
3.25    YES
L0001510        0   0.37690E-06  417312.8 3747114.8   55.5    3.49    4.00
3.25    YES
L0001511        0   0.37690E-06  417312.8 3747106.2   55.5    3.49    4.00
```

```
3.25     YES
 L0001512        0   0.37690E-06  417312.8 3747097.6    55.4     3.49     4.00
3.25     YES
 L0001513        0   0.37690E-06  417312.8 3747089.0    55.3     3.49     4.00
3.25     YES
 L0001514        0   0.37690E-06  417312.8 3747080.4    55.3     3.49     4.00
3.25     YES
 L0001515        0   0.37690E-06  417312.8 3747071.8    55.3     3.49     4.00
3.25     YES
 L0001516        0   0.37690E-06  417312.8 3747063.2    55.2     3.49     4.00
3.25     YES
 L0001517        0   0.37690E-06  417312.8 3747054.6    55.2     3.49     4.00
3.25     YES
 L0001518        0   0.37690E-06  417312.8 3747046.0    55.2     3.49     4.00
3.25     YES
 L0001519        0   0.37690E-06  417312.8 3747037.5    55.1     3.49     4.00
3.25     YES
 L0001520        0   0.37690E-06  417312.8 3747028.9    55.1     3.49     4.00
3.25     YES
 L0001521        0   0.37690E-06  417312.8 3747020.3    55.1     3.49     4.00
3.25     YES
 L0001522        0   0.37690E-06  417312.8 3747011.7    55.1     3.49     4.00
3.25     YES
 L0001523        0   0.37690E-06  417312.8 3747003.1    55.0     3.49     4.00
3.25     YES
 L0001524        0   0.37690E-06  417312.8 3746994.5    55.0     3.49     4.00
3.25     YES
 L0001525        0   0.37690E-06  417312.8 3746985.9    54.9     3.49     4.00
3.25     YES
 L0001526        0   0.37690E-06  417312.8 3746977.3    54.9     3.49     4.00
3.25     YES
```

                                      *** VOLUME SOURCE DATA ***

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

```
L0001527        0   0.37160E-06  417368.7 3747332.1   56.7   3.49   4.00
3.25     YES
L0001528        0   0.37160E-06  417368.7 3747323.5   56.6   3.49   4.00
3.25     YES
L0001529        0   0.37160E-06  417368.7 3747314.9   56.5   3.49   4.00
3.25     YES
L0001530        0   0.37160E-06  417368.8 3747306.3   56.4   3.49   4.00
3.25     YES
L0001531        0   0.37160E-06  417368.8 3747297.7   56.3   3.49   4.00
3.25     YES
L0001532        0   0.37160E-06  417368.9 3747289.1   56.2   3.49   4.00
3.25     YES
L0001533        0   0.37160E-06  417368.9 3747280.6   56.1   3.49   4.00
3.25     YES
L0001534        0   0.37160E-06  417368.9 3747272.0   56.0   3.49   4.00
3.25     YES
L0001535        0   0.37160E-06  417369.0 3747263.4   56.0   3.49   4.00
3.25     YES
L0001536        0   0.37160E-06  417369.0 3747254.8   56.0   3.49   4.00
3.25     YES
L0001537        0   0.37160E-06  417369.1 3747246.2   56.0   3.49   4.00
3.25     YES
L0001538        0   0.37160E-06  417369.1 3747237.6   56.0   3.49   4.00
3.25     YES
L0001539        0   0.37160E-06  417369.1 3747229.0   56.0   3.49   4.00
3.25     YES
L0001540        0   0.37160E-06  417369.2 3747220.4   56.0   3.49   4.00
3.25     YES
L0001541        0   0.37160E-06  417369.2 3747211.8   56.0   3.49   4.00
3.25     YES
L0001542        0   0.37160E-06  417369.3 3747203.2   56.0   3.49   4.00
3.25     YES
L0001543        0   0.37160E-06  417369.3 3747194.7   56.0   3.49   4.00
3.25     YES
L0001544        0   0.37160E-06  417369.3 3747186.1   56.0   3.49   4.00
3.25     YES
L0001545        0   0.37160E-06  417369.4 3747177.5   56.0   3.49   4.00
3.25     YES
L0001546        0   0.37160E-06  417369.4 3747168.9   56.0   3.49   4.00
3.25     YES
L0001547        0   0.37160E-06  417369.5 3747160.3   56.0   3.49   4.00
3.25     YES
L0001548        0   0.37160E-06  417369.5 3747151.7   56.0   3.49   4.00
3.25     YES
L0001549        0   0.37160E-06  417369.5 3747143.1   56.0   3.49   4.00
3.25     YES
L0001550        0   0.37160E-06  417369.6 3747134.5   56.0   3.49   4.00
3.25     YES
L0001551        0   0.37160E-06  417369.6 3747125.9   56.0   3.49   4.00
```

```
3.25     YES
 L0001552        0   0.37160E-06  417369.7 3747117.3   56.0     3.49     4.00
3.25     YES
 L0001553        0   0.37160E-06  417369.7 3747108.8   56.0     3.49     4.00
3.25     YES
 L0001554        0   0.37160E-06  417369.7 3747100.2   56.0     3.49     4.00
3.25     YES
 L0001555        0   0.37160E-06  417369.8 3747091.6   56.0     3.49     4.00
3.25     YES
 L0001556        0   0.37160E-06  417369.8 3747083.0   56.0     3.49     4.00
3.25     YES
 L0001557        0   0.37160E-06  417369.9 3747074.4   55.9     3.49     4.00
3.25     YES
 L0001558        0   0.37160E-06  417369.9 3747065.8   55.8     3.49     4.00
3.25     YES
 L0001559        0   0.37160E-06  417369.9 3747057.2   55.7     3.49     4.00
3.25     YES
 L0001560        0   0.37160E-06  417370.0 3747048.6   55.6     3.49     4.00
3.25     YES
 L0001561        0   0.37160E-06  417370.0 3747040.0   55.5     3.49     4.00
3.25     YES
 L0001562        0   0.37160E-06  417370.1 3747031.4   55.4     3.49     4.00
3.25     YES
 L0001563        0   0.37160E-06  417370.1 3747022.9   55.4     3.49     4.00
3.25     YES
 L0001564        0   0.37160E-06  417370.1 3747014.3   55.3     3.49     4.00
3.25     YES
 L0001565        0   0.37160E-06  417370.2 3747005.7   55.2     3.49     4.00
3.25     YES
 L0001566        0   0.37160E-06  417370.2 3746997.1   55.1     3.49     4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                              PAGE 10
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

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

```
L0001567      0    0.37160E-06   417370.3 3746988.5    55.0    3.49    4.00
3.25    YES
L0001568      0    0.37160E-06   417370.3 3746979.9    55.0    3.49    4.00
3.25    YES
L0001569      0    0.37160E-06   417370.3 3746971.3    55.0    3.49    4.00
3.25    YES
L0001570      0    0.37560E-06   417587.7 3747332.1    58.0    3.49    4.00
3.25    YES
L0001571      0    0.37560E-06   417588.0 3747323.5    58.0    3.49    4.00
3.25    YES
L0001572      0    0.37560E-06   417588.3 3747314.9    58.0    3.49    4.00
3.25    YES
L0001573      0    0.37560E-06   417583.4 3747309.0    58.0    3.49    4.00
3.25    YES
L0001574      0    0.37560E-06   417578.3 3747302.4    58.0    3.49    4.00
3.25    YES
L0001575      0    0.37560E-06   417577.5 3747293.9    58.0    3.49    4.00
3.25    YES
L0001576      0    0.37560E-06   417576.9 3747285.4    58.0    3.49    4.00
3.25    YES
L0001577      0    0.37560E-06   417576.3 3747276.8    58.0    3.49    4.00
3.25    YES
L0001578      0    0.37560E-06   417575.7 3747268.2    58.0    3.49    4.00
3.25    YES
L0001579      0    0.37560E-06   417575.1 3747259.6    57.9    3.49    4.00
3.25    YES
L0001580      0    0.37560E-06   417574.7 3747251.1    57.8    3.49    4.00
3.25    YES
L0001581      0    0.37560E-06   417574.7 3747242.5    57.7    3.49    4.00
3.25    YES
L0001582      0    0.37560E-06   417574.7 3747233.9    57.6    3.49    4.00
3.25    YES
L0001583      0    0.37560E-06   417574.7 3747225.3    57.5    3.49    4.00
3.25    YES
L0001584      0    0.37560E-06   417574.8 3747216.7    57.4    3.49    4.00
3.25    YES
L0001585      0    0.37560E-06   417574.8 3747208.1    57.4    3.49    4.00
3.25    YES
L0001586      0    0.37560E-06   417574.8 3747199.5    57.3    3.49    4.00
3.25    YES
L0001587      0    0.37560E-06   417574.8 3747190.9    57.2    3.49    4.00
3.25    YES
L0001588      0    0.37560E-06   417574.9 3747182.4    57.1    3.49    4.00
3.25    YES
L0001589      0    0.37560E-06   417574.9 3747173.8    57.0    3.49    4.00
3.25    YES
L0001590      0    0.37560E-06   417574.9 3747165.2    57.0    3.49    4.00
3.25    YES
L0001591      0    0.37560E-06   417575.0 3747156.6    57.0    3.49    4.00
```

```
3.25     YES
 L0001592       0  0.37560E-06  417575.0 3747148.0   57.0    3.49    4.00
3.25     YES
 L0001593       0  0.37560E-06  417575.0 3747139.4   57.0    3.49    4.00
3.25     YES
 L0001594       0  0.37560E-06  417575.0 3747130.8   57.0    3.49    4.00
3.25     YES
 L0001595       0  0.37560E-06  417575.1 3747122.2   57.0    3.49    4.00
3.25     YES
 L0001596       0  0.37560E-06  417575.1 3747113.6   57.0    3.49    4.00
3.25     YES
 L0001597       0  0.37560E-06  417575.1 3747105.0   57.0    3.49    4.00
3.25     YES
 L0001598       0  0.37560E-06  417575.1 3747096.5   57.0    3.49    4.00
3.25     YES
 L0001599       0  0.37560E-06  417575.2 3747087.9   57.0    3.49    4.00
3.25     YES
 L0001600       0  0.37560E-06  417575.2 3747079.3   57.0    3.49    4.00
3.25     YES
 L0001601       0  0.37560E-06  417575.2 3747070.7   56.9    3.49    4.00
3.25     YES
 L0001602       0  0.37560E-06  417575.2 3747062.1   56.8    3.49    4.00
3.25     YES
 L0001603       0  0.37560E-06  417575.3 3747053.5   56.7    3.49    4.00
3.25     YES
 L0001604       0  0.37560E-06  417575.3 3747044.9   56.6    3.49    4.00
3.25     YES
 L0001605       0  0.37560E-06  417575.3 3747036.3   56.5    3.49    4.00
3.25     YES
 L0001606       0  0.37560E-06  417575.3 3747027.7   56.4    3.49    4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                            PAGE 11
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

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

```
L0001607          0   0.37560E-06   417575.4 3747019.1    56.3    3.49    4.00
3.25     YES
L0001608          0   0.37560E-06   417575.4 3747010.6    56.2    3.49    4.00
3.25     YES
L0001609          0   0.37560E-06   417575.4 3747002.0    56.1    3.49    4.00
3.25     YES
L0001610          0   0.37560E-06   417575.4 3746993.4    56.0    3.49    4.00
3.25     YES
L0001611          0   0.37560E-06   417575.5 3746984.8    56.0    3.49    4.00
3.25     YES
L0001612          0   0.37560E-06   417575.5 3746976.2    56.0    3.49    4.00
3.25     YES
L0001613          0   0.17850E-06   417588.9 3747332.1    58.0    3.49    4.00
3.25     YES
L0001614          0   0.17850E-06   417588.2 3747323.5    58.0    3.49    4.00
3.25     YES
L0001615          0   0.17850E-06   417588.1 3747315.2    58.0    3.49    4.00
3.25     YES
L0001616          0   0.17850E-06   417593.9 3747308.8    58.0    3.49    4.00
3.25     YES
L0001617          0   0.17850E-06   417597.7 3747301.4    58.0    3.49    4.00
3.25     YES
L0001618          0   0.17850E-06   417599.7 3747293.1    58.0    3.49    4.00
3.25     YES
L0001619          0   0.17850E-06   417600.1 3747284.5    58.0    3.49    4.00
3.25     YES
L0001620          0   0.17850E-06   417600.5 3747275.9    58.0    3.49    4.00
3.25     YES
L0001621          0   0.17850E-06   417600.9 3747267.3    58.0    3.49    4.00
3.25     YES
L0001622          0   0.17850E-06   417601.3 3747258.7    57.9    3.49    4.00
3.25     YES
L0001623          0   0.17850E-06   417601.7 3747250.2    57.8    3.49    4.00
3.25     YES
L0001624          0   0.17850E-06   417602.1 3747241.6    57.7    3.49    4.00
3.25     YES
L0001625          0   0.17850E-06   417602.5 3747233.0    57.6    3.49    4.00
3.25     YES
L0001626          0   0.17850E-06   417602.9 3747224.4    57.5    3.49    4.00
3.25     YES
L0001627          0   0.17850E-06   417602.9 3747215.8    57.4    3.49    4.00
3.25     YES
L0001628          0   0.17850E-06   417602.7 3747207.2    57.3    3.49    4.00
3.25     YES
L0001629          0   0.17850E-06   417602.6 3747198.6    57.3    3.49    4.00
3.25     YES
L0001630          0   0.17850E-06   417602.5 3747190.1    57.2    3.49    4.00
3.25     YES
L0001631          0   0.17850E-06   417602.3 3747181.5    57.1    3.49    4.00
```

```
3.25     YES
 L0001632       0   0.17850E-06  417602.2 3747172.9   57.0    3.49     4.00
3.25     YES
 L0001633       0   0.17850E-06  417602.1 3747164.3   57.0    3.49     4.00
3.25     YES
 L0001634       0   0.17850E-06  417602.0 3747155.7   57.0    3.49     4.00
3.25     YES
 L0001635       0   0.17850E-06  417601.8 3747147.1   57.0    3.49     4.00
3.25     YES
 L0001636       0   0.17850E-06  417601.7 3747138.5   57.0    3.49     4.00
3.25     YES
 L0001637       0   0.17850E-06  417601.6 3747129.9   57.0    3.49     4.00
3.25     YES
 L0001638       0   0.17850E-06  417601.4 3747121.3   57.0    3.49     4.00
3.25     YES
 L0001639       0   0.17850E-06  417601.3 3747112.8   57.0    3.49     4.00
3.25     YES
 L0001640       0   0.17850E-06  417606.4 3747106.3   57.0    3.49     4.00
3.25     YES
 L0001641       0   0.17850E-06  417614.0 3747103.9   57.0    3.49     4.00
3.25     YES
 L0001642       0   0.17850E-06  417622.6 3747104.1   57.0    3.49     4.00
3.25     YES
 L0001643       0   0.17850E-06  417631.1 3747104.3   57.0    3.49     4.00
3.25     YES
 L0001644       0   0.17850E-06  417639.7 3747104.6   57.0    3.49     4.00
3.25     YES
 L0001645       0   0.17850E-06  417648.3 3747104.8   57.0    3.49     4.00
3.25     YES
 L0001646       0   0.17850E-06  417656.9 3747105.0   57.0    3.49     4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                              PAGE 12

