Appendix B

Health Risk Assessment

Health Risk Assessment
469 Piercy Road Project
City of San José, California

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LIST OF ABBREVIATED TERMS

A	absorption factor from inhalation
ASF	age sensitivity factor
AB	Assembly Bill
APN	Assessor's Parcel Number
APS	auxiliary power system
AT	averaging time
ATCM	Air Toxic Control Measure
BAAQMD	Bay Area Air Quality Management District
CARB	California Air Resources Board
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
CPF	cancer potency factor
C_{air}	air concentration from model
C_i	air concentration of substance
DBR	daily breathing rate
DOORS	Diesel Off-Road Reporting System
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
Dose-air	dose through inhalation
EMFAC	Emissions Factor Model
ED	exposure duration
EF	exposure frequency
°F	Fahrenheit
FCAA	Federal Clean Air Act
FAH	fraction of time spent at home
GVWR	gross vehicle weight rating
HAP	hazardous air pollutant
HQ	health quotient
HRA	health risk assessment
kg	kilograms
L	liter
MICR	Maximum Individual Cancer Risk
mg	milligrams
$\mu g/m^3$	micrograms per cubic meter
MSAT	Mobile Source Air Toxic
NAAQS	National Ambient Air Quality Standards
NED	National Elevation Dataset
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
O_3	ozone
OEHHA	Office Environmental Health Hazard Assessment
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PERP	Portable Equipment Registration Program
REL	Reference Exposure Level
REL_i	Reference Exposure Level of substance
$Risk_{inh\text{-}res}$	residential inhalation cancer risk
SB	Senate Bill
T-BACT	toxics best available control technology
TAC	Toxic Air Contaminant
U.S. EPA	United States Environmental Protection Agency
VMT	vehicle miles traveled

1 INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate potential health risks associated with Toxic Air Contaminants (TAC) including Diesel Particulate Matter (DPM) resulting from the implementation of the proposed 469 Piercy Road Project ("project" or "proposed project") in the City of San José. This HRA was prepared in accordance with the requirements of the Bay Area Air Quality Management District (BAAQMD) and guidance from the Office of Environmental Health Hazard Assessment (OEHHA) to determine if health risks are likely to occur from the project. Technical data is included as see Appendix A: Modeling Data.

1.1 Project Location

The proposed project is located on 469 Piercy Road in San José. Figure 1: Regional Vicinity and Figure 2: Site Vicinity, depict the project site in a regional and local context. The project site is located in an urban area with a mix of surrounding uses including commercial, office, residential and industrial uses. To the northeast of the project site is open space. The proposed project's existing land use designation is Industrial Park (IP) and existing zoning designation is Combined Industrial/Commercial (CIC) Zoning District. The project site is currently developed with an approximately 6,939 square foot (sf) single-family residence and a detached garage structure in the northeast corner of the site.

1.2 Project Description

The project intends to redevelop the property as a modern industrial facility. The proposed project would demolish the existing single-family residential structure and redevelop the property with a new approximately 134,605 (sf) warehouse building. The proposed single-story warehouse building would contain approximately 129,605 sf of warehouse space and 5,000 sf of office space refer to Figure 3: Project Site Plan.

The warehouse building would include 18 dock doors on its northern side. The proposed project includes surface parking with 86 automobile (passenger vehicle) spaces. Of the 86 automobile spaces provided, 35 would be electric vehicle (EV) capable. In addition, 10 bicycle racks and 4 motorcycle parking spaces would be provided.

Access to the project site would be provided by two driveways, a 32-foot wide driveway located on the northeast corner of the site off Piercy Road and a 26-foot wide driveway located on the southwest corner of the site off Hellyer Avenue. The Piercy Road driveway would provide access for trucks and trailers, in addition to passenger vehicles. The Hellyer Avenue driveway would provide primary access for passenger vehicles.

The proposed project would be constructed over the course of approximately 13 months. Demolition is anticipated to occur for one month prior to a 12-month construction phase. The construction of the project was modeled with the California Emissions Estimator Modeling (CalEEMod) and was modeled to occur from Fall 2022 to Fall 2023. This approach is conservative given that emissions factors decrease in future years due to regulatory and technological improvements and fleet turnover. The proposed project would require approximately 1,655 cubic yards (cy) of soil export during the grading phases of construction.

Source: USGS, 2021

Figure 1: Regional Map

469 Piercy Road Project

Not to scale

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Source: Nearmap, 2022

Figure 2 Project Vicinity Map

469 Piercy Road Project

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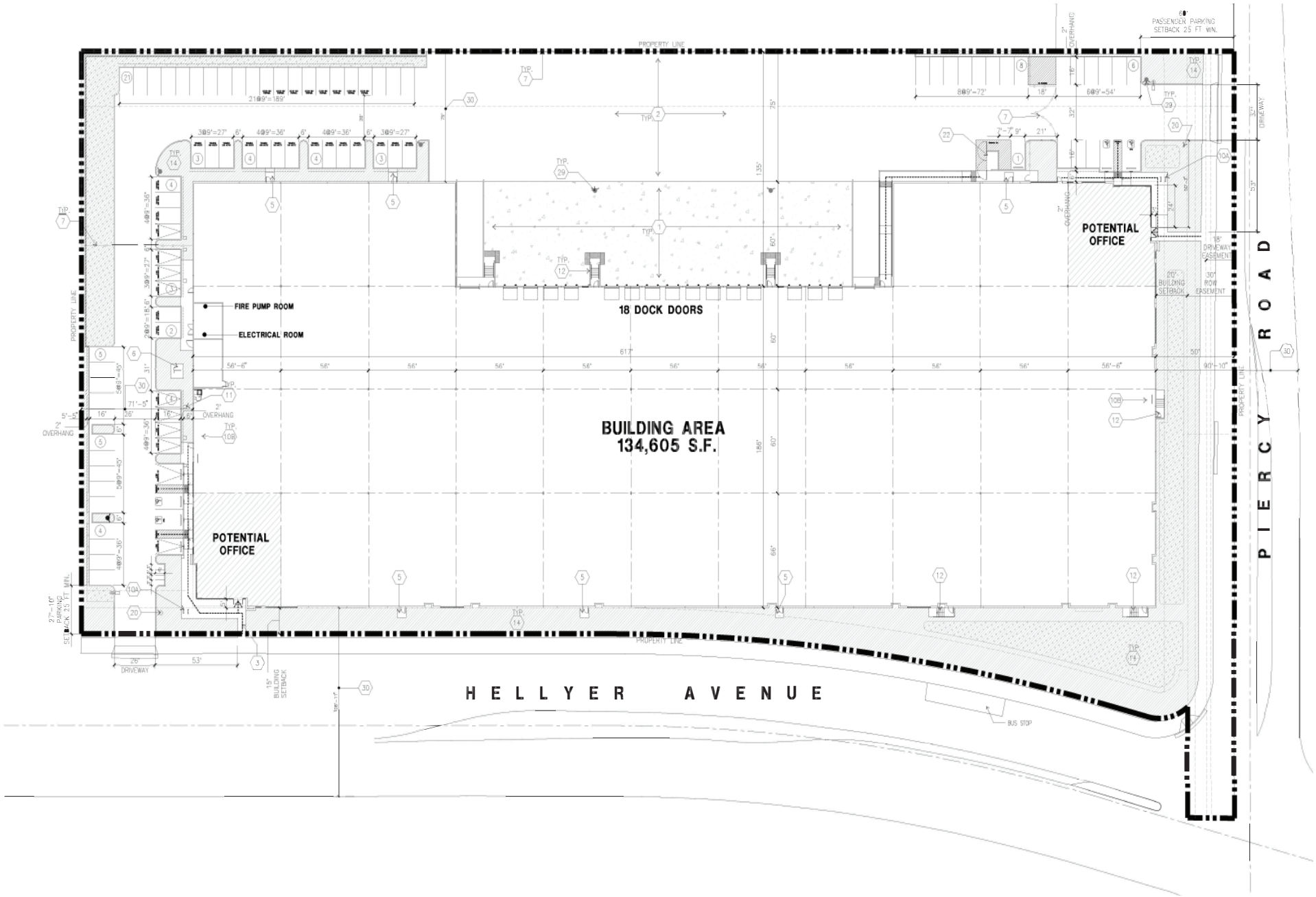

Source: Kier + Wright, 2022

Figure 3: Project Site Plan

469 Piercy Road Project

Not to scale

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2 ENVIRONMENTAL SETTING

2.1 Climate

The project is within the San Francisco Bay Area Air Basin (SFBAAB), which comprises all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, the southern portion of Sonoma, and the southwestern portion of Solano County. SFBAAB is characterized by complex terrain, consisting of coastal mountain ranges, inland valleys, and bays, which distort normal wind flow patterns. The Coast Range splits resulting in a western coast gap, Golden Gate, and an eastern coast gap, Carquinez Strait, which allow air to flow in and out of the SFBAAB and the Central Valley.

The climate is dominated by the strength and location of a semi-permanent, subtropical high-pressure cell. During the summer, the Pacific high-pressure cell is centered over the northeastern Pacific Ocean resulting in stable meteorological conditions and a steady northwesterly wind flow. Upwelling of cold ocean water from below to the surface because of the northwesterly flow produces a band of cold water off the California coast. The cool and moisture-laden air approaching the coast from the Pacific Ocean is further cooled by the presence of the cold-water band resulting in condensation and the presence of fog and stratus clouds along the Northern California coast.

In the winter, the Pacific high-pressure cell weakens and shifts southward resulting in wind flow offshore, the absence of upwelling, and the occurrence of storms. Weak inversions coupled with moderate winds result in a low air pollution potential.

2.2 Toxic Air Contaminants

Toxic Air Contaminants (TACs) are airborne substances capable of causing short-term (acute) and long-term (chronic or carcinogenic, i.e., cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances. They may be emitted from a variety of common sources including gasoline stations, automobiles, dry cleaners, industrial operations, and painting operations. The current California list of TACs includes approximately 200 compounds, including particulate emissions from diesel-fueled engines.

Hazardous Air Pollutants (HAP) is a term used by the Federal Clean Air Act (FCAA) that includes a variety of pollutants generated or emitted by industrial production activities. Identified as TACs under the California Clean Air Act (CCAA), have been singled out through ambient air quality data as being the most substantial health risk in California. Direct exposure to these pollutants has been shown to cause cancer, birth defects, damage to the brain and nervous system, and respiratory disorders. The California Air Resources Board (CARB) provides emission inventories for only the larger air basins.

Industrial facilities and mobile sources are significant sources of TACs. The electronics industry, including semiconductor manufacturing, has the potential to contaminate both air and water due to the highly toxic chlorinated solvents commonly used in semiconductor production processes. In addition to industrial sources, various common urban facilities also produce TAC emissions, such as gasoline stations (benzene), hospitals (ethylene oxide), and dry cleaners (perchloroethylene). Automobile exhaust also contains TACs such as benzene and 1,3-butadiene. Diesel particulate matter (DPM) was identified as a TAC by CARB in 1998. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of

hundreds of substances. BAAQMD research indicates that mobile-source emissions of DPM, benzene, and 1,3-butadiene represent a substantial portion of the ambient background risk from TACs in the SFBAAB.

TACs do not have ambient air quality standards because no safe levels of TACs can be determined. Instead, TAC impacts are evaluated by calculating the health risks associated with a given exposure. The requirements of the Air Toxic "Hot Spots" Information and Assessment Act (Assembly Bill [AB] 2588) apply to facilities that use, produce, or emit toxic chemicals. Facilities subject to the toxic emission inventory requirements of the act must prepare and submit toxic emission inventory plans and reports, and periodically update those reports.

Toxic contaminants often result from fugitive emissions during fuel storage and transfer activities, and from leaking valves and pipes. For example, the electronics industry, including semiconductor manufacturing, uses highly toxic chlorinated solvents in semiconductor production processes. Sources of air toxics go beyond industry, however. Automobile exhaust also contains toxic air pollutants such as benzene and 1,3-butadiene.

In California, on-road diesel-fueled engines contribute approximately 24 percent of the statewide total DPM emissions, with an additional 71 percent attributed to other mobile sources such as construction and mining equipment, agricultural equipment, and transport refrigeration units. Stationary sources contribute about 5 percent of total DPM. CARB has developed several plans and programs to reduce diesel emissions such as the Diesel Risk Reduction Plan (DRRP), the Statewide Portable Equipment Registration Program (PERP), and the Diesel Off-Road Reporting System (DOORS). The PERP and DOORS programs allow owners or operators of portable engines and certain other types of equipment to register their units to operate their equipment throughout California without having to obtain individual permits from local air districts.

As stated above, diesel exhaust and many individual substances contained in it (including arsenic, benzene, formaldehyde, and nickel) have the potential to contribute to mutations in cells that can lead to cancer. Long-term exposure to diesel exhaust particles poses the highest cancer risk of any TAC evaluated by OEHHA. CARB estimates that about 70 percent of the cancer risk that the average Californian faces from breathing toxic air pollutants stems from diesel exhaust particles.

Exposure to diesel exhaust can have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks.

Diesel engines are a major source of fine particulate pollution. The elderly and people with emphysema, asthma, and chronic heart and lung disease are especially sensitive to fine-particle pollution. Numerous studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Because children's lungs and respiratory systems are still developing, they are also more susceptible than healthy adults to fine particles. Exposure to fine particles is associated with increased frequency of childhood illnesses and can also reduce lung function in children. California has identified diesel exhaust particles as a carcinogen.

2.3 Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than the general population. Sensitive receptors in proximity to localized sources of toxics are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes.

The project site is located in an urban area in City of San José with open space to the northeast. The surrounding land uses are predominantly commercial and industrial, with some residences further to the west and south. The southeast boundary of the site is Piercy Road, and the southwest boundary of the site is Hellyer Avenue. Table 1: Sensitive Receptors, lists the distances and locations of nearby sensitive receptors from project site boundary to property line. Figure 4: Sensitive Receptor Locations shows the location of the receptors.

Table 1: Sensitive Receptors

Receptor Description	Distance and Direction from the Project Site
1. Single-family residence	150 feet southwest
2. Single-family residence	560 feet east
3. Family Community Church/Mar Thoma Church of Silicon Valley/RCCG – Jesus House Silicon Valley	150 feet east
Notes: Distances are measured from the project site boundary to the property line.	

Source: Nearmap, 2022

Figure 4: Sensitive Receptors

469 Piercy Road Project
Initial Study

Not to scale

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3 REGULATORY SETTING

3.1 Federal

Federal Clean Air Act

The FCAA was amended in 1990 to address the numerous air pollutants that are known to cause or may reasonably be anticipated to cause adverse effects to human health or adverse environmental effects. 188 specific pollutants and chemical groups were initially identified as HAPs, and the list has been modified over time. The FCAA Amendments included new regulatory programs to control acid deposition and for the issuance of stationary source operating permits.