 *** 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

 -
- -

L0001647	0	0.17850E-06	417665.5	3747105.2	57.0	3.49	4.00
3.25	YES						
L0001648	0	0.17850E-06	417674.1	3747105.4	57.0	3.49	4.00
3.25	YES						
L0001649	0	0.17850E-06	417682.7	3747105.7	57.0	3.49	4.00
3.25	YES						
L0001650	0	0.17850E-06	417691.3	3747105.9	57.0	3.49	4.00
3.25	YES						
L0001651	0	0.17850E-06	417699.8	3747106.1	57.0	3.49	4.00
3.25	YES						
L0001652	0	0.45990E-06	416919.7	3747342.6	54.8	3.49	10.23
3.25	YES						
L0001653	0	0.45990E-06	416919.7	3747320.6	54.6	3.49	10.23
3.25	YES						
L0001654	0	0.45990E-06	416919.8	3747298.6	54.4	3.49	10.23
3.25	YES						
L0001655	0	0.45990E-06	416919.8	3747276.6	54.2	3.49	10.23
3.25	YES						
L0001656	0	0.45990E-06	416919.9	3747254.6	54.1	3.49	10.23
3.25	YES						
L0001657	0	0.45990E-06	416919.9	3747232.6	54.1	3.49	10.23
3.25	YES						
L0001658	0	0.45990E-06	416920.0	3747210.6	54.1	3.49	10.23
3.25	YES						
L0001659	0	0.45990E-06	416920.0	3747188.6	54.0	3.49	10.23
3.25	YES						
L0001660	0	0.45990E-06	416920.1	3747166.6	53.9	3.49	10.23
3.25	YES						
L0001661	0	0.45990E-06	416920.1	3747144.6	53.7	3.49	10.23
3.25	YES						
L0001662	0	0.45990E-06	416920.2	3747122.6	53.5	3.49	10.23
3.25	YES						
L0001663	0	0.45990E-06	416920.2	3747100.6	53.3	3.49	10.23
3.25	YES						
L0001664	0	0.45990E-06	416920.3	3747078.6	53.2	3.49	10.23
3.25	YES						
L0001665	0	0.45990E-06	416920.3	3747056.6	53.1	3.49	10.23
3.25	YES						
L0001666	0	0.45990E-06	416920.4	3747034.6	53.1	3.49	10.23
3.25	YES						
L0001667	0	0.45990E-06	416920.4	3747012.6	53.0	3.49	10.23
3.25	YES						
L0001668	0	0.45990E-06	416920.5	3746990.6	53.0	3.49	10.23
3.25	YES						
L0001669	0	0.53260E-06	416938.5	3747350.1	54.9	3.49	4.00
3.25	YES						
L0001670	0	0.53260E-06	416947.1	3747350.1	54.9	3.49	4.00
3.25	YES						
L0001671	0	0.53260E-06	416955.7	3747350.0	54.9	3.49	4.00

```
3.25     YES
 L0001672       0   0.53260E-06  416964.3 3747350.0   55.0    3.49    4.00
3.25     YES
 L0001673       0   0.53260E-06  416972.9 3747349.9   55.0    3.49    4.00
3.25     YES
 L0001674       0   0.53260E-06  416981.5 3747349.9   55.0    3.49    4.00
3.25     YES
 L0001675       0   0.53260E-06  416990.1 3747349.8   55.1    3.49    4.00
3.25     YES
 L0001676       0   0.53260E-06  416998.7 3747349.8   55.2    3.49    4.00
3.25     YES
 L0001677       0   0.53260E-06  417007.3 3747349.7   55.2    3.49    4.00
3.25     YES
 L0001678       0   0.53260E-06  417015.9 3747349.7   55.3    3.49    4.00
3.25     YES
 L0001679       0   0.53260E-06  417024.4 3747349.6   55.4    3.49    4.00
3.25     YES
 L0001680       0   0.53260E-06  417033.0 3747349.6   55.5    3.49    4.00
3.25     YES
 L0001681       0   0.53260E-06  417041.6 3747349.5   55.6    3.49    4.00
3.25     YES
 L0001682       0   0.53260E-06  417050.2 3747349.5   55.7    3.49    4.00
3.25     YES
 L0001683       0   0.53260E-06  417058.8 3747349.4   55.8    3.49    4.00
3.25     YES
 L0001684       0   0.53260E-06  417067.4 3747349.4   55.8    3.49    4.00
3.25     YES
 L0001685       0   0.53260E-06  417076.0 3747349.3   55.9    3.49    4.00
3.25     YES
 L0001686       0   0.53260E-06  417084.6 3747349.3   55.9    3.49    4.00
3.25     YES
```

⬧ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                              PAGE 13
 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

*** VOLUME SOURCE DATA ***

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

```
L0001687        0   0.53260E-06  417093.2 3747349.2   55.9    3.49    4.00
3.25      YES
L0001688        0   0.53260E-06  417101.8 3747349.2   55.9    3.49    4.00
3.25      YES
L0001689        0   0.53260E-06  417110.3 3747349.1   55.9    3.49    4.00
3.25      YES
L0001690        0   0.53260E-06  417118.9 3747349.1   56.0    3.49    4.00
3.25      YES
L0001691        0   0.53260E-06  417127.5 3747349.0   56.0    3.49    4.00
3.25      YES
L0001692        0   0.53260E-06  417136.1 3747349.0   56.0    3.49    4.00
3.25      YES
L0001693        0   0.53260E-06  417144.7 3747349.0   56.0    3.49    4.00
3.25      YES
L0001694        0   0.53260E-06  417153.3 3747348.9   56.0    3.49    4.00
3.25      YES
L0001695        0   0.53260E-06  417161.9 3747348.9   56.0    3.49    4.00
3.25      YES
L0001696        0   0.53260E-06  417170.5 3747348.8   56.0    3.49    4.00
3.25      YES
L0001697        0   0.53260E-06  417179.1 3747348.8   56.0    3.49    4.00
3.25      YES
L0001698        0   0.53260E-06  417187.7 3747348.7   56.0    3.49    4.00
3.25      YES
L0001699        0   0.53260E-06  417196.2 3747348.7   56.0    3.49    4.00
3.25      YES
L0001700        0   0.53260E-06  417204.8 3747348.6   56.0    3.49    4.00
3.25      YES
L0001701        0   0.53260E-06  417213.4 3747348.6   56.0    3.49    4.00
3.25      YES
L0001702        0   0.53260E-06  417222.0 3747348.5   56.0    3.49    4.00
3.25      YES
L0001703        0   0.53260E-06  417230.6 3747348.5   56.0    3.49    4.00
3.25      YES
L0001704        0   0.53260E-06  417239.2 3747348.4   56.0    3.49    4.00
3.25      YES
L0001705        0   0.53260E-06  417247.8 3747348.4   56.0    3.49    4.00
3.25      YES
L0001706        0   0.53260E-06  417256.4 3747348.3   56.0    3.49    4.00
3.25      YES
L0001707        0   0.53260E-06  417265.0 3747348.3   56.0    3.49    4.00
3.25      YES
L0001708        0   0.53260E-06  417273.6 3747348.2   56.0    3.49    4.00
3.25      YES
L0001709        0   0.53260E-06  417282.1 3747348.2   56.0    3.49    4.00
3.25      YES
L0001710        0   0.53260E-06  417290.7 3747348.1   56.0    3.49    4.00
3.25      YES
L0001711        0   0.53260E-06  417299.3 3747348.1   56.1    3.49    4.00
```

```
 3.25     YES
  L0001712        0   0.53260E-06  417307.9 3747348.0    56.2     3.49     4.00
 3.25     YES
  L0001713        0   0.53260E-06  417316.5 3747348.0    56.3     3.49     4.00
 3.25     YES
  L0001714        0   0.53260E-06  417325.1 3747348.0    56.4     3.49     4.00
 3.25     YES
  L0001715        0   0.53260E-06  417333.7 3747347.9    56.5     3.49     4.00
 3.25     YES
  L0001716        0   0.53260E-06  417342.3 3747347.9    56.5     3.49     4.00
 3.25     YES
  L0001717        0   0.53260E-06  417350.9 3747347.8    56.6     3.49     4.00
 3.25     YES
  L0001718        0   0.53260E-06  417359.5 3747347.8    56.7     3.49     4.00
 3.25     YES
  L0001719        0   0.53260E-06  417368.0 3747347.7    56.8     3.49     4.00
 3.25     YES
  L0001720        0   0.53260E-06  417376.6 3747347.7    56.9     3.49     4.00
 3.25     YES
  L0001721        0   0.53260E-06  417385.2 3747347.6    57.0     3.49     4.00
 3.25     YES
  L0001722        0   0.53260E-06  417393.8 3747347.6    57.2     3.49     4.00
 3.25     YES
  L0001723        0   0.53260E-06  417402.4 3747347.5    57.3     3.49     4.00
 3.25     YES
  L0001724        0   0.53260E-06  417411.0 3747347.5    57.4     3.49     4.00
 3.25     YES
  L0001725        0   0.53260E-06  417419.6 3747347.4    57.5     3.49     4.00
 3.25     YES
  L0001726        0   0.53260E-06  417428.2 3747347.4    57.6     3.49     4.00
 3.25     YES
```

↑ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157 OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                               PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

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

L0001727	0	0.53260E-06	417436.8	3747347.3	57.7	3.49	4.00
3.25	YES
L0001728	0	0.53260E-06	417445.4	3747347.3	57.8	3.49	4.00
3.25	YES
L0001729	0	0.53260E-06	417453.9	3747347.2	57.9	3.49	4.00
3.25	YES
L0001730	0	0.53260E-06	417462.5	3747347.2	57.9	3.49	4.00
3.25	YES
L0001731	0	0.53260E-06	417471.1	3747347.1	57.9	3.49	4.00
3.25	YES
L0001732	0	0.53260E-06	417479.7	3747347.1	57.9	3.49	4.00
3.25	YES
L0001733	0	0.53260E-06	417488.3	3747347.0	57.9	3.49	4.00
3.25	YES
L0001734	0	0.53260E-06	417496.9	3747347.0	57.9	3.49	4.00
3.25	YES
L0001735	0	0.53260E-06	417505.5	3747346.9	58.0	3.49	4.00
3.25	YES
L0001736	0	0.53260E-06	417514.1	3747346.9	58.0	3.49	4.00
3.25	YES
L0001737	0	0.53260E-06	417522.7	3747346.9	58.0	3.49	4.00
3.25	YES
L0001738	0	0.53260E-06	417531.2	3747346.8	58.0	3.49	4.00
3.25	YES
L0001739	0	0.53260E-06	417539.8	3747346.8	58.0	3.49	4.00
3.25	YES
L0001740	0	0.53260E-06	417548.4	3747346.7	58.0	3.49	4.00
3.25	YES
L0001741	0	0.53260E-06	417557.0	3747346.7	58.0	3.49	4.00
3.25	YES
L0001742	0	0.53260E-06	417565.6	3747346.6	58.0	3.49	4.00
3.25	YES
L0001743	0	0.53260E-06	417574.2	3747346.6	58.0	3.49	4.00
3.25	YES
L0001744	0	0.53260E-06	417582.8	3747346.5	58.0	3.49	4.00
3.25	YES
L0001745	0	0.53260E-06	417591.4	3747346.5	58.0	3.49	4.00
3.25	YES
L0001746	0	0.53260E-06	417600.0	3747346.4	58.0	3.49	4.00
3.25	YES
L0001747	0	0.53260E-06	417608.6	3747346.4	58.0	3.49	4.00
3.25	YES
L0001748	0	0.53260E-06	417617.1	3747346.3	58.0	3.49	4.00
3.25	YES
L0001749	0	0.53260E-06	417625.7	3747346.3	58.0	3.49	4.00
3.25	YES
L0001750	0	0.53260E-06	417634.3	3747346.2	58.0	3.49	4.00
3.25	YES
L0001751	0	0.53260E-06	417642.9	3747346.2	58.0	3.49	4.00

```
3.25    YES
 L0001752          0   0.53260E-06  417651.5 3747346.1    58.0      3.49      4.00
3.25    YES
 L0001753          0   0.53260E-06  417660.1 3747346.1    58.0      3.49      4.00
3.25    YES
 L0001754          0   0.53260E-06  417668.7 3747346.0    58.0      3.49      4.00
3.25    YES
 L0001755          0   0.53260E-06  417677.3 3747346.0    58.0      3.49      4.00
3.25    YES
 L0001756          0   0.53260E-06  417685.9 3747345.9    58.0      3.49      4.00
3.25    YES
 L0001757          0   0.53260E-06  417694.5 3747345.9    58.0      3.49      4.00
3.25    YES
 L0001758          0   0.53260E-06  417703.0 3747345.8    58.0      3.49      4.00
3.25    YES
 L0001759          0   0.13630E-05  416950.4 3746957.7    53.0      3.49     10.23
3.25    YES
 L0001760          0   0.13630E-05  416972.4 3746957.4    53.0      3.49     10.23
3.25    YES
 L0001761          0   0.13630E-05  416994.4 3746957.1    53.1      3.49     10.23
3.25    YES
 L0001762          0   0.13630E-05  417016.4 3746956.9    53.3      3.49     10.23
3.25    YES
 L0001763          0   0.13630E-05  417038.4 3746956.6    53.4      3.49     10.23
3.25    YES
 L0001764          0   0.13630E-05  417060.4 3746956.3    53.6      3.49     10.23
3.25    YES
 L0001765          0   0.13630E-05  417082.4 3746956.1    53.7      3.49     10.23
3.25    YES
 L0001766          0   0.13630E-05  417104.4 3746955.8    53.8      3.49     10.23
3.25    YES
```

⬧ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                            ***   11:41:47