In 2001, the United States Environmental Protection Agency (U.S. EPA) issued its first Mobile Source Air Toxics Rule, which identified 21 mobile source air toxic (MSAT) compounds as being HAPs that required regulation. A subset of six of these MSAT compounds were identified as having the greatest influence on health: benzene, 1,3-butadiene, formaldehyde, acrolein, acetaldehyde, and DPM. More recently, the U.S. EPA issued a second MSAT Rule in February 2007, which generally supported the findings in the first rule and provided additional recommendations of compounds having the greatest impact on health. The rule also identified several engine emission certification standards that must be implemented. Unlike the criteria pollutants, toxics do not have National Ambient Air Quality Standards (NAAQS) making evaluation of their impacts less uniform.

National Emissions Standards for Hazardous Air Pollutants (NESHAPs) were incorporated into a greatly expanded program for controlling toxic air pollutants. The provisions for attainment and maintenance of the NAAQS were substantially modified and expanded. Other revisions included provisions regarding stratospheric ozone protection, increased enforcement authority, and expanded research programs.

Section 112 of the FCAA Amendments governs the federal control program for HAPs. NESHAPs are issued to limit the release of specified HAPs from specific industrial sectors. These standards are technology-based, meaning that they represent the best available control technology an industrial sector could afford. The level of emissions controls required by NESHAPs are not based on health risk considerations because allowable releases and resulting concentrations have not been determined to be safe for the public. The FCAA does not establish air quality standards for HAPs that define legally acceptable concentrations of these pollutants in ambient air.

Federal Emissions Standards for On-Road Trucks

To reduce emissions from on-road, heavy-duty diesel trucks, the U.S. EPA established a series of increasingly strict emission standards for new engines, starting in 1988. The U.S. EPA promulgated the final and cleanest standards with the 2007 Heavy-Duty Highway Rule.[1] The PM emission standard of 0.01 gram per horsepower-hour (g/hp-hr) is required for new vehicles beginning with model year 2007. Also, the NO_X and nonmethane hydrocarbon (NMHC) standards of 0.20 g/hp-hr and 0.14 g/hp-hr, respectively,

[1] United States Environmental Protection Agency (U.S. EPA), *Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*, Final Rule. 40 Code of Federal Regulations, Parts 69, 80, and 86. January 18, 2001.

were phased in together between 2007 and 2010 on a percent of sales basis: 50 percent from 2007 to 2009 and 100 percent in 2010.

Emission Standards for Off-Road Diesel Engines

To reduce emissions from off-road diesel equipment, the U.S. EPA established a series of cleaner emission standards for new off-road diesel engines. Tier 1 standards were phased in from 1996 to 2000 (year of manufacture), depending on the engine horsepower category. Tier 2 standards were phased in from 2001 to 2006. Tier 3 standards were phased in from 2006 to 2008. Tier 4 standards, which generally require add-on emission control equipment to attain them, are being phased in from 2008 to 2015.

3.2 State of California

California Air Resources Board

CARB's statewide comprehensive air toxics program was established in 1983 with AB 1807 the Toxic Air Contaminant Identification and Control Act (Tanner Air Toxics Act of 1983). AB 1807 created California's program to reduce exposure to air toxics and sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an airborne toxics control measure (ATCM) for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology (T-BACT) to minimize emissions.
CARB also administers the State's mobile source emissions control program and oversees air quality programs established by State statute, such as AB 2588. Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, required to communicate the results to the public in the form of notices and public meetings. In September 1992, the AB 2588 was amended by Senate Bill (SB) 1731 which required facilities that pose a significant health risk to the community to reduce their risk through a risk management plan.

Diesel Risk Reduction Plan

The identification of DPM as a TAC in 1998 led CARB to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles (DRRP) in October 2000. The DRRP's goals include an 85 percent reduction in DPM by 2020 from the 2000 baseline[2]. CARB estimates that emissions of DPM in 2035 will be less than half those in 2010, further reducing statewide cancer risk and non-cancer health effects.[3] The DRRP includes regulations to establish cleaner new diesel engines, cleaner in-use diesel engines (retrofits), and cleaner diesel fuel.

[2] California Air Resources Board, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, October 2000.

[3] California Air Resources Board, *Overview: Diesel Exhaust & Health*, available at: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed on August 11, 2021.

Truck and Bus Regulation Reducing Emissions from Existing Diesel Vehicles

On December 12, 2008, CARB approved the Truck and Bus Regulation to significantly reduce PM and NO_X emissions from existing diesel vehicles operating in California. The regulation requires PM retrofits on all diesel trucks and buses that operate in California (i.e., existing vehicles are required to be upgraded to reduce emissions). Heavier trucks must be retrofitted with PM filters beginning January 1, 2012, and older trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses would need to have 2010 model year engines or equivalent.

The regulation applies to most privately-owned and federally-owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. Small fleets with three or fewer diesel trucks can delay compliance for heavier trucks and there are several extensions for low-mileage construction trucks, early PM filter retrofits, adding cleaner vehicles, and other situations. Privately and publicly owned school buses have different requirements.

Heavy-Duty Vehicle Idling Emission Reduction Program

The purpose of the CARB ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling is to reduce public exposure to diesel particulate matter and criteria pollutants by limiting the idling of diesel-fueled commercial vehicles. The driver of any vehicle subject to this ATCM is prohibited from idling the vehicle's primary diesel engine for greater than five minutes at any location and is prohibited from idling a diesel-fueled auxiliary power system (APS) for more than five minutes to power a heater, air conditioner, or any ancillary equipment on the vehicle if it has a sleeper berth and the truck is located within 100 feet of a restricted area (homes and schools).

CARB Final Regulation Order, Requirements to Reduce Idling Emissions from New and In-Use Trucks, beginning in 2008, would require that new 2008 and subsequent model-year heavy-duty diesel engines be equipped with an engine shutdown system that automatically shuts down the engine after 300 seconds of continuous idling operation once the vehicle is stopped, the transmission is set to "neutral" or "park", and the parking brake is engaged.

Section 2485 and Section 2449 of Title 13 of the California Code of Regulations limits diesel-fueled motor vehicle idling to no more than five minutes. Section 2485 limits idling for diesel-fueled commercial motor vehicles with gross vehicle weight ratings of greater than 10,000 pounds that are or must be licensed to operate on publicly maintained highways and streets within California. Section 2449 limits idling for off-road diesel-fueled fleets.

CalEnviroScreen

OEHHA has developed CalEnviroScreen 4.0, which is a mapping tool that helps identify California communities that are most affected by many sources of pollution, and where people are often especially vulnerable to pollution's effects. CalEnviroScreen uses environmental, health, and socioeconomic information to produce scores for every census tract in the State. The scores are mapped so that different communities can be compared. An area with a high score is one that experiences a much higher pollution burden than areas with low scores.

According to CalEnviroScreen, the project site is located within Census Tract 6085512001, which is within the 17th percentile with a pollution burden of 38.[4] It should be noted that the CalEnviroScreen scores are not an expression of health risk, and do not provide quantitative information on increases in cumulative impacts for specific sites or projects. Further, as a comparative screening tool, the results do not provide a basis for determining when differences between scores are significant in relation to public health or the environment.

CARB Advanced Clean Truck Regulation

CARB adopted the Advanced Clean Truck Regulation in June 2020 requiring truck manufacturers to transition from diesel trucks and vans to electric zero-emission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. This rule directly addresses disproportionate risks and health and pollution burdens and puts California on the path for an all zero-emission short-haul drayage fleet in ports and railyards by 2035, and zero-emission "last-mile" delivery trucks and vans by 2040. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8. The regulation has two components including a manufacturer sales requirement, and a reporting requirement:

- Zero-Emission Truck Sales: Manufacturers who certify Class 2b through 8 chassis or complete vehicles with combustion engines are required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales need to be 55 percent of Class 2b – 3 truck sales, 75 percent of Class 4 – 8 straight truck sales, and 40 percent of truck tractor sales.
- Company and Fleet Reporting: Large employers including retailers, manufacturers, brokers and others would be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, would be required to report about their existing fleet operations. This information would help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

Executive Order N-79-20

Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

[4] California Office of Environmental Health Hazard Assessment, *CalEnviroScreen 4.0 Results (October 2021 Update)*, https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40, accessed April 12, 2022.

3.3 Regional

Bay Area Air Quality Management District

The BAAQMD is the regional agency tasked with managing air quality in the region and has regulated TACs since the 1980s. The CCAA provides the BAAQMD with the authority to manage transportation activities at indirect sources and regulate stationary source emissions. Indirect sources of pollution are generated when minor sources collectively emit a substantial amount of pollution. An example of this would be the motor vehicles at an intersection, a mall, and on highways. As a State agency, CARB regulates motor vehicles and fuels for their emissions. The BAAQMD has published California Environmental Quality Act (CEQA) Air Quality Guidelines that are used in this assessment to evaluate air quality impacts of projects. Under BAAQMD Regulation 2-1 (General Permit Requirements), Regulation 2-2 (New Source Review), and Regulation 2-5 (New Source Review), all nonexempt sources that possess the potential to emit TACs are required to obtain permits from BAAQMD. Permits may be granted to these operations if they are constructed and operated in accordance with applicable regulations, including new source review standards and air toxics control measures. The BAAQMD limits emissions and public exposure to TACs through a number of programs. Section 301 of Regulation 2, Rule 2 requires Best Available Control Technology (BACT) is triggered for any new or modified source with the potential to emit specific levels of pollutants. The BAAQMD prioritizes TAC-emitting stationary sources for regulation based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors.

Community Air Risk Evaluation Program

The BAAQMD's Community Air Risk Evaluation (CARE) program estimates and reports both local and regional impacts of TACs in the Bay Area. The objective of the CARE Program is to reduce health impacts linked to local air quality. The goals of the CARE Program are to: (1) identify areas where air pollution contributes most to health impacts and where populations are most vulnerable to air pollution; (2) apply sound scientific methods and strategies to reduce health impacts in these areas; and (3) engage community groups and other agencies to develop additional actions to reduce local health impacts. Information from the CARE program is used by the BAAQMD to design and focus effective mitigation measures in areas with highest impacts.

4 SIGNIFICANCE CRITERIA AND METHODOLOGY

4.1 Health Risk Analysis Thresholds

Project health risks are determined by examining the types and levels of air toxics generated and the associated impacts on factors that affect air quality. The BAAQMD publishes the California Environmental Quality Act (CEQA) Air Quality Guidelines, which were most recently updated in May 2017. The BAAQMD thresholds for air toxic emissions that are used for this project are shown below:

Individual Projects:

- **Excess Cancer Risk:** Emit contaminants that exceed the maximum individual cancer risk of 10 in one million.
- **Non-Cancer Risk:** Emit contaminants that exceed the maximum hazard quotient of 1.0.
- **Ambient $PM_{2.5}$ Concentration:** Incremental increase in average annual $PM_{2.5}$ concentration of greater than 0.3 $\mu g/m^3$

Cumulative Thresholds:

- **Excess Cancer Risk:** Emit contaminants that would contribute to cumulative emissions, resulting in an exceedance of the maximum individual cancer risk of 100 in one million.
- **Non-Cancer Risk:** Emit contaminants that that would contribute to cumulative emissions, resulting in an exceedance of the maximum hazard quotient of 10.0.
- **Ambient $PM_{2.5}$ Concentration:** Incremental increase in average cumulative annual $PM_{2.5}$ concentration of greater than 0.8 $\mu g/m^3$

Cancer risk is expressed in terms of expected incremental incidence per million population. The BAAQMD has established an individual project incidence rate of 10 persons per million as the maximum acceptable incremental cancer risk. This threshold serves to determine if a given project has a potentially significant development-specific impact. The 10 in one million standard is a health-protective significance threshold. A risk level of 10 in one million implies a likelihood that up to 10 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. This risk would be an excess cancer that is in addition to any cancer risk borne by a person not exposed to these air toxics. To put this risk in perspective, the risk of dying from accidental drowning is 1,000 in one million which is 100 times more than the BAAQMD's threshold of 10 in one million.

The BAAQMD has also established non-carcinogenic risk parameters for use in HRAs. Noncarcinogenic risks are quantified by calculating a hazard index (HI), 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 HI less than 1.0 means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less than significant.

The 2017 BAAQMD CEQA Air Quality Guidelines recommend assessing impacts within 1,000 feet of the project. The 1,000-foot radius is consistent with findings in CARB's Air Quality and Land Use Handbook

(2005) and the California Health & Safety Code §42301.6 (Notice for Possible Source Near School). The CARB Air Quality and Land Use Handbook found that TAC concentrations are reduced substantially at a distance 1,000 feet downwind from sources such as freeways or large distribution centers.

4.2 Methodology

This HRA evaluates potential health risks associated with the emission of diesel particulate matter resulting from the implementation of the proposed project. Construction equipment and associated heavy-duty truck traffic generate diesel exhaust, which is a known TAC. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. Operational activities would also include the use of heavy-duty diesel trucks.

Construction Risk

Construction would generate DPM emissions from the use of off-road diesel equipment required for grading and excavation, paving, and other construction activities. For construction activity, DPM is the primary toxic air contaminant of concern. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the site potentially poses a health risk to nearby sensitive receptors. The closest sensitive receptors to the project site is the residential use (approximately 150 feet away).

Health-related risks associated with diesel-exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. The use of diesel-powered construction equipment would be episodic and would occur throughout the project site. Construction activities would limit idling to no more than five minutes, which would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Furthermore, even during the most intense year of construction, emissions of DPM would be generated from different locations on the project site rather than in a single location because different types of construction activities (e.g., site preparation and building construction) would not occur at the same place at the same time. Construction emissions rates for $PM_{2.5}$ (used as a proxy for DPM) were calculated from the CalEEMod construction emissions modeling conducted for the project Air Quality Assessment.

Operational Sources

The truck traffic from the project could also result in pollutant concentrations at existing sensitive receptors. Average daily trips from truck traffic to the project were obtained from the project Transportation Analysis (March 2023). Total daily trip and truck trip generation is based on Institute of Transportation Engineers (ITE) Warehouse (ITE code 150) rate. This analysis evaluates 75 daily truck trips related to the warehouse use. Emission rates for vehicle running and idling for $PM_{2.5}$ (DPM) was calculated using trip data and CARB 2021 EMission FACtor model version 1.0.1 (EMFAC)[5] data for Santa Clara County; refer to Appendix A. The emissions rate was calculated using 2024 emissions factors since project operations are anticipated to begin in 2024. This approach is conservative as it assumes no cleaner technology in future years.

[5] California Air Resources Board, *EMFAC 2021 Web Database,* https://arb.ca.gov/emfac/emissions-inventory, accessed March 2022.