                               PAGE 15

 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN   ADJ_U*

                                                       *** VOLUME SOURCE DATA ***

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

```
L0001767          0    0.13630E-05   417126.4 3746955.5     54.0     3.49     10.23
3.25     YES
L0001768          0    0.13630E-05   417148.4 3746955.2     54.1     3.49     10.23
3.25     YES
L0001769          0    0.13630E-05   417170.4 3746955.0     54.3     3.49     10.23
3.25     YES
L0001770          0    0.13630E-05   417192.4 3746954.7     54.4     3.49     10.23
3.25     YES
L0001771          0    0.13630E-05   417214.4 3746954.4     54.6     3.49     10.23
3.25     YES
L0001772          0    0.13630E-05   417236.4 3746954.2     54.6     3.49     10.23
3.25     YES
L0001773          0    0.13630E-05   417258.4 3746953.9     54.6     3.49     10.23
3.25     YES
L0001774          0    0.13630E-05   417280.4 3746953.6     54.6     3.49     10.23
3.25     YES
L0001775          0    0.13630E-05   417302.4 3746953.4     54.6     3.49     10.23
3.25     YES
L0001776          0    0.13630E-05   417324.4 3746953.1     54.8     3.49     10.23
3.25     YES
L0001777          0    0.13630E-05   417346.4 3746952.8     54.9     3.49     10.23
3.25     YES
L0001778          0    0.13630E-05   417368.4 3746952.5     55.0     3.49     10.23
3.25     YES
L0001779          0    0.13630E-05   417390.4 3746952.3     55.2     3.49     10.23
3.25     YES
L0001780          0    0.13630E-05   417412.4 3746952.0     55.3     3.49     10.23
3.25     YES
L0001781          0    0.13630E-05   417434.4 3746951.7     55.5     3.49     10.23
3.25     YES
L0001782          0    0.13630E-05   417456.4 3746951.5     55.6     3.49     10.23
3.25     YES
L0001783          0    0.13630E-05   417478.4 3746951.2     55.8     3.49     10.23
3.25     YES
L0001784          0    0.13630E-05   417500.4 3746950.9     55.9     3.49     10.23
3.25     YES
L0001785          0    0.13630E-05   417522.4 3746950.6     56.0     3.49     10.23
3.25     YES
L0001786          0    0.13630E-05   417544.4 3746950.4     56.0     3.49     10.23
3.25     YES
L0001787          0    0.13630E-05   417566.4 3746950.1     56.0     3.49     10.23
3.25     YES
L0001788          0    0.13630E-05   417588.4 3746949.8     56.0     3.49     10.23
3.25     YES
L0001789          0    0.13630E-05   417610.4 3746949.6     56.0     3.49     10.23
3.25     YES
L0001790          0    0.13630E-05   417632.4 3746949.3     56.0     3.49     10.23
3.25     YES
L0001791          0    0.13630E-05   417654.4 3746949.0     56.0     3.49     10.23
```

```
3.25    YES
 L0001792      0   0.13630E-05  417676.3 3746948.8    56.0     3.49    10.23
3.25    YES
 L0001793      0   0.13630E-05  417698.3 3746948.5    56.0     3.49    10.23
3.25    YES
 L0001794      0   0.13860E-05  417724.2 3747338.3    58.0     3.49    10.23
3.25    YES
 L0001795      0   0.13860E-05  417724.4 3747316.3    58.0     3.49    10.23
3.25    YES
 L0001796      0   0.13860E-05  417724.7 3747294.3    58.0     3.49    10.23
3.25    YES
 L0001797      0   0.13860E-05  417724.9 3747272.3    58.0     3.49    10.23
3.25    YES
 L0001798      0   0.13860E-05  417725.1 3747250.3    57.8     3.49    10.23
3.25    YES
 L0001799      0   0.13860E-05  417725.4 3747228.3    57.6     3.49    10.23
3.25    YES
 L0001800      0   0.13860E-05  417725.6 3747206.3    57.3     3.49    10.23
3.25    YES
 L0001801      0   0.13860E-05  417725.9 3747184.3    57.1     3.49    10.23
3.25    YES
 L0001802      0   0.13860E-05  417726.1 3747162.3    57.0     3.49    10.23
3.25    YES
 L0001803      0   0.13860E-05  417726.4 3747140.3    57.0     3.49    10.23
3.25    YES
 L0001804      0   0.13860E-05  417726.6 3747118.3    57.0     3.49    10.23
3.25    YES
 L0001805      0   0.13860E-05  417726.9 3747096.3    57.0     3.49    10.23
3.25    YES
 L0001806      0   0.13860E-05  417727.1 3747074.3    56.9     3.49    10.23
3.25    YES
```

⬧ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                                PAGE 16
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                             *** VOLUME SOURCE DATA ***

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

```
L0001807        0   0.13860E-05  417727.4 3747052.3    56.7    3.49    10.23
3.25    YES
L0001808        0   0.13860E-05  417727.6 3747030.3    56.4    3.49    10.23
3.25    YES
L0001809        0   0.13860E-05  417727.9 3747008.3    56.2    3.49    10.23
3.25    YES
L0001810        0   0.13860E-05  417728.1 3746986.3    56.0    3.49    10.23
3.25    YES
L0001811        0   0.24970E-05  417727.5 3746954.5    56.0    3.49    10.23
3.25    YES
L0001812        0   0.24970E-05  417727.6 3746932.5    56.0    3.49    10.23
3.25    YES
L0001813        0   0.24970E-05  417727.7 3746910.5    56.0    3.49    10.23
3.25    YES
L0001814        0   0.24970E-05  417727.8 3746888.5    56.0    3.49    10.23
3.25    YES
L0001815        0   0.24970E-05  417727.9 3746866.5    56.0    3.49    10.23
3.25    YES
L0001816        0   0.24970E-05  417728.0 3746844.5    56.0    3.49    10.23
3.25    YES
L0001817        0   0.24970E-05  417728.1 3746822.5    56.0    3.49    10.23
3.25    YES
L0001818        0   0.24970E-05  417728.2 3746800.5    56.0    3.49    10.23
3.25    YES
L0001819        0   0.24970E-05  417728.3 3746778.5    55.7    3.49    10.23
3.25    YES
L0001820        0   0.24970E-05  417728.4 3746756.5    55.5    3.49    10.23
3.25    YES
L0001821        0   0.24970E-05  417728.5 3746734.5    55.2    3.49    10.23
3.25    YES
L0001822        0   0.24970E-05  417728.6 3746712.5    55.0    3.49    10.23
3.25    YES
L0001823        0   0.24970E-05  417728.7 3746690.5    55.0    3.49    10.23
3.25    YES
L0001824        0   0.24970E-05  417728.8 3746668.5    55.0    3.49    10.23
3.25    YES
L0001825        0   0.24970E-05  417728.8 3746646.5    55.0    3.49    10.23
3.25    YES
L0001826        0   0.24970E-05  417728.9 3746624.5    55.0    3.49    10.23
3.25    YES
L0001827        0   0.24970E-05  417729.0 3746602.5    55.0    3.49    10.23
3.25    YES
L0001828        0   0.24970E-05  417729.1 3746580.5    55.0    3.49    10.23
3.25    YES
L0001829        0   0.24970E-05  417729.2 3746558.5    55.0    3.49    10.23
3.25    YES
L0001830        0   0.24970E-05  417729.3 3746536.5    55.0    3.49    10.23
3.25    YES
L0001831        0   0.24970E-05  417729.4 3746514.5    54.9    3.49    10.23
```

```
3.25     YES
 L0001832        0  0.24970E-05  417729.5 3746492.5    54.6    3.49    10.23
3.25     YES
 L0001833        0  0.24970E-05  417729.6 3746470.5    54.4    3.49    10.23
3.25     YES
 L0001834        0  0.24970E-05  417729.7 3746448.5    54.1    3.49    10.23
3.25     YES
 L0001835        0  0.24970E-05  417729.8 3746426.5    54.0    3.49    10.23
3.25     YES
 L0001836        0  0.24970E-05  417729.9 3746404.5    54.0    3.49    10.23
3.25     YES
 L0001837        0  0.24970E-05  417730.0 3746382.5    54.0    3.49    10.23
3.25     YES
 L0001838        0  0.13670E-05  417758.2 3746952.6    56.0    3.49    10.23
3.25     YES
 L0001839        0  0.13670E-05  417780.2 3746952.4    56.2    3.49    10.23
3.25     YES
 L0001840        0  0.13670E-05  417802.2 3746952.3    56.4    3.49    10.23
3.25     YES
 L0001841        0  0.13670E-05  417824.2 3746952.2    56.6    3.49    10.23
3.25     YES
 L0001842        0  0.13670E-05  417846.2 3746952.0    56.7    3.49    10.23
3.25     YES
 L0001843        0  0.13670E-05  417868.2 3746951.9    56.8    3.49    10.23
3.25     YES
 L0001844        0  0.13670E-05  417890.2 3746951.7    56.9    3.49    10.23
3.25     YES
 L0001845        0  0.13670E-05  417912.2 3746951.6    57.0    3.49    10.23
3.25     YES
 L0001846        0  0.13670E-05  417934.2 3746951.5    57.0    3.49    10.23
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157 OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                           ***   11:41:47

                              PAGE 17
 *** 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

```
L0001847      0   0.13670E-05   417956.2 3746951.3   57.0    3.49    10.23
3.25     YES
L0001848      0   0.13670E-05   417978.2 3746951.2   57.0    3.49    10.23
3.25     YES
L0001849      0   0.13670E-05   418000.2 3746951.0   57.0    3.49    10.23
3.25     YES
L0001850      0   0.13670E-05   418022.2 3746950.9   57.0    3.49    10.23
3.25     YES
L0001851      0   0.13670E-05   418044.2 3746950.8   57.0    3.49    10.23
3.25     YES
L0001852      0   0.13670E-05   418066.2 3746950.6   57.0    3.49    10.23
3.25     YES
L0001853      0   0.13670E-05   418088.2 3746950.5   57.0    3.49    10.23
3.25     YES
L0001854      0   0.13670E-05   418110.2 3746950.3   57.0    3.49    10.23
3.25     YES
L0001855      0   0.13670E-05   418132.2 3746950.2   57.0    3.49    10.23
3.25     YES
L0001856      0   0.13670E-05   418154.2 3746950.1   57.1    3.49    10.23
3.25     YES
L0001857      0   0.13670E-05   418176.2 3746949.9   57.3    3.49    10.23
3.25     YES
L0001858      0   0.13670E-05   418198.2 3746949.8   57.5    3.49    10.23
3.25     YES
L0001859      0   0.13670E-05   418220.2 3746949.6   57.6    3.49    10.23
3.25     YES
L0001860      0   0.13670E-05   418242.2 3746949.5   57.8    3.49    10.23
3.25     YES
L0001861      0   0.13670E-05   418264.2 3746949.4   57.9    3.49    10.23
3.25     YES
L0001862      0   0.13670E-05   418286.0 3746950.1   58.0    3.49    10.23
3.25     YES
L0001863      0   0.13670E-05   418306.7 3746957.6   58.2    3.49    10.23
3.25     YES
L0001864      0   0.13670E-05   418327.4 3746965.1   58.5    3.49    10.23
3.25     YES
L0001865      0   0.13670E-05   418348.2 3746972.3   58.7    3.49    10.23
3.25     YES
L0001866      0   0.13670E-05   418369.2 3746978.9   59.0    3.49    10.23
3.25     YES
L0001867      0   0.13670E-05   418390.2 3746985.5   59.0    3.49    10.23
3.25     YES
L0001868      0   0.13670E-05   418411.1 3746992.1   59.0    3.49    10.23
3.25     YES
L0001869      0   0.13670E-05   418432.1 3746998.7   59.0    3.49    10.23
3.25     YES
L0001870      0   0.13670E-05   418453.1 3747005.3   59.2    3.49    10.23
3.25     YES
L0001871      0   0.13670E-05   418474.1 3747011.9   59.7    3.49    10.23
```

```
3.25     YES
 L0001872        0  0.13670E-05  418495.1 3747018.5     60.3    3.49    10.23
3.25     YES
 L0001873        0  0.13670E-05  418516.1 3747025.0     60.8    3.49    10.23
3.25     YES
 L0001874        0  0.13670E-05  418537.1 3747031.6     61.0    3.49    10.23
3.25     YES
 L0001875        0  0.13670E-05  418558.1 3747038.2     61.0    3.49    10.23
3.25     YES
 L0001876        0  0.13670E-05  418579.1 3747044.7     61.0    3.49    10.23
3.25     YES
 L0001877        0  0.13670E-05  418600.2 3747051.1     61.0    3.49    10.23
3.25     YES
 L0001878        0  0.13670E-05  418621.2 3747057.4     61.0    3.49    10.23
3.25     YES
 L0001879        0  0.13670E-05  418642.3 3747063.8     61.0    3.49    10.23
3.25     YES
 L0001880        0  0.13670E-05  418663.3 3747070.2     61.0    3.49    10.23
3.25     YES
 L0001881        0  0.13670E-05  418684.4 3747076.6     61.0    3.49    10.23
3.25     YES
 L0001882        0  0.13670E-05  418705.4 3747083.0     61.1    3.49    10.23
3.25     YES
 L0001883        0  0.13670E-05  418726.5 3747089.4     61.2    3.49    10.23
3.25     YES
 L0001884        0  0.13670E-05  418747.5 3747095.8     61.2    3.49    10.23
3.25     YES
 L0001885        0  0.13670E-05  418768.6 3747102.1     61.3    3.49    10.23
3.25     YES
 L0001886        0  0.13670E-05  418789.6 3747108.5     61.4    3.49    10.23
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                                 PAGE 18
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                             *** VOLUME SOURCE DATA ***

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

```
L0001887        0   0.13670E-05  418810.7 3747114.9   61.5    3.49    10.23
3.25    YES
L0001888        0   0.17750E-06  416928.2 3746956.9   53.0    3.49     4.00
3.25    YES
L0001889        0   0.17750E-06  416919.7 3746956.9   53.0    3.49     4.00
3.25    YES
L0001890        0   0.17750E-06  416911.1 3746956.9   53.0    3.49     4.00
3.25    YES
L0001891        0   0.17750E-06  416902.5 3746956.8   53.0    3.49     4.00
3.25    YES
L0001892        0   0.17750E-06  416893.9 3746956.8   53.0    3.49     4.00
3.25    YES
L0001893        0   0.17750E-06  416885.3 3746956.8   53.0    3.49     4.00
3.25    YES
L0001894        0   0.17750E-06  416876.7 3746956.7   53.0    3.49     4.00
3.25    YES
L0001895        0   0.17750E-06  416868.1 3746956.7   53.0    3.49     4.00
3.25    YES
L0001896        0   0.17750E-06  416859.5 3746956.6   53.0    3.49     4.00
3.25    YES
L0001897        0   0.17750E-06  416850.9 3746956.6   53.0    3.49     4.00
3.25    YES
L0001898        0   0.17750E-06  416842.3 3746956.6   53.0    3.49     4.00
3.25    YES
L0001899        0   0.17750E-06  416833.8 3746956.5   53.0    3.49     4.00
3.25    YES
L0001900        0   0.17750E-06  416825.2 3746956.5   53.0    3.49     4.00
3.25    YES
L0001901        0   0.17750E-06  416816.6 3746956.5   53.0    3.49     4.00
3.25    YES
L0001902        0   0.17750E-06  416808.0 3746956.4   53.0    3.49     4.00
3.25    YES
L0001903        0   0.17750E-06  416799.4 3746956.4   53.0    3.49     4.00
3.25    YES
L0001904        0   0.17750E-06  416790.8 3746956.4   53.0    3.49     4.00
3.25    YES
L0001905        0   0.17750E-06  416782.2 3746956.3   53.0    3.49     4.00
3.25    YES
L0001906        0   0.17750E-06  416773.6 3746956.3   53.0    3.49     4.00
3.25    YES
L0001907        0   0.17750E-06  416765.0 3746956.2   53.0    3.49     4.00
3.25    YES
L0001908        0   0.17750E-06  416756.4 3746956.2   53.0    3.49     4.00
3.25    YES
L0001909        0   0.17750E-06  416747.9 3746956.2   53.0    3.49     4.00
3.25    YES
L0001910        0   0.17750E-06  416739.3 3746956.1   52.9    3.49     4.00
3.25    YES
L0001911        0   0.17750E-06  416730.7 3746956.1   52.9    3.49     4.00
```

```
3.25     YES
 L0001912        0  0.17750E-06  416722.1 3746956.1   52.8    3.49    4.00
3.25     YES
 L0001913        0  0.17750E-06  416713.5 3746956.0   52.8    3.49    4.00
3.25     YES
 L0001914        0  0.17750E-06  416704.9 3746956.0   52.7    3.49    4.00
3.25     YES
 L0001915        0  0.17750E-06  416696.3 3746956.0   52.7    3.49    4.00
3.25     YES
 L0001916        0  0.17750E-06  416687.7 3746955.9   52.6    3.49    4.00
3.25     YES
 L0001917        0  0.17750E-06  416679.1 3746955.9   52.6    3.49    4.00
3.25     YES
 L0001918        0  0.17750E-06  416670.5 3746955.8   52.5    3.49    4.00
3.25     YES
 L0001919        0  0.17750E-06  416662.0 3746955.8   52.5    3.49    4.00
3.25     YES
 L0001920        0  0.17750E-06  416653.4 3746955.8   52.4    3.49    4.00
3.25     YES
 L0001921        0  0.17750E-06  416644.8 3746955.7   52.3    3.49    4.00
3.25     YES
 L0001922        0  0.17750E-06  416636.2 3746955.7   52.3    3.49    4.00
3.25     YES
 L0001923        0  0.17750E-06  416627.6 3746955.7   52.2    3.49    4.00
3.25     YES
 L0001924        0  0.17750E-06  416619.0 3746955.6   52.2    3.49    4.00
3.25     YES
 L0001925        0  0.17750E-06  416610.4 3746955.6   52.1    3.49    4.00
3.25     YES
 L0001926        0  0.17750E-06  416601.8 3746955.6   52.0    3.49    4.00
3.25     YES
```