Dispersion Modeling

The air dispersion modeling for the operational risk assessment was performed using U.S. EPA AERMOD dispersion model. AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources (not a factor in this case). AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. AERMOD regulatory defaults, the "Urban" modeling option for the County, and "Elevated" terrain were used for this analysis.

The emission sources in the model are line volume sources (comprised of smaller adjacent volume sources) for the loading dock idling area, on-site truck circulation, and off-site routes. The truck loading areas for the site are located on the eastern side of the building. Heavy duty vehicle emissions were assigned a release height of 12 feet (3.66 meters), a plume height of 20.4 feet (6.22 meters). A release height of 12 feet is the average stack height for trucks and the plume height is based on U.S. EPA guidance for vehicle volume sources.

AERMOD was run to obtain the peak 1-hour, 24-hour, and period (annual average) concentration in micrograms per cubic meter ($\mu g/m^3$) at the nearby sensitive receptors. The period concentrations were used to calculate the Maximum Individual Cancer Risk (MICR), the maximum chronic HI, and the hourly concentrations were used to calculate the health impact from substances with acute non-cancer health effects. A receptor grid was placed over the project site to cover the zone of impact. Due to the size of the project site, nearby sensitive receptors were modeled with a 35-meter (115-foot) grid spacing. In addition, National Elevation Dataset (NED) terrain data was imported into AERMOD for the project. Surface and upper air meteorological data is provided by CARB. Surface and upper air meteorological data from the Reid-Hillview Airport Monitoring Station was selected as being the most representative for meteorology based on proximity to the project site. The modeling and analysis was prepared in accordance with the BAAQMD Modeling Guidance for AERMOD[6].

Project construction would occur for over a period of approximately 13 months. However, the health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 3-year exposure scenario as recommended by the BAAQMD, and thus is conservative.[7] The cancer risk calculations were based on applying age sensitivity weighting factors for each emissions period modeled. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the OEHHA Guidance Manual. Only the risk associated with the worst-case location of the proposed project was assessed.

Maximum (worst case) $PM_{2.5}$ exhaust construction emissions over the entire construction period were used in AERMOD to approximate construction DPM emissions. Risk levels were calculated according to the California Office of Environmental Health Hazard Assessment (OEHHA) guidance document, *Air Toxics Hot Spots Program Risk Assessment Guidelines* (February 2015).

[6] Bay Area Air Quality Management District, *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*, December 2016.

[7] The BAAQMD recommends that the cancer risk be evaluated assuming that the average daily dose for short-term exposure lasts a minimum of three years for projects lasting three years or less (BAAQMD, *BAAQMD Air Toxics NSR Program Health Risk Assessment Guidelines*, December 2016).

Note that the concentration estimate developed using this methodology is conservative and is not a specific prediction of the actual concentrations that would occur at the project site at any given point in time. Actual 1-hour and annual average concentrations are dependent on many variables, including specific distances during time periods of adverse meteorology. A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on these worst-case exposure duration scenarios. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the OEHHA Guidance Manual. Only the risk associated with the worst-case location of the project was assessed.

Risk and Hazard Assessment

Cancer Risk. Based on the OEHHA methodology, residential inhalation cancer risk from annual average DPM concentrations are calculated by multiplying the daily inhalation dose, cancer potency factor, age sensitivity factor (ASF), frequency of time spent at home, and exposure duration divided by averaging time, yielding the excess cancer risk. These factors are discussed in more detail below. It is important to note that exposure duration is based on continual heavy truck operations along nearby roadways. Exposure through inhalation (Dose-air) is a function of breathing rate, exposure frequency, and concentration of substance in the air. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = C_{air} * (BR/BW) * A * EF * 10^{-6}$$

Where:

Dose-air	=	dose through inhalation (mg/kg/day)
C_{air}	=	air concentration ($\mu g/m^3$) from air dispersion model
(BR/BW)	=	daily breathing rate normalized to body weight (L/kg bodyweight-day)
A	=	inhalation absorption factor (unitless)
EF	=	exposure frequency (approximately 350 days per year for residential)
10^{-6}	=	conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to consider the increased sensitivity to carcinogens during early-life exposure. In the absence of chemical-specific data, OEHHA recommends a default ASF presented in Table 2: Default Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates. Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home. OEHHA recommends the FAH values presented in Table 2.

Table 2: Default Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates

Age	Default Age Sensitivity Factor[1] (ASF)	Fraction of Time at Home (FAH)	Daily Breathing Rate (L/kg BW-day[2])
Resident			
Third trimester	10	85%	361
0 to 2 years	10	85%	1,090
Ages 2 through 15 years	3	72%	745
Ages 16 and greater	1	73%	335
Worker (ages 16 and greater)	1	N/A	230

1. Accounts for potential increased sensitivity to carcinogens during childhood.
2. 95th percentile daily breathing rate normalized to body weight (L/kg body weight-day).

Source: California Office of Environmental Health Hazard Assessment, *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments*, February 2015 and Bay Area Air Quality Management District, *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*, December 2016.

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$$Risk_{inh\text{-}res} = (Dose_{air} * CPF * ASF * (ED/AT) * FAH)$$

Where:

$Risk_{inh\text{-}res}$ = residential inhalation cancer risk (potential chances per million)

$Dose_{air}$ = daily dose through inhalation (mg/kg-day)

CPF = inhalation cancer potency factor (mg/kg-day^{-1})

ASF = age sensitivity factor for a specified age group (unitless)

ED = exposure duration (in years) for a specified age group

AT = averaging time of lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Chronic Non-Cancer Hazard. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer risk:

$$\text{Hazard Quotient} = C_i/REL_i$$

Where:

Ci = Concentration in the air of substance i (annual average concentration in µg/m^3)

RELi = Chronic noncancer Reference Exposure Level for substance i (µg/m^3)

Acute Non-Cancer Hazard. The potential for acute non-cancer hazards is evaluated by comparing the maximum short-term exposure level to an acute REL. RELs are designed to protect sensitive individuals within the population. The calculation of acute non-cancer impacts is similar to the procedure for chronic non-cancer impacts. The equation is as follows:

$$\text{Acute HQ} = \text{Maximum Hourly Air Concentration } (\mu g/m^3) / \text{Acute REL } (\mu g/m^3)$$

Health Risk Computation

A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 30-year exposure scenario for residents and a 25-year exposure for workers using CARB's Risk Assessment Stand Alone Tool (RAST). Health risk were analyzed at the point of maximum impact and are a conservative estimate. The pollutant concentrations are then used to estimate the long-term cancer health risk to an individual as well as the non-cancer chronic health index.

The off-site impacts would occur from the diesel trucks accessing the proposed project. The cancer and chronic health risks are based on the annual average concentration of $PM_{2.5}$. As DPM does not have short-term toxicity values, acute risks were conservatively evaluated using hourly $PM_{2.5}$ concentrations and the REL for acrolein. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA *Human Health Evaluation Manual* (1991) and the OEHHA Guidance Manual (2015).

5 POTENTIAL HEALTH RISK IMPACTS

CARB identified DPM as a TAC in 1998. Mobile sources (including trucks, buses, automobiles, trains, ships, and farm equipment) are by far the largest source of diesel emissions. The exhaust from diesel engines includes hundreds of different gaseous and particulate components, many of which are toxic. Diesel exhaust is composed of two phases, either gas or particulate – both contribute to the risk. The gas phase is composed of many of the urban TACs, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and polycyclic aromatic hydrocarbons. The particulate phase has many different types that can be classified by size or composition. The sizes of diesel particulates of greatest health concern are fine and ultrafine particles. These particles may be composed of elemental carbon with adsorbed compounds such as organics, sulfates, nitrates, metals, and other trace elements. Diesel exhaust is emitted from a broad range of on- and off-road diesel engines. As the project includes construction near sensitive receptors and proposes heavy-duty trucks near within the BAAQMD 1,000-foot zone of influence an analysis of health risk impacts from TACs was performed for both construction and operations.