↟ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

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

                                         *** VOLUME SOURCE DATA ***

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

```
L0001927        0   0.17750E-06   416593.2 3746955.5   52.0   3.49   4.00
3.25     YES
L0001928        0   0.17750E-06   416584.6 3746955.5   51.9   3.49   4.00
3.25     YES
L0001929        0   0.17750E-06   416576.1 3746955.5   51.9   3.49   4.00
3.25     YES
L0001930        0   0.17750E-06   416567.5 3746955.4   51.8   3.49   4.00
3.25     YES
L0001931        0   0.17750E-06   416558.9 3746955.4   51.8   3.49   4.00
3.25     YES
L0001932        0   0.17750E-06   416550.3 3746955.3   51.7   3.49   4.00
3.25     YES
L0001933        0   0.17750E-06   416541.7 3746955.3   51.7   3.49   4.00
3.25     YES
L0001934        0   0.17750E-06   416533.1 3746955.3   51.6   3.49   4.00
3.25     YES
L0001935        0   0.17750E-06   416524.5 3746955.2   51.6   3.49   4.00
3.25     YES
L0001936        0   0.17750E-06   416515.9 3746955.2   51.5   3.49   4.00
3.25     YES
L0001937        0   0.17750E-06   416507.3 3746955.2   51.5   3.49   4.00
3.25     YES
L0001938        0   0.17750E-06   416498.7 3746955.1   51.5   3.49   4.00
3.25     YES
L0001939        0   0.17750E-06   416490.2 3746955.1   51.5   3.49   4.00
3.25     YES
L0001940        0   0.17750E-06   416481.6 3746955.1   51.5   3.49   4.00
3.25     YES
L0001941        0   0.17750E-06   416473.0 3746955.0   51.5   3.49   4.00
3.25     YES
L0001942        0   0.17750E-06   416464.4 3746955.0   51.5   3.49   4.00
3.25     YES
L0001943        0   0.17750E-06   416455.8 3746954.9   51.5   3.49   4.00
3.25     YES
L0001944        0   0.17750E-06   416447.2 3746954.9   51.5   3.49   4.00
3.25     YES
L0001945        0   0.17750E-06   416438.6 3746954.9   51.5   3.49   4.00
3.25     YES
L0001946        0   0.17750E-06   416430.0 3746954.8   51.4   3.49   4.00
3.25     YES
L0001947        0   0.17750E-06   416421.4 3746954.8   51.4   3.49   4.00
3.25     YES
L0001948        0   0.17750E-06   416412.8 3746954.8   51.3   3.49   4.00
3.25     YES
L0001949        0   0.17750E-06   416404.3 3746954.7   51.3   3.49   4.00
3.25     YES
L0001950        0   0.17750E-06   416395.7 3746954.7   51.2   3.49   4.00
3.25     YES
L0001951        0   0.17750E-06   416387.1 3746954.7   51.1   3.49   4.00
```

```
3.25    YES
 L0001952       0   0.17750E-06  416378.5 3746954.6    51.1    3.49    4.00
3.25    YES
 L0001953       0   0.17750E-06  416369.9 3746954.6    51.0    3.49    4.00
3.25    YES
 L0001954       0   0.17750E-06  416361.3 3746954.5    51.0    3.49    4.00
3.25    YES
 L0001955       0   0.17750E-06  416352.7 3746954.5    50.9    3.49    4.00
3.25    YES
 L0001956       0   0.17750E-06  416344.1 3746954.5    50.9    3.49    4.00
3.25    YES
 L0001957       0   0.17750E-06  416335.5 3746954.4    50.8    3.49    4.00
3.25    YES
 L0001958       0   0.17750E-06  416326.9 3746954.4    50.8    3.49    4.00
3.25    YES
 L0001959       0   0.17750E-06  416318.4 3746954.4    50.7    3.49    4.00
3.25    YES
 L0001960       0   0.17750E-06  416309.8 3746954.3    50.6    3.49    4.00
3.25    YES
 L0001961       0   0.17750E-06  416301.2 3746954.3    50.6    3.49    4.00
3.25    YES
 L0001962       0   0.17750E-06  416292.6 3746954.3    50.5    3.49    4.00
3.25    YES
 L0001963       0   0.17750E-06  416284.0 3746954.2    50.5    3.49    4.00
3.25    YES
 L0001964       0   0.17750E-06  416275.4 3746954.2    50.4    3.49    4.00
3.25    YES
 L0001965       0   0.17750E-06  416266.8 3746954.1    50.4    3.49    4.00
3.25    YES
 L0001966       0   0.17750E-06  416258.2 3746954.1    50.3    3.49    4.00
3.25    YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   11:41:47

                                   PAGE 20

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                              *** VOLUME SOURCE DATA ***

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

```
L0001967        0   0.17750E-06  416249.6 3746954.1   50.2    3.49    4.00
3.25    YES
L0001968        0   0.17750E-06  416241.0 3746954.0   50.2    3.49    4.00
3.25    YES
L0001969        0   0.17750E-06  416232.5 3746954.0   50.1    3.49    4.00
3.25    YES
L0001970        0   0.17750E-06  416223.9 3746954.0   50.1    3.49    4.00
3.25    YES
L0001971        0   0.17750E-06  416215.3 3746953.9   50.0    3.49    4.00
3.25    YES
L0001972        0   0.17750E-06  416206.7 3746953.9   50.0    3.49    4.00
3.25    YES
L0001973        0   0.17750E-06  416198.1 3746953.9   50.0    3.49    4.00
3.25    YES
L0001974        0   0.17750E-06  416189.5 3746953.8   50.0    3.49    4.00
3.25    YES
L0001975        0   0.17750E-06  416180.9 3746953.8   50.0    3.49    4.00
3.25    YES
L0001976        0   0.17750E-06  416172.3 3746953.8   50.0    3.49    4.00
3.25    YES
L0001977        0   0.17750E-06  416163.7 3746953.7   50.0    3.49    4.00
3.25    YES
L0001978        0   0.17750E-06  416155.1 3746953.7   50.0    3.49    4.00
3.25    YES
L0001979        0   0.17750E-06  416146.6 3746953.6   50.0    3.49    4.00
3.25    YES
L0001980        0   0.17750E-06  416138.0 3746953.6   50.0    3.49    4.00
3.25    YES
L0001981        0   0.17750E-06  416129.4 3746953.6   50.0    3.49    4.00
3.25    YES
L0001982        0   0.17750E-06  416120.8 3746953.5   49.9    3.49    4.00
3.25    YES
L0001983        0   0.88850E-07  416122.1 3746943.2   49.9    3.49    4.00
3.25    YES
L0001984        0   0.88850E-07  416122.1 3746934.6   49.9    3.49    4.00
3.25    YES
L0001985        0   0.88850E-07  416122.1 3746926.0   49.9    3.49    4.00
3.25    YES
L0001986        0   0.88850E-07  416122.0 3746917.4   49.9    3.49    4.00
3.25    YES
L0001987        0   0.88850E-07  416122.0 3746908.9   49.8    3.49    4.00
3.25    YES
L0001988        0   0.88850E-07  416121.9 3746900.3   49.8    3.49    4.00
3.25    YES
L0001989        0   0.88850E-07  416121.9 3746891.7   49.7    3.49    4.00
3.25    YES
L0001990        0   0.88850E-07  416121.9 3746883.1   49.6    3.49    4.00
3.25    YES
L0001991        0   0.88850E-07  416121.8 3746874.5   49.5    3.49    4.00
```

```
3.25     YES
 L0001992      0   0.88850E-07  416121.8 3746865.9    49.4     3.49     4.00
3.25     YES
 L0001993      0   0.88850E-07  416121.7 3746857.3    49.4     3.49     4.00
3.25     YES
 L0001994      0   0.88850E-07  416121.7 3746848.7    49.3     3.49     4.00
3.25     YES
 L0001995      0   0.88850E-07  416121.7 3746840.1    49.2     3.49     4.00
3.25     YES
 L0001996      0   0.88850E-07  416121.6 3746831.5    49.1     3.49     4.00
3.25     YES
 L0001997      0   0.88850E-07  416121.6 3746823.0    49.0     3.49     4.00
3.25     YES
 L0001998      0   0.88850E-07  416121.5 3746814.4    49.0     3.49     4.00
3.25     YES
 L0001999      0   0.88850E-07  416121.5 3746805.8    49.0     3.49     4.00
3.25     YES
 L0002000      0   0.88850E-07  416121.5 3746797.2    49.0     3.49     4.00
3.25     YES
 L0002001      0   0.88850E-07  416121.4 3746788.6    49.0     3.49     4.00
3.25     YES
 L0002002      0   0.88850E-07  416121.4 3746780.0    48.9     3.49     4.00
3.25     YES
 L0002003      0   0.88850E-07  416121.3 3746771.4    48.9     3.49     4.00
3.25     YES
 L0002004      0   0.88850E-07  416121.3 3746762.8    48.9     3.49     4.00
3.25     YES
 L0002005      0   0.88850E-07  416121.3 3746754.2    48.9     3.49     4.00
3.25     YES
 L0002006      0   0.88850E-07  416121.2 3746745.6    48.9     3.49     4.00
3.25     YES
```

⬧ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                            ***   11:41:47

                                 PAGE 21
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

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

```
L0002007        0   0.88850E-07   416121.2 3746737.1    48.9    3.49    4.00
3.25    YES
L0002008        0   0.88850E-07   416121.1 3746728.5    48.9    3.49    4.00
3.25    YES
L0002009        0   0.88850E-07   416121.1 3746719.9    48.8    3.49    4.00
3.25    YES
L0002010        0   0.88850E-07   416121.1 3746711.3    48.7    3.49    4.00
3.25    YES
L0002011        0   0.88850E-07   416121.0 3746702.7    48.7    3.49    4.00
3.25    YES
L0002012        0   0.88850E-07   416121.0 3746694.1    48.6    3.49    4.00
3.25    YES
L0002013        0   0.88850E-07   416120.9 3746685.5    48.5    3.49    4.00
3.25    YES
L0002014        0   0.88850E-07   416120.9 3746676.9    48.4    3.49    4.00
3.25    YES
L0002015        0   0.88850E-07   416120.9 3746668.3    48.3    3.49    4.00
3.25    YES
L0002016        0   0.88850E-07   416120.8 3746659.7    48.2    3.49    4.00
3.25    YES
L0002017        0   0.88850E-07   416120.8 3746651.2    48.2    3.49    4.00
3.25    YES
L0002018        0   0.88850E-07   416120.8 3746642.6    48.1    3.49    4.00
3.25    YES
L0002019        0   0.88850E-07   416120.7 3746634.0    48.0    3.49    4.00
3.25    YES
L0002020        0   0.88850E-07   416120.7 3746625.4    48.0    3.49    4.00
3.25    YES
L0002021        0   0.88850E-07   416120.6 3746616.8    48.0    3.49    4.00
3.25    YES
L0002022        0   0.88850E-07   416120.6 3746608.2    48.0    3.49    4.00
3.25    YES
L0002023        0   0.88850E-07   416120.6 3746599.6    48.0    3.49    4.00
3.25    YES
L0002024        0   0.88850E-07   416120.5 3746591.0    47.9    3.49    4.00
3.25    YES
L0002025        0   0.88850E-07   416120.5 3746582.4    47.9    3.49    4.00
3.25    YES
L0002026        0   0.88850E-07   416120.4 3746573.8    47.9    3.49    4.00
3.25    YES
L0002027        0   0.88850E-07   416120.4 3746565.3    47.9    3.49    4.00
3.25    YES
L0002028        0   0.88850E-07   416120.4 3746556.7    47.9    3.49    4.00
3.25    YES
L0002029        0   0.88850E-07   416120.3 3746548.1    47.9    3.49    4.00
3.25    YES
L0002030        0   0.88850E-07   416120.3 3746539.5    47.9    3.49    4.00
3.25    YES
L0002031        0   0.88850E-07   416120.2 3746530.9    47.8    3.49    4.00
```

```
3.25     YES
 L0002032       0   0.88850E-07  416120.2 3746522.3    47.7     3.49     4.00
3.25     YES
 L0002033       0   0.88850E-07  416120.2 3746513.7    47.6     3.49     4.00
3.25     YES
 L0002034       0   0.88850E-07  416120.1 3746505.1    47.5     3.49     4.00
3.25     YES
 L0002035       0   0.88850E-07  416120.1 3746496.5    47.5     3.49     4.00
3.25     YES
 L0002036       0   0.88850E-07  416120.0 3746488.0    47.4     3.49     4.00
3.25     YES
 L0002037       0   0.88850E-07  416120.0 3746479.4    47.3     3.49     4.00
3.25     YES
 L0002038       0   0.88850E-07  416120.0 3746470.8    47.2     3.49     4.00
3.25     YES
 L0002039       0   0.88850E-07  416119.9 3746462.2    47.1     3.49     4.00
3.25     YES
 L0002040       0   0.88850E-07  416119.9 3746453.6    47.0     3.49     4.00
3.25     YES
 L0002041       0   0.88850E-07  416119.8 3746445.0    47.0     3.49     4.00
3.25     YES
 L0002042       0   0.88850E-07  416119.8 3746436.4    47.0     3.49     4.00
3.25     YES
 L0002043       0   0.88850E-07  416119.8 3746427.8    47.0     3.49     4.00
3.25     YES
 L0002044       0   0.88850E-07  416119.7 3746419.2    47.0     3.49     4.00
3.25     YES
 L0002045       0   0.88850E-07  416119.7 3746410.6    47.0     3.49     4.00
3.25     YES
 L0002046       0   0.88850E-07  416119.6 3746402.1    47.0     3.49     4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                                PAGE 22

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                            *** VOLUME SOURCE DATA ***