5.1 Construction Health Risk Analysis

Construction equipment and associated heavy-duty truck traffic generate diesel exhaust, which is a known toxic air contaminant (TAC). Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. The closest sensitive receptors to the project site are the residences (approximately 150 feet southwest). BAAQMD provides guidance for evaluating impacts from TACs in its CEQA Air Quality Guidelines document. As noted therein, an incremental cancer risk of greater than 10 cases per million at the Maximally Exposed Individual (MEI) will result in a significant impact. The BAAQMD considers exposure to annual $PM_{2.5}$ concentrations that exceed 0.3 $\mu g/m^3$ from a single source to be significant. The BAAQMD significance threshold for non-cancer hazards is 1.0.

Project construction would generate DPM emissions from the use of off-road diesel equipment required for grading and excavation, paving, and other construction activities. For construction activity, DPM is the primary toxic air contaminant of concern. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors.

The amount to which the receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards). On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. However, haul routes on Hellyer Road and Silver Creek Valley Boulevard were modeled. Construction is temporary and would be transient throughout the site (i.e. move from location to location) and would not generate emissions in a fixed location for extended periods of time.

Construction is subject to and would comply with California regulations (e.g., California Code of Regulations, Title 13, Division 3, Article 1, Chapter 10, Sections 2485 and 2449), which reduce DPM and criteria pollutant emissions from in-use off-road diesel-fueled vehicles and limit the idling of heavy-duty construction equipment to no more than five minutes. These regulations would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Given the temporary and intermittent nature of construction activities likely to occur within specific locations in the project site

(i.e., construction is not likely to occur in any one location for an extended time), the dose of DPM of any one receptor is exposed to would be limited.

$PM_{2.5}$ construction emissions rates in grams per second were calculated from the total annual on-site exhaust emissions reported in CalEEMod (0.11 tons) total during construction. For off-site exhaust emissions the total was 0.002 tons. Annual emissions were converted to grams per second and these emissions rates were input into AERMOD. Although project construction would occur for over a period of one year, the health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 3-year exposure scenario as recommended by the BAAQMD, and thus is conservative.[8]

As noted above, maximum (worst case) $PM_{2.5}$ exhaust construction emissions over the entire construction period were used in AERMOD to approximate construction DPM emissions. Risk levels were calculated with the CARB Hotspots Analysis and Reporting Program (HARP) Risk Assessment Standalone Tool (RAST) based on the California Office of Environmental Health Hazard Assessment (OEHHA) guidance document, Air Toxics Hot Spots Program Risk Assessment Guidelines (February 2015) and BAAQMD Health Risk Assessment Guidelines (December 2016). Results of this assessment are summarized in Table 3: Construction Risk.

Table 3: Construction Risk

Exposure Scenario	Pollutant Concentration ($\mu g/m^3$)	Cancer Risk (per Million) [1]	Chronic Hazard	Acute Hazard
Worker Exposure	0.047	2.88	0.010	0.164
Residential Exposure	0.017	4.05	0.003	0.103
BAAQMD Threshold	*0.3*	*10*	*1.0*	*1.0*
Threshold Exceeded?	**No**	**No**	**No**	**No**
1. Although construction would only occur for 13 months, the exposure duration was calculated to last for 3 years per the *BAAQMD Health Risk Assessment Modeling Protocol* (December 2020). Worker exposure would be 8 hours per day for 245 days per year and a residential exposure would be 24 hours per day for 350 days per year. The residential exposure scenario assumes a third trimester start age, 95th percentile breathing rates, and age sensitivity factors. The worker exposure is for the nearby church users.				
Refer to Appendix A: Modeling Data.				

Maximum concentration of $PM_{2.5}$ during construction would be 0.05 $\mu g/m^3$, which would not exceed the BAAQMD threshold of 0.3 $\mu g/m^3$. The highest calculated carcinogenic risk from project construction would be 4.05 per million for the maximally exposed individual resident (MEIR) located east of the project site, which would not exceed the BAAQMD threshold of 10 in one million. The maximally exposed individual (MEI) during construction (i.e., the closest receptor exposed to the highest concentrations) to the project site is the residence (approximately 150 feet away). Non-cancer hazards for DPM would be below BAAQMD threshold, with a chronic hazard index computed at 0.003 and an acute hazard index of 0.103. Although pollutant concentrations are higher directly south of the project site, worker exposure is assumed to occur 8 hours per day for 245 days per year, while residential exposure is assumed to occur 24 hours per day for 350 days per year[9]. The worker exposure scenario was conservatively used for the

[8] The BAAQMD recommends that the cancer risk be evaluated assuming that the average daily dose for short-term exposure lasts a minimum of three years for projects lasting three years or less (BAAQMD, *BAAQMD Air Toxics NSR Program Health Risk Assessment Guidelines*, December 2016).

[9] Bay Area Air Quality Management District, *BAAQMD Health Risk Assessment Modeling Protocol*, December 2020.

church receptors. As described above, construction risk levels would be below the BAAQMD's thresholds and impacts would be less than significant.

Level of Significance: Less than significant.

5.2 Operational Health Risk Analysis

Vehicle DPM emissions were estimated using emission factors for course particulate matter less than 2.5 microns in diameter ($PM_{2.5}$) generated with the EMFAC developed by CARB. EMFAC is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources. EMFAC, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day. The model includes the emissions benefits of the truck and bus rule and the previously adopted rules for other on-road diesel equipment.

For this project, annual average $PM_{2.5}$ emission factors were generated by running EMFAC for vehicles in the BAAQMD within the Santa Clara County. EMFAC 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 vehicle speed, temperature, and relative humidity. The model was run for heavy-duty diesel vehicles traveling along Hellyer Avenue and Silver Creek Valley Road, as well as circulating the project site and idling at proposed loading areas. The model also included one backup generator.

Based on the AERMOD outputs, the highest expected annual average diesel $PM_{2.5}$ emission concentrations from diesel truck traffic and the backup generator near sensitive receptors would be 0.001 $\mu g/m^3$. The calculations conservatively assume no cleaner technology with lower emissions in future years. Table 4 shows the highest calculated carcinogenic risk resulting from the project is 0.07 in one million for the residences and 0.03 for the church users, which is below the BAAQMD threshold of 10 per million. Acute and chronic hazards also would be below the BAAQMD significance threshold of 1.0.

Table 4: Operational Risk

Exposure Scenario	Pollutant Concentration ($\mu g/m^3$)	Maximum Cancer Risk (per Million)	Chronic Noncancer Hazard	Acute Noncancer Hazard
Worker Exposure	0.001	0.03	0.0001	0.0034
Residential Exposure	0.0002	0.07	0.00003	0.0016
Threshold	*NA*	*10 in one million*	*1.0*	*1.0*
Exceed Threshold?	**No**	**No**	**No**	**No**
1. The maximum cancer would be experienced at the residences located south of the project site based on worst-case exposure durations for the project, 95th percentile breathing rates, age sensitivity factors, third trimester start age, and 30-year exposure duration. The worker and church exposure is based on 95th percentile breathing rates and 25-year exposure duration.				
Refer to Appendix A: Modeling Data.				

The risk calculated for the church represents the exposure levels outdoors for 8 hours a day. However, a typical person attending the church would not spend the majority of time at the same location near the project site for an 8-hour day. Therefore, the calculated risk is not necessarily representative of actual exposure at the project site and tend to overestimate exposure. The maximally exposed individual resident (MEIR) during operation is the sensitive receptor located 150 feet to the southeast (see sensitive receptors in Figure 4).

Cumulative Health Impacts

Cumulative impacts are defined as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. Worst-case $PM_{2.5}$ concentrations and chronic hazard levels for the project would be well below the BAAQMD's thresholds. CEQA Guidelines 15065(a)(3) states "… 'Cumulatively considerable' means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects."

In addition to mobile sources, BAAQMD's Stationary Source GIS Maps were reviewed to identify stationary sources within a 1,000-foot-radius of the project site. BAAQMD's Stationary Source data indicated that there are three existing permitted stationary sources within 1,000 feet of the project site.

Table 5 Cumulative Operational Health Risk

Emissions Sources	$PM_{2.5}$ (µg/m^3)	Cancer Risk (per million	Hazard
Project Mobile Emissions	0.0002	0.07	0.00003
Major Street Sources[1]	0.002	0.09	0.008
Highway Sources[1]	0.21	15.08	0.84
Railway Sources[1]	0.001	0.77	0.004
Stationary Sources			
Name of Facility			
ColFin 2019-2D Industrial Owner LLC	0.001	0.63	0.001
Suez Water Technologies and Solutions, Inc	0.00	0.08	0.00
Commonwealth Central Credit Union	0.00	0.006	0.00
Cumulative Health Risk Values	**0.21**	**16.73**	**0.85**
BAAQMD Cumulative Threshold	*0.8*	*100*	*10*
Threshold Exceeded?	**No**	**No**	**No**

1. BAAQMD GIS data.
Source: BAAQMD's Stationary Source Data and GIS Mapping Tools, 2022.

As described above in Table 5, cumulative impacts related to cancer risk and hazard would be less than cumulatively considerable and within acceptable limits. The primary contributor to the cumulative $PM_{2.5}$ concentrations are the existing highway sources near the project area (high $PM_{2.5}$ of 0.21 µg/m^3). The highway sources represent approximately 99.99 percent of the total concentrations and are completely unrelated to the project. The project represents less than 0.1 percent of total cumulative $PM_{2.5}$ in the project area. Therefore, the project would not be cumulatively considerable and cumulative impacts would be less than significant.

The incremental effect of the individual project is less than significant.[10] Therefore, the project's cumulative impacts would be less than significant.

Mitigation Measures: None required.

Level of Significance: Less than significant and less than cumulatively considerable impacts.

[10] CEQA case law has held that any additional emissions in an impacted area does not necessarily create a significant cumulative impact, finding that "the 'one [additional] molecule rule' is not the law" (Communities for a Better Environment v. California Resources Agency (2002) 103 Cal. App. 4th 98, 120).

6 REFERENCES

1. Bay Area Air Quality Management District, *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*, December 2016.
2. California Air Pollution Control Officers Association, *Health Risk Assessment for Proposed Land Use Projects*, July 2009.
3. California Air Resources Board Research Division and University of California, Berkeley, *Activity Patterns of California Residents,* May 1991.
4. California Air Resources Board, *EMFAC 2021 Web Database*, Available at: https://arb.ca.gov/emfac/emissions-inventory, February 2022.
5. California Air Resources Board, *Overview: Diesel Exhaust & Health*, available at: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed February 2022.
6. California Air Resources Board, *HARP AERMOD Meteorological Files*, Available at: https://ww2.arb.ca.gov/resources/documents/harp-aermod-meteorological-files, accessed February 2022.
7. California Air Resources Board, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, October 2000.
8. California Office of Environmental Health Hazard Assessment, *Air Toxics Hot Spots Program Risk Assessment Guidelines*, August 2003.
9. California Office of Environmental Health Hazard Assessment, *Air Toxics Hot Spots Program Risk Assessment Guidance Manual for Preparation of Health Risk Assessments*, February 2015.
10. California Office of Environmental Health Hazard Assessment, *CalEnviroScreen 4.0*, https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-30, accessed April 2022.
11. City of San José, *Envision San José* 2040 *General Plan FEIR,* 2011.
12. Kimley-Horn & Associates, *469 Piercy Road Development Transportation Analysis*, March 2023.
13. Lakes Environmental, *AERMOD View Gaussian Plume Air Dispersion Model*, Version 10.2.1

Appendix A

Modeling Data

Construction - Unmitigated

$PM_{2.5}$ Exhaust Onsite

Year	Tons/Year	g/s	Weighted Average On-Site Rate
2022	4.42E-02	0.001271	0.001744169
2023	6.61E-02	0.001903	

	2022	2023	Total
Const Duration (Days):	87	260	347

	Trips		Miles		Weighted
	Vendor	Hauling	Vendor	Hauling	Trip length
2022	0	208	7.3	20	20.00
2023	38	0	7.3	20	7.30

$PM_{2.5}$ Exhaust Off-Site

	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2022	1.90E-04	0.000005	2.73283E-07	3.82E-06
2023	1.27E-03	0.000037	5.00461E-06	

Construction Route	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)
Hellyer Ave	747.4	0.46	3.82E-06	1.77E-06
Silver Creek	851.1	0.53	3.82E-06	2.02E-06

On-Site Construction Emissions

Year	Phase	tons/yr Exhaust $PM_{2.5}$
2022	Demolition	0.0127
2022	Site Prep	1.63E-02
2022	Grading	9.95E-03
2022	Paving	5.22E-03
	Total	4.42E-02
2023	Building	0.0629
2023	Arch Coating	2.30E-03
2023	Paving	9.40E-04
	Total	0.06614

Off-Site Construction Emissions

Year	Phase	tons/yr Exhaust $PM_{2.5}$
2022	Demolition	1.00E-05
2022	Site Prep	1.00E-05
2022	Grading	1.60E-04
2022	Paving	1.00E-05
	Total	1.90E-04
2023	Building	1.25E-03
2023	Arch Coating	2.00E-05
2023	Paving	0.00E+00
	Total	1.27E-03

Construction

	µg/m³		
	1 hr	24 hr	Period
Project (worker)	4.10E-01	6.45E-02	4.66E-02
Project (resident)	2.58E-01	3.68E-02	1.69E-02

HARP 2 Risk Summary (worker)

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	4.66E-02	2.88E-06	2.88	9.32E-03	4.10E-01	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	4.10E-01	1.64E-01

HARP 2 Risk Summary (resident)

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	1.69E-02	4.05E-06	4.05	3.38E-03	2.58E-01	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	2.58E-01	1.03E-01

Operations

	µg/m³		
	1 hr	24 hr	Period
Project (Worker)	0.00839	0.00287	0.00056
Project (Resident)	3.94E-03	6.70E-04	1.70E-04

HARP 2 Risk Summary (worker)

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	5.60E-04	3.47E-08	0.03	1.12E-04	8.39E-03	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	8.39E-03	3.36E-03

HARP 2 Risk Summary (resident)

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	1.70E-04	7.15E-08	0.07	3.40E-05	3.94E-03	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	3.94E-03	1.58E-03