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

```
L0002047           0   0.88850E-07  416119.6 3746393.5   47.0   3.49   4.00
3.25     YES
L0002048           0   0.88950E-07  416105.0 3746956.1   49.8   3.49   4.00
3.25     YES
L0002049           0   0.88950E-07  416096.4 3746956.1   49.8   3.49   4.00
3.25     YES
L0002050           0   0.88950E-07  416087.8 3746956.1   49.7   3.49   4.00
3.25     YES
L0002051           0   0.88950E-07  416079.2 3746956.1   49.6   3.49   4.00
3.25     YES
L0002052           0   0.88950E-07  416070.6 3746956.1   49.6   3.49   4.00
3.25     YES
L0002053           0   0.88950E-07  416062.0 3746956.1   49.5   3.49   4.00
3.25     YES
L0002054           0   0.88950E-07  416053.4 3746956.1   49.5   3.49   4.00
3.25     YES
L0002055           0   0.88950E-07  416044.9 3746956.1   49.4   3.49   4.00
3.25     YES
L0002056           0   0.88950E-07  416036.3 3746956.1   49.4   3.49   4.00
3.25     YES
L0002057           0   0.88950E-07  416027.7 3746956.1   49.3   3.49   4.00
3.25     YES
L0002058           0   0.88950E-07  416019.1 3746956.1   49.3   3.49   4.00
3.25     YES
L0002059           0   0.88950E-07  416010.5 3746956.1   49.2   3.49   4.00
3.25     YES
L0002060           0   0.88950E-07  416001.9 3746956.1   49.1   3.49   4.00
3.25     YES
L0002061           0   0.88950E-07  415993.3 3746956.1   49.1   3.49   4.00
3.25     YES
L0002062           0   0.88950E-07  415984.7 3746956.1   49.0   3.49   4.00
3.25     YES
L0002063           0   0.88950E-07  415976.1 3746956.1   49.0   3.49   4.00
3.25     YES
L0002064           0   0.88950E-07  415967.5 3746956.1   49.0   3.49   4.00
3.25     YES
L0002065           0   0.88950E-07  415959.0 3746956.1   49.0   3.49   4.00
3.25     YES
L0002066           0   0.88950E-07  415950.4 3746956.1   49.0   3.49   4.00
3.25     YES
L0002067           0   0.88950E-07  415941.8 3746956.1   49.0   3.49   4.00
3.25     YES
L0002068           0   0.88950E-07  415933.2 3746956.1   49.0   3.49   4.00
3.25     YES
L0002069           0   0.88950E-07  415924.6 3746956.1   49.0   3.49   4.00
3.25     YES
L0002070           0   0.88950E-07  415916.0 3746956.1   49.0   3.49   4.00
3.25     YES
L0002071           0   0.88950E-07  415907.4 3746956.1   49.0   3.49   4.00
```

```
3.25     YES
 L0002072        0   0.88950E-07  415898.8 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002073        0   0.88950E-07  415890.2 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002074        0   0.88950E-07  415881.6 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002075        0   0.88950E-07  415873.1 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002076        0   0.88950E-07  415864.5 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002077        0   0.88950E-07  415855.9 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002078        0   0.88950E-07  415847.3 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002079        0   0.88950E-07  415838.7 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002080        0   0.88950E-07  415830.1 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002081        0   0.88950E-07  415821.5 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002082        0   0.88950E-07  415812.9 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002083        0   0.88950E-07  415804.3 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002084        0   0.88950E-07  415795.7 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002085        0   0.88950E-07  415787.2 3746956.1    49.0     3.49     4.00
3.25     YES
 L0002086        0   0.88950E-07  415778.6 3746956.1    49.0     3.49     4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                              PAGE 23
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN   ADJ_U*

                                            *** VOLUME SOURCE DATA ***

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

```
L0002087       0   0.88950E-07  415770.0 3746956.1   49.0     3.49    4.00
3.25     YES
L0002088       0   0.88950E-07  415761.4 3746956.1   49.0     3.49    4.00
3.25     YES
L0002089       0   0.88950E-07  415752.8 3746956.1   49.0     3.49    4.00
3.25     YES
L0002090       0   0.88950E-07  415744.2 3746956.1   49.0     3.49    4.00
3.25     YES
L0002091       0   0.88950E-07  415735.6 3746956.1   49.0     3.49    4.00
3.25     YES
L0002092       0   0.88950E-07  415727.0 3746956.1   49.0     3.49    4.00
3.25     YES
L0002093       0   0.88950E-07  415718.4 3746956.1   49.0     3.49    4.00
3.25     YES
L0002094       0   0.88950E-07  415709.8 3746956.1   49.0     3.49    4.00
3.25     YES
L0002095       0   0.88950E-07  415701.3 3746956.1   49.0     3.49    4.00
3.25     YES
L0002096       0   0.88950E-07  415692.7 3746956.1   49.0     3.49    4.00
3.25     YES
L0002097       0   0.88950E-07  415684.1 3746956.1   49.0     3.49    4.00
3.25     YES
L0002098       0   0.88950E-07  415675.5 3746956.1   49.0     3.49    4.00
3.25     YES
L0002099       0   0.88950E-07  415666.9 3746956.1   49.0     3.49    4.00
3.25     YES
L0002100       0   0.88950E-07  415658.3 3746956.1   49.0     3.49    4.00
3.25     YES
L0002101       0   0.88950E-07  415649.7 3746956.1   49.0     3.49    4.00
3.25     YES
L0002102       0   0.88950E-07  415641.1 3746956.1   49.0     3.49    4.00
3.25     YES
L0002103       0   0.88950E-07  415632.5 3746956.1   49.0     3.49    4.00
3.25     YES
L0002104       0   0.88950E-07  415623.9 3746956.1   49.0     3.49    4.00
3.25     YES
L0002105       0   0.88950E-07  415615.4 3746956.1   49.0     3.49    4.00
3.25     YES
L0002106       0   0.88950E-07  415606.8 3746956.1   49.0     3.49    4.00
3.25     YES
L0002107       0   0.88950E-07  415598.2 3746956.1   49.0     3.49    4.00
3.25     YES
L0002108       0   0.88950E-07  415589.6 3746956.1   49.0     3.49    4.00
3.25     YES
L0002109       0   0.88950E-07  415581.0 3746956.1   49.0     3.49    4.00
3.25     YES
L0002110       0   0.88950E-07  415572.4 3746956.1   49.0     3.49    4.00
3.25     YES
L0002111       0   0.88950E-07  415563.8 3746956.1   49.0     3.49    4.00
```

```
3.25     YES
 L0002112       0   0.88950E-07  415555.2 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002113       0   0.88950E-07  415546.6 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002114       0   0.88950E-07  415538.0 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002115       0   0.88950E-07  415529.5 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002116       0   0.88950E-07  415520.9 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002117       0   0.88950E-07  415512.3 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002118       0   0.88950E-07  415503.7 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002119       0   0.88950E-07  415495.1 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002120       0   0.88950E-07  415486.5 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002121       0   0.88950E-07  415477.9 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002122       0   0.88950E-07  415469.3 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002123       0   0.88950E-07  415460.7 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002124       0   0.88950E-07  415452.1 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002125       0   0.88950E-07  415443.6 3746956.1    49.0     3.49    4.00
3.25     YES
 L0002126       0   0.88950E-07  415435.0 3746956.1    49.0     3.49    4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                         PAGE 24
 *** 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

- -
- -

```
L0002127        0   0.88950E-07  415426.4 3746956.1   49.0   3.49   4.00
3.25     YES
L0002128        0   0.88950E-07  415417.8 3746956.1   49.0   3.49   4.00
3.25     YES
L0002129        0   0.88950E-07  415409.2 3746956.1   49.0   3.49   4.00
3.25     YES
L0002130        0   0.88780E-07  417720.7 3748543.6   64.8   3.49   4.00
3.25     YES
L0002131        0   0.88780E-07  417720.8 3748535.0   64.7   3.49   4.00
3.25     YES
L0002132        0   0.88780E-07  417720.8 3748526.4   64.6   3.49   4.00
3.25     YES
L0002133        0   0.88780E-07  417720.8 3748517.8   64.5   3.49   4.00
3.25     YES
L0002134        0   0.88780E-07  417720.8 3748509.2   64.5   3.49   4.00
3.25     YES
L0002135        0   0.88780E-07  417720.9 3748500.7   64.4   3.49   4.00
3.25     YES
L0002136        0   0.88780E-07  417720.9 3748492.1   64.3   3.49   4.00
3.25     YES
L0002137        0   0.88780E-07  417720.9 3748483.5   64.2   3.49   4.00
3.25     YES
L0002138        0   0.88780E-07  417721.0 3748474.9   64.1   3.49   4.00
3.25     YES
L0002139        0   0.88780E-07  417721.0 3748466.3   64.0   3.49   4.00
3.25     YES
L0002140        0   0.88780E-07  417721.0 3748457.7   63.9   3.49   4.00
3.25     YES
L0002141        0   0.88780E-07  417721.1 3748449.1   63.8   3.49   4.00
3.25     YES
L0002142        0   0.88780E-07  417721.1 3748440.5   63.7   3.49   4.00
3.25     YES
L0002143        0   0.88780E-07  417721.1 3748431.9   63.6   3.49   4.00
3.25     YES
L0002144        0   0.88780E-07  417721.1 3748423.3   63.5   3.49   4.00
3.25     YES
L0002145        0   0.88780E-07  417721.2 3748414.8   63.4   3.49   4.00
3.25     YES
L0002146        0   0.88780E-07  417721.2 3748406.2   63.3   3.49   4.00
3.25     YES
L0002147        0   0.88780E-07  417721.2 3748397.6   63.2   3.49   4.00
3.25     YES
L0002148        0   0.88780E-07  417721.3 3748389.0   63.1   3.49   4.00
3.25     YES
L0002149        0   0.88780E-07  417721.3 3748380.4   63.1   3.49   4.00
3.25     YES
L0002150        0   0.88780E-07  417721.3 3748371.8   63.0   3.49   4.00
3.25     YES
L0002151        0   0.88780E-07  417721.3 3748363.2   63.0   3.49   4.00
```

```
3.25     YES
 L0002152        0   0.88780E-07  417721.4 3748354.6   63.0     3.49     4.00
3.25     YES
 L0002153        0   0.88780E-07  417721.4 3748346.0   63.0     3.49     4.00
3.25     YES
 L0002154        0   0.88780E-07  417721.4 3748337.4   63.0     3.49     4.00
3.25     YES
 L0002155        0   0.88780E-07  417721.5 3748328.9   63.0     3.49     4.00
3.25     YES
 L0002156        0   0.88780E-07  417721.5 3748320.3   63.0     3.49     4.00
3.25     YES
 L0002157        0   0.88780E-07  417721.5 3748311.7   63.0     3.49     4.00
3.25     YES
 L0002158        0   0.88780E-07  417721.6 3748303.1   63.0     3.49     4.00
3.25     YES
 L0002159        0   0.88780E-07  417721.6 3748294.5   63.0     3.49     4.00
3.25     YES
 L0002160        0   0.88780E-07  417721.6 3748285.9   63.0     3.49     4.00
3.25     YES
 L0002161        0   0.88780E-07  417721.6 3748277.3   62.9     3.49     4.00
3.25     YES
 L0002162        0   0.88780E-07  417721.7 3748268.7   62.8     3.49     4.00
3.25     YES
 L0002163        0   0.88780E-07  417721.7 3748260.1   62.8     3.49     4.00
3.25     YES
 L0002164        0   0.88780E-07  417721.7 3748251.5   62.7     3.49     4.00
3.25     YES
 L0002165        0   0.88780E-07  417721.8 3748243.0   62.6     3.49     4.00
3.25     YES
 L0002166        0   0.88780E-07  417721.8 3748234.4   62.5     3.49     4.00
3.25     YES
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   11:41:47

                            PAGE 25
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

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

```
L0002167        0   0.88780E-07  417721.8 3748225.8    62.4    3.49    4.00
3.25    YES
L0002168        0   0.88780E-07  417721.8 3748217.2    62.3    3.49    4.00
3.25    YES
L0002169        0   0.88780E-07  417721.9 3748208.6    62.2    3.49    4.00
3.25    YES
L0002170        0   0.88780E-07  417721.9 3748200.0    62.1    3.49    4.00
3.25    YES
L0002171        0   0.88780E-07  417721.9 3748191.4    62.0    3.49    4.00
3.25    YES
L0002172        0   0.88780E-07  417722.0 3748182.8    62.0    3.49    4.00
3.25    YES
L0002173        0   0.88780E-07  417722.0 3748174.2    62.0    3.49    4.00
3.25    YES
L0002174        0   0.88780E-07  417722.0 3748165.6    62.0    3.49    4.00
3.25    YES
L0002175        0   0.88780E-07  417722.1 3748157.1    62.0    3.49    4.00
3.25    YES
L0002176        0   0.88780E-07  417722.1 3748148.5    62.0    3.49    4.00
3.25    YES
L0002177        0   0.88780E-07  417722.1 3748139.9    62.0    3.49    4.00
3.25    YES
L0002178        0   0.88780E-07  417722.1 3748131.3    62.0    3.49    4.00
3.25    YES
L0002179        0   0.88780E-07  417722.2 3748122.7    62.0    3.49    4.00
3.25    YES
L0002180        0   0.88780E-07  417722.2 3748114.1    62.0    3.49    4.00
3.25    YES
L0002181        0   0.88780E-07  417722.2 3748105.5    62.0    3.49    4.00
3.25    YES
L0002182        0   0.88780E-07  417722.3 3748096.9    62.0    3.49    4.00
3.25    YES
L0002183        0   0.88780E-07  417722.3 3748088.3    62.0    3.49    4.00
3.25    YES
L0002184        0   0.88780E-07  417722.3 3748079.7    62.0    3.49    4.00
3.25    YES
L0002185        0   0.88780E-07  417722.3 3748071.2    62.0    3.49    4.00
3.25    YES
L0002186        0   0.88780E-07  417722.4 3748062.6    62.0    3.49    4.00
3.25    YES
L0002187        0   0.88780E-07  417722.4 3748054.0    62.0    3.49    4.00
3.25    YES
L0002188        0   0.88780E-07  417722.4 3748045.4    62.0    3.49    4.00
3.25    YES
L0002189        0   0.88780E-07  417722.5 3748036.8    62.0    3.49    4.00
3.25    YES
L0002190        0   0.88780E-07  417722.5 3748028.2    62.0    3.49    4.00
3.25    YES
L0002191        0   0.88780E-07  417722.5 3748019.6    62.0    3.49    4.00
```

```
3.25     YES
 L0002192      0   0.88780E-07  417722.6 3748011.0    62.0    3.49    4.00
3.25     YES
 L0002193      0   0.88780E-07  417722.6 3748002.4    62.0    3.49    4.00
3.25     YES
 L0002194      0   0.88780E-07  417722.6 3747993.8    61.9    3.49    4.00
3.25     YES
 L0002195      0   0.88780E-07  417722.6 3747985.3    61.8    3.49    4.00
3.25     YES
 L0002196      0   0.88780E-07  417722.4 3747976.7    61.7    3.49    4.00
3.25     YES
 L0002197      0   0.88780E-07  417722.1 3747968.1    61.6    3.49    4.00
3.25     YES
 L0002198      0   0.88780E-07  417721.8 3747959.5    61.5    3.49    4.00
3.25     YES
 L0002199      0   0.88780E-07  417721.6 3747950.9    61.4    3.49    4.00
3.25     YES
 L0002200      0   0.88780E-07  417721.3 3747942.3    61.3    3.49    4.00
3.25     YES
 L0002201      0   0.88780E-07  417721.0 3747933.7    61.2    3.49    4.00
3.25     YES
 L0002202      0   0.88780E-07  417720.7 3747925.2    61.1    3.49    4.00
3.25     YES
 L0002203      0   0.88780E-07  417720.4 3747916.6    61.0    3.49    4.00
3.25     YES
 L0002204      0   0.88780E-07  417720.2 3747908.0    61.0    3.49    4.00
3.25     YES
 L0002205      0   0.88780E-07  417719.9 3747899.4    61.0    3.49    4.00
3.25     YES
 L0002206      0   0.88780E-07  417719.6 3747890.8    61.0    3.49    4.00
3.25     YES
```

⬆ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                              PAGE 26
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

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

```
L0002207          0    0.88780E-07   417719.3 3747882.2     61.0      3.49      4.00
3.25     YES
L0002208          0    0.88780E-07   417719.0 3747873.6     61.0      3.49      4.00
3.25     YES
L0002209          0    0.88780E-07   417718.8 3747865.1     61.0      3.49      4.00
3.25     YES
L0002210          0    0.88780E-07   417718.8 3747856.5     61.0      3.49      4.00
3.25     YES
L0002211          0    0.88780E-07   417718.8 3747847.9     61.0      3.49      4.00
3.25     YES
L0002212          0    0.88780E-07   417718.8 3747839.3     61.0      3.49      4.00
3.25     YES
L0002213          0    0.88780E-07   417718.8 3747830.7     61.0      3.49      4.00
3.25     YES
L0002214          0    0.88780E-07   417718.8 3747822.1     61.0      3.49      4.00
3.25     YES
L0002215          0    0.88780E-07   417718.8 3747813.5     60.9      3.49      4.00
3.25     YES
L0002216          0    0.88780E-07   417718.8 3747804.9     60.8      3.49      4.00
3.25     YES
L0002217          0    0.88780E-07   417718.8 3747796.3     60.7      3.49      4.00
3.25     YES
L0002218          0    0.88780E-07   417718.8 3747787.8     60.6      3.49      4.00
3.25     YES
L0002219          0    0.88780E-07   417718.8 3747779.2     60.5      3.49      4.00
3.25     YES
L0002220          0    0.88780E-07   417718.8 3747770.6     60.5      3.49      4.00
3.25     YES
L0002221          0    0.88780E-07   417718.8 3747762.0     60.4      3.49      4.00
3.25     YES
L0002222          0    0.88780E-07   417718.8 3747753.4     60.3      3.49      4.00
3.25     YES
L0002223          0    0.88780E-07   417719.0 3747744.8     60.2      3.49      4.00
3.25     YES
L0002224          0    0.88780E-07   417719.2 3747736.2     60.1      3.49      4.00
3.25     YES
L0002225          0    0.88780E-07   417719.5 3747727.6     60.0      3.49      4.00
3.25     YES
L0002226          0    0.88780E-07   417719.7 3747719.0     60.0      3.49      4.00
3.25     YES
L0002227          0    0.88780E-07   417720.0 3747710.5     60.0      3.49      4.00
3.25     YES
L0002228          0    0.88780E-07   417720.2 3747701.9     60.0      3.49      4.00
3.25     YES
L0002229          0    0.88780E-07   417720.5 3747693.3     60.0      3.49      4.00
3.25     YES
L0002230          0    0.88780E-07   417720.7 3747684.7     60.0      3.49      4.00
3.25     YES
L0002231          0    0.88780E-07   417721.0 3747676.1     60.0      3.49      4.00
```

```
3.25    YES
 L0002232         0   0.88780E-07   417721.2 3747667.5    60.0     3.49    4.00
3.25    YES
 L0002233         0   0.88780E-07   417721.4 3747658.9    60.0     3.49    4.00
3.25    YES
 L0002234         0   0.88780E-07   417721.7 3747650.4    60.0     3.49    4.00
3.25    YES
 L0002235         0   0.88780E-07   417721.9 3747641.8    60.0     3.49    4.00
3.25    YES
 L0002236         0   0.88780E-07   417722.2 3747633.2    60.0     3.49    4.00
3.25    YES
 L0002237         0   0.88780E-07   417722.4 3747624.6    59.9     3.49    4.00
3.25    YES
 L0002238         0   0.88780E-07   417722.7 3747616.0    59.8     3.49    4.00
3.25    YES
 L0002239         0   0.88780E-07   417722.9 3747607.4    59.7     3.49    4.00
3.25    YES
 L0002240         0   0.88780E-07   417723.2 3747598.8    59.6     3.49    4.00
3.25    YES
 L0002241         0   0.88780E-07   417723.4 3747590.2    59.5     3.49    4.00
3.25    YES
 L0002242         0   0.88780E-07   417723.7 3747581.7    59.4     3.49    4.00
3.25    YES
 L0002243         0   0.88780E-07   417723.9 3747573.1    59.3     3.49    4.00
3.25    YES
 L0002244         0   0.88780E-07   417724.1 3747564.5    59.2     3.49    4.00
3.25    YES
 L0002245         0   0.88780E-07   417724.4 3747555.9    59.1     3.49    4.00
3.25    YES
 L0002246         0   0.88780E-07   417724.6 3747547.3    59.0     3.49    4.00
3.25    YES
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                           ***   11:41:47

                              PAGE 27
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                     *** VOLUME SOURCE DATA ***

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

```
L0002247          0   0.88780E-07  417724.7 3747538.7    59.0    3.49    4.00
3.25     YES
L0002248          0   0.88780E-07  417724.8 3747530.1    59.0    3.49    4.00
3.25     YES
L0002249          0   0.88780E-07  417724.9 3747521.5    59.0    3.49    4.00
3.25     YES
L0002250          0   0.88780E-07  417725.0 3747513.0    59.0    3.49    4.00
3.25     YES
L0002251          0   0.88780E-07  417725.1 3747504.4    59.0    3.49    4.00
3.25     YES
L0002252          0   0.88780E-07  417725.1 3747495.8    59.0    3.49    4.00
3.25     YES
L0002253          0   0.88780E-07  417725.2 3747487.2    59.0    3.49    4.00
3.25     YES
L0002254          0   0.88780E-07  417725.3 3747478.6    59.0    3.49    4.00
3.25     YES
L0002255          0   0.88780E-07  417725.4 3747470.0    59.0    3.49    4.00
3.25     YES
L0002256          0   0.88780E-07  417725.5 3747461.4    59.0    3.49    4.00
3.25     YES
L0002257          0   0.88780E-07  417725.6 3747452.8    59.0    3.49    4.00
3.25     YES
L0002258          0   0.88780E-07  417725.7 3747444.2    58.9    3.49    4.00
3.25     YES
L0002259          0   0.88780E-07  417725.8 3747435.6    58.8    3.49    4.00
3.25     YES
L0002260          0   0.88780E-07  417725.9 3747427.1    58.7    3.49    4.00
3.25     YES
L0002261          0   0.88780E-07  417726.0 3747418.5    58.6    3.49    4.00
3.25     YES
L0002262          0   0.88780E-07  417726.0 3747409.9    58.5    3.49    4.00
3.25     YES
L0002263          0   0.88780E-07  417726.1 3747401.3    58.5    3.49    4.00
3.25     YES
L0002264          0   0.88780E-07  417726.2 3747392.7    58.4    3.49    4.00
3.25     YES
L0002265          0   0.88780E-07  417726.3 3747384.1    58.3    3.49    4.00
3.25     YES
L0002266          0   0.88780E-07  417726.4 3747375.5    58.2    3.49    4.00
3.25     YES
L0002267          0   0.88780E-07  417726.5 3747366.9    58.1    3.49    4.00
3.25     YES
L0002268          0   0.88780E-07  417728.0 3747358.5    58.0    3.49    4.00
3.25     YES
```

                                    *** SOURCE IDs DEFINING SOURCE GROUPS
***

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

   ALL   L0001247   , L0001248   , L0001249   , L0001250   , L0001251   ,
 L0001252   , L0001253   , L0001254   ,

              L0001255   , L0001256   , L0001257   , L0001258   , L0001259   ,
 L0001260   , L0001261   , L0001262   ,

              L0001263   , L0001264   , L0001265   , L0001266   , L0001267   ,
 L0001268   , L0001269   , L0001270   ,

              L0001271   , L0001272   , L0001273   , L0001274   , L0001275   ,
 L0001276   , L0001277   , L0001278   ,

              L0001279   , L0001280   , L0001281   , L0001282   , L0001283   ,
 L0001284   , L0001285   , L0001286   ,

              L0001287   , L0001288   , L0001289   , L0001290   , L0001291   ,
 L0001292   , L0001293   , L0001294   ,

              L0001295   , L0001296   , L0001297   , L0001298   , L0001299   ,
 L0001300   , L0001301   , L0001302   ,

              L0001303   , L0001304   , L0001305   , L0001306   , L0001307   ,
 L0001308   , L0001309   , L0001310   ,

              L0001311   , L0001312   , L0001313   , L0001314   , L0001315   ,
 L0001316   , L0001317   , L0001318   ,

              L0001319   , L0001320   , L0001321   , L0001322   , L0001323   ,
 L0001324   , L0001325   , L0001326   ,

              L0001327   , L0001328   , L0001329   , L0001330   , L0001331   ,
 L0001332   , L0001333   , L0001334   ,

              L0001335   , L0001336   , L0001337   , L0001338   , L0001339   ,
 L0001340   , L0001341   , L0001342   ,

              L0001343   , L0001344   , L0001345   , L0001346   , L0001347   ,
 L0001348   , L0001349   , L0001350   ,

```
          L0001351    , L0001352    , L0001353    , L0001354    , L0001355    ,
L0001356    , L0001357    , L0001358    ,

          L0001359    , L0001360    , L0001361    , L0001362    , L0001363    ,
L0001364    , L0001365    , L0001366    ,

          L0001367    , L0001368    , L0001369    , L0001370    , L0001371    ,
L0001372    , L0001373    , L0001374    ,

          L0001375    , L0001376    , L0001377    , L0001378    , L0001379    ,
L0001380    , L0001381    , L0001382    ,

          L0001383    , L0001384    , L0001385    , L0001386    , L0001387    ,
L0001388    , L0001389    , L0001390    ,

          L0001391    , L0001392    , L0001393    , L0001394    , L0001395    ,
L0001396    , L0001397    , L0001398    ,

          L0001399    , L0001400    , L0001401    , L0001402    , L0001403    ,
L0001404    , L0001405    , L0001406    ,
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   11:41:47

                          PAGE 29
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** SOURCE IDs DEFINING SOURCE GROUPS
***

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


```
          L0001407    , L0001408    , L0001409    , L0001410    , L0001411    ,
L0001412    , L0001413    , L0001414    ,

          L0001415    , L0001416    , L0001417    , L0001418    , L0001419    ,
L0001420    , L0001421    , L0001422    ,

          L0001423    , L0001424    , L0001425    , L0001426    , L0001427    ,
L0001428    , L0001429    , L0001430    ,

          L0001431    , L0001432    , L0001433    , L0001434    , L0001435    ,
L0001436    , L0001437    , L0001438    ,

          L0001439    , L0001440    , L0001441    , L0001442    , L0001443    ,
L0001444    , L0001445    , L0001446    ,
```

```
        L0001447    , L0001448    , L0001449    , L0001450    , L0001451    ,
L0001452    , L0001453    , L0001454    ,

        L0001455    , L0001456    , L0001457    , L0001458    , L0001459    ,
L0001460    , L0001461    , L0001462    ,

        L0001463    , L0001464    , L0001465    , L0001466    , L0001467    ,
L0001468    , L0001469    , L0001470    ,

        L0001471    , L0001472    , L0001473    , L0001474    , L0001475    ,
L0001476    , L0001477    , L0001478    ,

        L0001479    , L0001480    , L0001481    , L0001482    , L0001483    ,
L0001484    , L0001485    , L0001486    ,

        L0001487    , L0001488    , L0001489    , L0001490    , L0001491    ,
L0001492    , L0001493    , L0001494    ,

        L0001495    , L0001496    , L0001497    , L0001498    , L0001499    ,
L0001500    , L0001501    , L0001502    ,

        L0001503    , L0001504    , L0001505    , L0001506    , L0001507    ,
L0001508    , L0001509    , L0001510    ,

        L0001511    , L0001512    , L0001513    , L0001514    , L0001515    ,
L0001516    , L0001517    , L0001518    ,

        L0001519    , L0001520    , L0001521    , L0001522    , L0001523    ,
L0001524    , L0001525    , L0001526    ,

        L0001527    , L0001528    , L0001529    , L0001530    , L0001531    ,
L0001532    , L0001533    , L0001534    ,

        L0001535    , L0001536    , L0001537    , L0001538    , L0001539    ,
L0001540    , L0001541    , L0001542    ,

        L0001543    , L0001544    , L0001545    , L0001546    , L0001547    ,
L0001548    , L0001549    , L0001550    ,

        L0001551    , L0001552    , L0001553    , L0001554    , L0001555    ,
L0001556    , L0001557    , L0001558    ,

        L0001559    , L0001560    , L0001561    , L0001562    , L0001563    ,
L0001564    , L0001565    , L0001566    ,
```
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                                      *** SOURCE IDs DEFINING SOURCE GROUPS
***

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

          L0001567   , L0001568   , L0001569   , L0001570   , L0001571   ,
L0001572   , L0001573   , L0001574   ,

          L0001575   , L0001576   , L0001577   , L0001578   , L0001579   ,
L0001580   , L0001581   , L0001582   ,

          L0001583   , L0001584   , L0001585   , L0001586   , L0001587   ,
L0001588   , L0001589   , L0001590   ,

          L0001591   , L0001592   , L0001593   , L0001594   , L0001595   ,
L0001596   , L0001597   , L0001598   ,

          L0001599   , L0001600   , L0001601   , L0001602   , L0001603   ,
L0001604   , L0001605   , L0001606   ,

          L0001607   , L0001608   , L0001609   , L0001610   , L0001611   ,
L0001612   , L0001613   , L0001614   ,

          L0001615   , L0001616   , L0001617   , L0001618   , L0001619   ,
L0001620   , L0001621   , L0001622   ,

          L0001623   , L0001624   , L0001625   , L0001626   , L0001627   ,
L0001628   , L0001629   , L0001630   ,

          L0001631   , L0001632   , L0001633   , L0001634   , L0001635   ,
L0001636   , L0001637   , L0001638   ,

          L0001639   , L0001640   , L0001641   , L0001642   , L0001643   ,
L0001644   , L0001645   , L0001646   ,

          L0001647   , L0001648   , L0001649   , L0001650   , L0001651   ,
L0001652   , L0001653   , L0001654   ,

          L0001655   , L0001656   , L0001657   , L0001658   , L0001659   ,
L0001660   , L0001661   , L0001662   ,

          L0001663   , L0001664   , L0001665   , L0001666   , L0001667   ,
L0001668   , L0001669   , L0001670   ,

```
          L0001671    , L0001672    , L0001673    , L0001674    , L0001675    ,
L0001676    , L0001677    , L0001678    ,

          L0001679    , L0001680    , L0001681    , L0001682    , L0001683    ,
L0001684    , L0001685    , L0001686    ,

          L0001687    , L0001688    , L0001689    , L0001690    , L0001691    ,
L0001692    , L0001693    , L0001694    ,

          L0001695    , L0001696    , L0001697    , L0001698    , L0001699    ,
L0001700    , L0001701    , L0001702    ,

          L0001703    , L0001704    , L0001705    , L0001706    , L0001707    ,
L0001708    , L0001709    , L0001710    ,

          L0001711    , L0001712    , L0001713    , L0001714    , L0001715    ,
L0001716    , L0001717    , L0001718    ,

          L0001719    , L0001720    , L0001721    , L0001722    , L0001723    ,
L0001724    , L0001725    , L0001726    ,
```

                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

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


```
          L0001727    , L0001728    , L0001729    , L0001730    , L0001731    ,
L0001732    , L0001733    , L0001734    ,

          L0001735    , L0001736    , L0001737    , L0001738    , L0001739    ,
L0001740    , L0001741    , L0001742    ,

          L0001743    , L0001744    , L0001745    , L0001746    , L0001747    ,
L0001748    , L0001749    , L0001750    ,

          L0001751    , L0001752    , L0001753    , L0001754    , L0001755    ,
L0001756    , L0001757    , L0001758    ,

          L0001759    , L0001760    , L0001761    , L0001762    , L0001763    ,
L0001764    , L0001765    , L0001766    ,
```

```
          L0001767    , L0001768    , L0001769    , L0001770    , L0001771    ,
L0001772    , L0001773    , L0001774    ,

          L0001775    , L0001776    , L0001777    , L0001778    , L0001779    ,
L0001780    , L0001781    , L0001782    ,

          L0001783    , L0001784    , L0001785    , L0001786    , L0001787    ,
L0001788    , L0001789    , L0001790    ,

          L0001791    , L0001792    , L0001793    , L0001794    , L0001795    ,
L0001796    , L0001797    , L0001798    ,

          L0001799    , L0001800    , L0001801    , L0001802    , L0001803    ,
L0001804    , L0001805    , L0001806    ,

          L0001807    , L0001808    , L0001809    , L0001810    , L0001811    ,
L0001812    , L0001813    , L0001814    ,

          L0001815    , L0001816    , L0001817    , L0001818    , L0001819    ,
L0001820    , L0001821    , L0001822    ,

          L0001823    , L0001824    , L0001825    , L0001826    , L0001827    ,
L0001828    , L0001829    , L0001830    ,

          L0001831    , L0001832    , L0001833    , L0001834    , L0001835    ,
L0001836    , L0001837    , L0001838    ,

          L0001839    , L0001840    , L0001841    , L0001842    , L0001843    ,
L0001844    , L0001845    , L0001846    ,

          L0001847    , L0001848    , L0001849    , L0001850    , L0001851    ,
L0001852    , L0001853    , L0001854    ,

          L0001855    , L0001856    , L0001857    , L0001858    , L0001859    ,
L0001860    , L0001861    , L0001862    ,

          L0001863    , L0001864    , L0001865    , L0001866    , L0001867    ,
L0001868    , L0001869    , L0001870    ,

          L0001871    , L0001872    , L0001873    , L0001874    , L0001875    ,
L0001876    , L0001877    , L0001878    ,

          L0001879    , L0001880    , L0001881    , L0001882    , L0001883    ,
L0001884    , L0001885    , L0001886    ,
```

 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                                      *** SOURCE IDs DEFINING SOURCE GROUPS
***

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

          L0001887   , L0001888   , L0001889   , L0001890   , 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    , 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    ,
```
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                          PAGE 33
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** SOURCE IDs DEFINING SOURCE GROUPS
***

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


```
          L0002047    , L0002048    , L0002049    , L0002050    , 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   , L0002115   ,
L0002116   , L0002117   , L0002118   ,

        L0002119   , L0002120   , L0002121   , L0002122   , 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   ,
```

 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                                       *** SOURCE IDs DEFINING SOURCE GROUPS
***

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

          L0002207   , L0002208   , L0002209   , L0002210   , 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   ,
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                      ***   11:41:47

 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

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

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

3010232.   L0001247   , L0001248   , L0001249   , L0001250   ,
L0001251   , L0001252   , L0001253   ,
 L0001254   ,

L0001255   , L0001256   , L0001257   , L0001258   , L0001259   ,
L0001260   , L0001261   , L0001262   ,

L0001263   , L0001264   , L0001265   , L0001266   , L0001267   ,
L0001268   , L0001269   , L0001270   ,

L0001271   , L0001272   , L0001273   , L0001274   , L0001275   ,
L0001276   , L0001277   , L0001278   ,

L0001279   , L0001280   , L0001281   , L0001282   , L0001283   ,
L0001284   , L0001285   , L0001286   ,

L0001287   , L0001288   , L0001289   , L0001290   , L0001291   ,
L0001292   , L0001293   , L0001294   ,

L0001295   , L0001296   , L0001297   , L0001298   , L0001299   ,
L0001300   , L0001301   , L0001302   ,

L0001303   , L0001304   , L0001305   , L0001306   , L0001307   ,
L0001308   , L0001309   , L0001310   ,

L0001311   , L0001312   , L0001313   , L0001314   , L0001315   ,
L0001316   , L0001317   , L0001318   ,

L0001319   , L0001320   , L0001321   , L0001322   , L0001323   ,
L0001324   , L0001325   , L0001326   ,

L0001327   , L0001328   , L0001329   , L0001330   , L0001331   ,
L0001332   , L0001333   , L0001334   ,

L0001335   , L0001336   , L0001337   , L0001338   , L0001339   ,
L0001340   , L0001341   , L0001342   ,

L0001343   , L0001344   , L0001345   , L0001346   , L0001347   ,
L0001348   , L0001349   , L0001350   ,

L0001351   , L0001352   , L0001353   , L0001354   , L0001355   ,
L0001356   , L0001357   , L0001358   ,

L0001359   , L0001360   , L0001361   , L0001362   , L0001363   ,
L0001364   , L0001365   , L0001366   ,

L0001367   , L0001368   , L0001369   , L0001370   , L0001371   ,
L0001372   , L0001373   , L0001374   ,

L0001375   , L0001376   , L0001377   , L0001378   , L0001379   ,

```
L0001380    , L0001381    , L0001382    ,

           L0001383    , L0001384    , L0001385    , L0001386    , L0001387    ,
L0001388    , L0001389    , L0001390    ,

           L0001391    , L0001392    , L0001393    , L0001394    , L0001395    ,
L0001396    , L0001397    , L0001398    ,

           L0001399    , L0001400    , L0001401    , L0001402    , L0001403    ,
L0001404    , L0001405    , L0001406    ,
```
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   11:41:47

                         PAGE 36
 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

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

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


```
           L0001407    , L0001408    , L0001409    , L0001410    , L0001411    ,
L0001412    , L0001413    , L0001414    ,

           L0001415    , L0001416    , L0001417    , L0001418    , L0001419    ,
L0001420    , L0001421    , L0001422    ,

           L0001423    , L0001424    , L0001425    , L0001426    , L0001427    ,
L0001428    , L0001429    , L0001430    ,

           L0001431    , L0001432    , L0001433    , L0001434    , L0001435    ,
L0001436    , L0001437    , L0001438    ,

           L0001439    , L0001440    , L0001441    , L0001442    , L0001443    ,
L0001444    , L0001445    , L0001446    ,

           L0001447    , L0001448    , L0001449    , L0001450    , L0001451    ,
L0001452    , L0001453    , L0001454    ,

           L0001455    , L0001456    , L0001457    , L0001458    , L0001459    ,
L0001460    , L0001461    , L0001462    ,

           L0001463    , L0001464    , L0001465    , L0001466    , L0001467    ,
L0001468    , L0001469    , L0001470    ,
```

```
          L0001471    , L0001472    , L0001473    , L0001474    , L0001475    ,
L0001476    , L0001477    , L0001478    ,

          L0001479    , L0001480    , L0001481    , L0001482    , L0001483    ,
L0001484    , L0001485    , L0001486    ,

          L0001487    , L0001488    , L0001489    , L0001490    , L0001491    ,
L0001492    , L0001493    , L0001494    ,

          L0001495    , L0001496    , L0001497    , L0001498    , L0001499    ,
L0001500    , L0001501    , L0001502    ,

          L0001503    , L0001504    , L0001505    , L0001506    , L0001507    ,
L0001508    , L0001509    , L0001510    ,

          L0001511    , L0001512    , L0001513    , L0001514    , L0001515    ,
L0001516    , L0001517    , L0001518    ,

          L0001519    , L0001520    , L0001521    , L0001522    , L0001523    ,
L0001524    , L0001525    , L0001526    ,

          L0001527    , L0001528    , L0001529    , L0001530    , L0001531    ,
L0001532    , L0001533    , L0001534    ,

          L0001535    , L0001536    , L0001537    , L0001538    , L0001539    ,
L0001540    , L0001541    , L0001542    ,

          L0001543    , L0001544    , L0001545    , L0001546    , L0001547    ,
L0001548    , L0001549    , L0001550    ,

          L0001551    , L0001552    , L0001553    , L0001554    , L0001555    ,
L0001556    , L0001557    , L0001558    ,

          L0001559    , L0001560    , L0001561    , L0001562    , L0001563    ,
L0001564    , L0001565    , L0001566    ,
```
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                        PAGE 37
 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

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

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

L0001567	, L0001568	, L0001569	, L0001570	, L0001571	,
L0001572	, L0001573	, L0001574	,

L0001575	, L0001576	, L0001577	, L0001578	, L0001579	,
L0001580	, L0001581	, L0001582	,

L0001583	, L0001584	, L0001585	, L0001586	, L0001587	,
L0001588	, L0001589	, L0001590	,

L0001591	, L0001592	, L0001593	, L0001594	, L0001595	,
L0001596	, L0001597	, L0001598	,

L0001599	, L0001600	, L0001601	, L0001602	, L0001603	,
L0001604	, L0001605	, L0001606	,

L0001607	, L0001608	, L0001609	, L0001610	, L0001611	,
L0001612	, L0001613	, L0001614	,

L0001615	, L0001616	, L0001617	, L0001618	, L0001619	,
L0001620	, L0001621	, L0001622	,

L0001623	, L0001624	, L0001625	, L0001626	, L0001627	,
L0001628	, L0001629	, L0001630	,

L0001631	, L0001632	, L0001633	, L0001634	, L0001635	,
L0001636	, L0001637	, L0001638	,

L0001639	, L0001640	, L0001641	, L0001642	, L0001643	,
L0001644	, L0001645	, L0001646	,

L0001647	, L0001648	, L0001649	, L0001650	, L0001651	,
L0001652	, L0001653	, L0001654	,

L0001655	, L0001656	, L0001657	, L0001658	, L0001659	,
L0001660	, L0001661	, L0001662	,

L0001663	, L0001664	, L0001665	, L0001666	, L0001667	,
L0001668	, L0001669	, L0001670	,

L0001671	, L0001672	, L0001673	, L0001674	, L0001675	,
L0001676	, L0001677	, L0001678	,

L0001679	, L0001680	, L0001681	, L0001682	, L0001683	,
L0001684	, L0001685	, L0001686	,

L0001687	, L0001688	, L0001689	, L0001690	, L0001691	,
L0001692	, L0001693	, L0001694	,

L0001695	, L0001696	, L0001697	, L0001698	, L0001699	,

```
L0001700   , L0001701   , L0001702   ,

          L0001703   , L0001704   , L0001705   , L0001706   , L0001707   ,
L0001708   , L0001709   , L0001710   ,

          L0001711   , L0001712   , L0001713   , L0001714   , L0001715   ,
L0001716   , L0001717   , L0001718   ,

          L0001719   , L0001720   , L0001721   , L0001722   , L0001723   ,
L0001724   , L0001725   , L0001726   ,
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                       ***   11:41:47

                       PAGE 38
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

          L0001727   , L0001728   , L0001729   , L0001730   , L0001731   ,
L0001732   , L0001733   , L0001734   ,

          L0001735   , L0001736   , L0001737   , L0001738   , L0001739   ,
L0001740   , L0001741   , L0001742   ,

          L0001743   , L0001744   , L0001745   , L0001746   , L0001747   ,
L0001748   , L0001749   , L0001750   ,

          L0001751   , L0001752   , L0001753   , L0001754   , L0001755   ,
L0001756   , L0001757   , L0001758   ,

          L0001759   , L0001760   , L0001761   , L0001762   , L0001763   ,
L0001764   , L0001765   , L0001766   ,

          L0001767   , L0001768   , L0001769   , L0001770   , L0001771   ,
L0001772   , L0001773   , L0001774   ,

          L0001775   , L0001776   , L0001777   , L0001778   , L0001779   ,
L0001780   , L0001781   , L0001782   ,

          L0001783   , L0001784   , L0001785   , L0001786   , L0001787   ,
L0001788   , L0001789   , L0001790   ,
```

```
         L0001791   , L0001792   , L0001793   , L0001794   , L0001795   ,
L0001796   , L0001797   , L0001798   ,

         L0001799   , L0001800   , L0001801   , L0001802   , L0001803   ,
L0001804   , L0001805   , L0001806   ,

         L0001807   , L0001808   , L0001809   , L0001810   , L0001811   ,
L0001812   , L0001813   , L0001814   ,

         L0001815   , L0001816   , L0001817   , L0001818   , L0001819   ,
L0001820   , L0001821   , L0001822   ,

         L0001823   , L0001824   , L0001825   , L0001826   , L0001827   ,
L0001828   , L0001829   , L0001830   ,

         L0001831   , L0001832   , L0001833   , L0001834   , L0001835   ,
L0001836   , L0001837   , L0001838   ,

         L0001839   , L0001840   , L0001841   , L0001842   , L0001843   ,
L0001844   , L0001845   , L0001846   ,

         L0001847   , L0001848   , L0001849   , L0001850   , L0001851   ,
L0001852   , L0001853   , L0001854   ,

         L0001855   , L0001856   , L0001857   , L0001858   , L0001859   ,
L0001860   , L0001861   , L0001862   ,

         L0001863   , L0001864   , L0001865   , L0001866   , L0001867   ,
L0001868   , L0001869   , L0001870   ,

         L0001871   , L0001872   , L0001873   , L0001874   , L0001875   ,
L0001876   , L0001877   , L0001878   ,

         L0001879   , L0001880   , L0001881   , L0001882   , L0001883   ,
L0001884   , L0001885   , L0001886   ,
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   11:41:47

                          PAGE 39

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

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

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

L0001887 , L0001888 , L0001889 , L0001890 , 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 , 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    ,
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                        ***   11:41:47

                              PAGE 40

 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

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

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

```
                L0002047    , L0002048    , L0002049    , L0002050    , 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    , L0002115    ,
L0002116   , L0002117   , L0002118    ,

         L0002119    , L0002120    , L0002121    , L0002122    , 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    ,
```
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                         ***   11:41:47

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

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

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

```
          L0002207    , L0002208    , L0002209    , L0002210    , 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    ,
```
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                       ***   11:41:47

```
                              PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC   ELEV   URBAN   ADJ_U*


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


   ( 416599.4, 3747177.7,      53.0,      53.0,      0.0);        ( 416625.4,
3746916.5,      52.0,      52.0,      0.0);
   ( 417682.8, 3747428.4,      58.8,      58.8,      0.0);        ( 417200.4,
3746576.5,      53.0,      53.0,      0.0);
   ( 418045.2, 3747006.9,      57.0,      57.0,      0.0);        ( 417601.3,
3747089.0,      57.0,      57.0,      0.0);
   ( 416891.5, 3747936.3,      57.1,      57.1,      0.0);        ( 417222.4,
3747968.4,      59.0,      59.0,      0.0);
   ( 417756.6, 3747903.5,      61.0,      61.0,      0.0);
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                       ***   11:41:47

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** 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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
         1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 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,
♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                      ***   11:41:47

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

   Surface file: FULLERTONAIRPORTADJU\KFUL_V9_ADJU\KFUL_V9.SFC
              Met Version: 16216
   Profile file: FULLERTONAIRPORTADJU\KFUL_V9_ADJU\KFUL_V9.PFL

```
    Surface format: FREE

    Profile format: FREE

    Surface station no.:     3166                    Upper air station no.:      3190
                  Name: UNKNOWN                                    Name: UNKNOWN

                  Year:    2012                                    Year:    2012

  First 24 hours of scalar data
  YR MO DY JDY HR      H0       U*      W*    DT/DZ ZICNV ZIMCH  M-O LEN    Z0   BOWEN
 ALBEDO  REF WS   WD       HT   REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
 12 01 01   1 01   -4.8  0.098 -9.000 -9.000 -999.   74.     18.0  0.26   2.61
1.00   0.96 322.   10.1 283.8    2.0
 12 01 01   1 02   -1.9  0.072 -9.000 -9.000 -999.   47.     18.0  0.26   2.61
1.00   0.52  13.   10.1 283.1    2.0
 12 01 01   1 03   -3.1  0.083 -9.000 -9.000 -999.   57.     16.3  0.26   2.61
1.00   0.75  73.   10.1 282.0    2.0
 12 01 01   1 04   -4.3  0.094 -9.000 -9.000 -999.   69.     17.3  0.26   2.61
1.00   0.91  98.   10.1 281.4    2.0
 12 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.26   2.61
1.00   0.00   0.   10.1 280.9    2.0
 12 01 01   1 06   -2.1  0.074 -9.000 -9.000 -999.   48.     17.6  0.26   2.61
1.00   0.55  80.   10.1 280.4    2.0
 12 01 01   1 07   -2.8  0.080 -9.000 -9.000 -999.   54.     16.3  0.26   2.61
1.00   0.69 201.   10.1 280.4    2.0
 12 01 01   1 08   -1.5  0.066 -9.000 -9.000 -999.   41.     17.0  0.26   2.61
0.54   0.52  72.   10.1 280.9    2.0
 12 01 01   1 09   37.4 -9.000 -9.000 -9.000   38. -999. -99999.0  0.26   2.61
0.31   0.00   0.   10.1 285.9    2.0
 12 01 01   1 10  109.1  0.151  0.713  0.008  121.  141.     -2.9  0.26   2.61
0.24   0.79 268.   10.1 289.9    2.0
 12 01 01   1 11  160.5  0.148  1.143  0.005  338.  136.     -1.8  0.26   2.61
0.21   0.70 273.   10.1 294.2    2.0
 12 01 01   1 12  186.9  0.156  1.483  0.005  634.  148.     -1.8  0.26   2.61
0.20   0.74 230.   10.1 297.5    2.0
 12 01 01   1 13  187.4  0.210  1.777  0.005 1088.  231.     -4.5  0.26   2.61
0.20   1.20 227.   10.1 300.4    2.0
 12 01 01   1 14  160.3  0.235  1.833  0.005 1395.  274.     -7.4  0.26   2.61
0.21   1.47 233.   10.1 300.9    2.0
 12 01 01   1 15  109.1  0.197  1.662  0.005 1527.  210.     -6.3  0.26   2.61
0.25   1.20 233.   10.1 302.0    2.0
 12 01 01   1 16   33.3  0.243  1.125  0.005 1548.  288.    -39.2  0.26   2.61
0.33   1.91 229.   10.1 298.1    2.0
 12 01 01   1 17   -9.1  0.141 -9.000 -9.000 -999.  132.     28.3  0.26   2.61
0.60   1.37 212.   10.1 294.2    2.0
 12 01 01   1 18   -4.3  0.094 -9.000 -9.000 -999.   69.     17.5  0.26   2.61
1.00   0.91 190.   10.1 292.0    2.0
```

```
 12 01 01   1 19   -2.8  0.079 -9.000 -9.000 -999.    54.     16.3  0.26   2.61
1.00   0.70 302.   10.1 289.2   2.0
 12 01 01   1 20   -4.0  0.091 -9.000 -9.000 -999.    65.     17.0  0.26   2.61
1.00   0.87 338.   10.1 288.1   2.0
 12 01 01   1 21   -6.3  0.113 -9.000 -9.000 -999.    91.     20.5  0.26   2.61
1.00   1.11 304.   10.1 287.0   2.0
 12 01 01   1 22   -3.1  0.082 -9.000 -9.000 -999.    57.     16.3  0.26   2.61
1.00   0.75  76.   10.1 285.4   2.0
 12 01 01   1 23   -2.4  0.076 -9.000 -9.000 -999.    50.     16.7  0.26   2.61
1.00   0.62 306.   10.1 284.9   2.0
 12 01 01   1 24   -3.6  0.087 -9.000 -9.000 -999.    62.     16.6  0.26   2.61
1.00   0.82 318.   10.1 283.8   2.0


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

 F indicates top of profile (=1) or below (=0)
♠ *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC              ***          06/03/20
 *** AERMET - VERSION  16216 ***    ***
                         ***          11:41:47


                          PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):    L0001247    , L0001248
 , L0001249    , L0001250    , L0001251    ,
                    L0001252    , L0001253    , L0001254    , L0001255    , L0001256
 , L0001257    , L0001258    , L0001259    ,
                    L0001260    , L0001261    , L0001262    , L0001263    , L0001264
 , L0001265    , L0001266    , L0001267    ,
                    L0001268    , L0001269    , L0001270    , L0001271    , L0001272
 , L0001273    , L0001274    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
       416599.41   3747177.74       0.00275                        416625.39
3746916.54        0.00333
```

```
       417682.83    3747428.40       0.00520                         417200.42
3746576.48       0.00241
       418045.16    3747006.92       0.00441                         417601.27
3747088.97       0.01387
       416891.53    3747936.27       0.00134                         417222.38
3747968.41       0.00152
       417756.65    3747903.46       0.00192
```

♠ *** AERMOD - VERSION 19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
OPS HRA.ISC   ***   06/03/20
 *** AERMET - VERSION 16216 ***   ***
                          ***   11:41:47

                            PAGE 46
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

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

ALL   1ST HIGHEST VALUE IS   0.01387 AT (417601.27, 3747088.97,
57.00,   57.00,   0.00) DC
        2ND HIGHEST VALUE IS   0.00520 AT (417682.83, 3747428.40,
58.75,   58.75,   0.00) DC
        3RD HIGHEST VALUE IS   0.00441 AT (418045.16, 3747006.92,
57.00,   57.00,   0.00) DC
        4TH HIGHEST VALUE IS   0.00333 AT (416625.39, 3746916.54,
52.04,   52.04,   0.00) DC
        5TH HIGHEST VALUE IS   0.00275 AT (416599.41, 3747177.74,
53.00,   53.00,   0.00) DC
        6TH HIGHEST VALUE IS   0.00241 AT (417200.42, 3746576.48,
53.00,   53.00,   0.00) DC
        7TH HIGHEST VALUE IS   0.00192 AT (417756.65, 3747903.46,
61.00,   61.00,   0.00) DC
        8TH HIGHEST VALUE IS   0.00152 AT (417222.38, 3747968.41,
59.01,   59.01,   0.00) DC
        9TH HIGHEST VALUE IS   0.00134 AT (416891.53, 3747936.27,
57.13,   57.13,   0.00) DC
        10TH HIGHEST VALUE IS   0.00000 AT (0.00,   0.00,
0.00,   0.00,   0.00)

```
   *** RECEPTOR TYPES:  GC = GRIDCART
                        GP = GRIDPOLR
                        DC = DISCCART
                        DP = DISCPOLR
 ♠ *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\13157 OPS HRA\13157
 OPS HRA.ISC                 ***          06/03/20
  *** AERMET - VERSION  16216 ***    ***
                         ***          11:41:47


                                 PAGE  47
   *** MODELOPTs:    RegDFAULT  CONC   ELEV   URBAN   ADJ_U*

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

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

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

  A Total of       43848 Hours Were Processed

  A Total of        1588 Calm Hours Identified

  A Total of         697 Missing Hours Identified (  1.59 Percent)


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



      ********   WARNING MESSAGES   ********
  ME W186    2503       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
        0.50
  ME W187    2503       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

AVERAGE EMISSION FACTOR
ORANGE COUNTY 2022

Speed	LHD1	MHD	HHD
0	0.316847	0.09625	0.01752
5	0.02005	0.03819	0.04347
25	0.007822	0.021969	0.01771

Speed	Weighted Average Emissions
0	0.10594
5	0.03665
25	0.01554

Emission Rates - 2022 Emission Factors

Truck Emission Rates						
Source	Trucks Per Day	VMT [b] (miles/day)	Truck Emission Rate [c] (grams/mile)	Truck Emission Rate [c] (grams/idle-hour)	Daily Truck Emissions [d] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 1	83			0.1059	19.11	2.212E-04
On-Site Idling Building 2 (West Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 2 (East Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 3 (West Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 3 (East Side)	83			0.1059	2.19	2.529E-05
On-Site Idling Building 4	39			0.1059	1.03	1.196E-05
On-Site Travel Building 1	166	37.10	0.0367		4.38	5.073E-05
On-Site Travel Building 2 (West Side)	165	38.63	0.0367		4.56	5.283E-05
On-Site Travel Building 2 (East Side)	165	37.32	0.0367		1.37	1.583E-05
On-Site Travel Building 3 (West Side)	165	37.67	0.0367		1.38	1.598E-05
On-Site Travel Building 3 (East Side)	165	38.08	0.0367		1.40	1.615E-05
On-Site Travel Building 4	78	16.41	0.0367		0.60	6.962E-06
Off-Site Travel 10% on Acacia Av. [a]	90	21.22	0.0155		0.68	7.818E-06
Off-Site Travel 30% on Kimberly Av. [a]	271	130.06	0.0155		4.14	4.793E-05
Off-Site Travel 30% on Orangethorpe Av. [a]	271	129.49	0.0155		4.12	4.772E-05
Off-Site Travel 30% on N. State College Blvd. [a]	271	63.95	0.0155		2.04	2.357E-05
Off-Site Travel 55% south on N. State College Blvd. to SR-91	497	182.99	0.0155		5.83	6.743E-05
Off-Site Travel 30% east on Orangethorpe to SR-57	271	185.50	0.0155		5.91	6.836E-05
Off-Site Travel 10% on Orangethorpe to Raymond Av.	90	45.76	0.0155		1.46	1.686E-05
Off-Site Travel 5% on Raymond Av. to SR-91	45	15.67	0.0155		0.50	5.775E-06
Off-Site Travel 5% on Orangethorpe west of Raymond Av.	45	19.79	0.0155		0.63	7.294E-06
Off-Site Travel 5% on N. State College Blvd.	45	33.48	0.0155		1.07	1.234E-05

[a] Off-Site Truck Travel along the project frontage routes (Acacia, Kimberly, Orangethorpe, N. State College) is conservative since the percentage identified is presumed to travel the entire distance of the link.

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

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

[d] 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_cla	fuel	temperatu	relative_h	process	speed_tim	pollutant	emission_rate
2022	Annual	Orange (SC	HHDT	Dsl	60	70	RUNEX	5	PM10	0.047175
2022	Annual	Orange (SC	HHDT	Dsl	60	70	RUNEX	25	PM10	0.019216
2022	Annual	Orange (SC	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.050197
2022	Annual	Orange (SC	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.019584
2022	Annual	Orange (SC	MHDT	Dsl	60	70	RUNEX	5	PM10	0.048307
2022	Annual	Orange (SC	MHDT	Dsl	60	70	RUNEX	25	PM10	0.027788
2022	Annual	Orange (SC	HHDT	Dsl			IDLEX		PM10	0.019013
2022	Annual	Orange (SC	LHDT1	Dsl			IDLEX		PM10	0.793273
2022	Annual	Orange (SC	MHDT	Dsl			IDLEX		PM10	0.121748

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

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: Orange
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
Orange	2022	HHDT	Aggregate	Aggregate	Gasoline	9.612146
Orange	2022	HHDT	Aggregate	Aggregate	Diesel	10986.32
Orange	2022	HHDT	Aggregate	Aggregate	Natural Ga	925.558
Orange	2022	LHDT1	Aggregate	Aggregate	Gasoline	36147.87
Orange	2022	LHDT1	Aggregate	Aggregate	Diesel	24040.18
Orange	2022	MHDT	Aggregate	Aggregate	Gasoline	7524.247
Orange	2022	MHDT	Aggregate	Aggregate	Diesel	28402.73

HHDT% GAS/NG	0.078444
HHDT% DSL	0.921556
LHDT1% GAS	0.600582
LHDT1% DSL	0.399418
MHDT% GAS	0.209432
MHDT% DSL	0.790568

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**									
	(ug/m^3)	(mg/m^3)			URF $(ug/m^3)^{-1}$	CPF $(mg/kg/day)^{-1}$	DOSE $(mg/kg\text{-}day)$	RISK	REL (ug/m^3)	RfD $(mg/kg/day)$	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00241	2.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	8.3E-07	2.7E-08	5.0E+00	1.4E-03	4.8E-04							
TOTAL								2.7E-08			4.8E-04	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	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
			Fraction		URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	$(mg/kg\text{-}day)$		(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)
	0.00241	2.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.5E-06	6.4E-07	5.0E+00	1.4E-03	4.8E-04							
TOTAL								6.4E-07			4.8E-04	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	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
			Fraction		URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	$(mg/kg\text{-}day)$		(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)
	0.00241	2.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-06	6.0E-07	5.0E+00	1.4E-03	4.8E-04							
TOTAL								6.0E-07			4.8E-04	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	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
			Fraction		URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	$(mg/kg\text{-}day)$		(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)
	0.00241	2.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.0E-07	9.2E-08	5.0E+00	1.4E-03	4.8E-04							
TOTAL								9.2E-08			4.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.09

** 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)   **1.36**

	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	1.39E-02	1.39E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.2E-06	8.2E-07	5.0E+00	1.4E-03	2.8E-03							
	TOTAL								8.3E-07 0.83			2.8E-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　　　　　　　　　　Note:　　　　Exposure factors used to calculate contaminant intake

RESP	Respiratory System	exposure frequency (days/year)	250
CNS/PNS	Central/Peripheral Nervous System	exposure duration (years)	25
CV/BL	Cardiovascular/Blood System	inhalation rate (L/kg-day))	230
IMMUN	Immune System	inhalation absorption factor	1
KIDN	Kidney	averaging time (years)	70
GI/LV	Gastrointestinal System/Liver		
REPRO	Reproductive System (e.g. teratogenic and developmental effects)		
EYES	Eye irritation and/or other effects		