Operational Emissions Rates Calculations

Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)
Hellyer Avenue	45	38	0.00039	499.1	0.31	4.50E-03	5.21E-08
Silver Creek Valley Road	45	38	0.00039	851.1	0.53	7.67E-03	8.88E-08
Piercy Road	30	38	0.00054	150	0.09	1.89E-03	2.19E-08
On-Site Travel	15	38	0.00065	291.2	0.18	4.39E-03	5.09E-08

Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Emission Rate (g/sec)
Loading Area	Idle	38	1.91271E-05	0.25	1.82E-04	2.10E-09

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: Sub-Area
Region: Santa Clara (SF)
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RI

	Speed (mph)		
Idle (g/trip)	15	30	45
1.9127E-05	0.000647566	0.000540746	0.000386692

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	Trips	PM2.5_IDLEX	
Santa Clara	2023	HHDT	Aggregate	Aggregate	Gasoline	3.454008773	114.3092811	69.10780752	0	0
Santa Clara	2023	HHDT	Aggregate	Aggregate	Diesel	8235.058614	991289.0051	120860.7913	0.000287135	2.364574
Santa Clara	2023	HHDT	Aggregate	Aggregate	Electricity	6.701710188	411.5053623	103.2043986	0	0
Santa Clara	2023	HHDT	Aggregate	Aggregate	Natural Gas	753.7365664	53295.9669	6914.033693	2.01376E-05	0.015178
Santa Clara	2023	LHDT2	Aggregate	Aggregate	Gasoline	2494.382223	90793.03842	37162.5785	0	0
Santa Clara	2023	LHDT2	Aggregate	Aggregate	Diesel	4479.531561	176769.2012	56346.87178	0.000133448	0.597783
Santa Clara	2023	MHDT	Aggregate	Aggregate	Gasoline	1418.702832	70785.85764	28385.40626	0	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Diesel	10273.55393	431550.3805	122418.6563	0.000404761	4.158337
Santa Clara	2023	MHDT	Aggregate	Aggregate	Electricity	4.749835347	101.802183	59.6458006	0	0
Santa Clara	2023	MHDT	Aggregate	Aggregate	Natural Gas	83.84099699	4047.873672	762.8100386	1.63095E-06	0.000137

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Total VMT	PM2.5_RUNEX	
Santa Clara	2023	HHDT	Aggregate	15	Gasoline	3.03801782	3.16518E-08	9.61587E-08
Santa Clara	2023	HHDT	Aggregate	15	Diesel	18434.06342	0.000250965	4.626305762
Santa Clara	2023	HHDT	Aggregate	15	Electricity	7.047129849	0	0
Santa Clara	2023	HHDT	Aggregate	15	Natural Gas	2554.187095	1.11513E-05	0.028482602
Santa Clara	2023	LHDT2	Aggregate	15	Gasoline	15750.8655	3.39964E-05	0.53547207
Santa Clara	2023	LHDT2	Aggregate	15	Diesel	23847.13656	0.001359402	32.41785117
Santa Clara	2023	MHDT	Aggregate	15	Gasoline	2489.902537	8.20597E-06	0.020432075
Santa Clara	2023	MHDT	Aggregate	15	Diesel	21408.00922	0.000804501	17.22276102
Santa Clara	2023	MHDT	Aggregate	15	Electricity	5.210773563	0	0
Santa Clara	2023	MHDT	Aggregate	15	Natural Gas	204.4908468	5.74369E-07	0.000117453

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Total VMT	PM2.5_RUNEX	
Santa Clara	2023	HHDT	Aggregate	30	Gasoline	5.120620026	2.37042E-08	1.2138E-07
Santa Clara	2023	HHDT	Aggregate	30	Diesel	24987.87517	0.000262925	6.569947451
Santa Clara	2023	HHDT	Aggregate	30	Electricity	9.616559002	0	0
Santa Clara	2023	HHDT	Aggregate	30	Natural Gas	2776.677468	6.4226E-06	0.017833495
Santa Clara	2023	LHDT2	Aggregate	30	Gasoline	11881.9415	1.31849E-05	0.156661769
Santa Clara	2023	LHDT2	Aggregate	30	Diesel	21477.01675	0.00070139	15.06376972
Santa Clara	2023	MHDT	Aggregate	30	Gasoline	3713.537862	4.96679E-06	0.018444376
Santa Clara	2023	MHDT	Aggregate	30	Diesel	53750.37173	0.00079154	42.54557302
Santa Clara	2023	MHDT	Aggregate	30	Electricity	13.20996183	0	0
Santa Clara	2023	MHDT	Aggregate	30	Natural Gas	428.4814661	5.61616E-07	0.000240642

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Total VMT	PM2.5_RUNEX	
Santa Clara	2023	HHDT	Aggregate	45	Gasoline	6.533370114	2.12502E-08	1.38835E-07
Santa Clara	2023	HHDT	Aggregate	45	Diesel	36969.31815	0.000553049	20.44584652
Santa Clara	2023	HHDT	Aggregate	45	Electricity	14.384836	0	0
Santa Clara	2023	HHDT	Aggregate	45	Natural Gas	3320.889577	5.34554E-06	0.017751963
Santa Clara	2023	LHDT2	Aggregate	45	Gasoline	1369.633569	1.1387E-06	0.001559603
Santa Clara	2023	LHDT2	Aggregate	45	Diesel	6087.340942	0.000125571	0.764392309
Santa Clara	2023	MHDT	Aggregate	45	Gasoline	4303.18607	3.77595E-06	0.016248633
Santa Clara	2023	MHDT	Aggregate	45	Diesel	28143.02357	0.000351935	9.904525039
Santa Clara	2023	MHDT	Aggregate	45	Electricity	6.281909206	0	0
Santa Clara	2023	MHDT	Aggregate	45	Natural Gas	335.5637156	2.39387E-07	8.03296E-05

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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 3/14/2023
** File: C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Const_2023.ADI
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** AERMOD Control Pathway
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   AVERTIME 1 24 PERIOD
   URBANOPT 1928000 Santa_Clara_County
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   RUNORNOT RUN
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CO FINISHED
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** AERMOD Source Pathway
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**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onsite Construction
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.001744169
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 11
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** 608137.887, 4124315.550, 62.11, 3.11, 3.95
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** 608002.263, 4124424.710, 62.24, 3.11, 3.95
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** 608055.851, 4124308.272, 61.84, 3.11, 3.95
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   LOCATION L0001845     VOLUME   608085.365 4124267.107 61.88
   LOCATION L0001846     VOLUME   608091.613 4124272.870 61.86
   LOCATION L0001847     VOLUME   608097.861 4124278.633 61.84
   LOCATION L0001848     VOLUME   608104.109 4124284.396 61.86
   LOCATION L0001849     VOLUME   608110.357 4124290.158 61.87
   LOCATION L0001850     VOLUME   608116.605 4124295.921 61.87
   LOCATION L0001851     VOLUME   608122.854 4124301.684 61.87
   LOCATION L0001852     VOLUME   608129.102 4124307.447 61.94
   LOCATION L0001853     VOLUME   608135.350 4124313.210 62.03
   LOCATION L0001854     VOLUME   608134.342 4124319.145 62.06
   LOCATION L0001855     VOLUME   608128.376 4124325.199 62.02
   LOCATION L0001856     VOLUME   608122.409 4124331.253 61.97
   LOCATION L0001857     VOLUME   608116.442 4124337.307 61.98
   LOCATION L0001858     VOLUME   608110.475 4124343.360 62.02
   LOCATION L0001859     VOLUME   608104.508 4124349.414 62.02
   LOCATION L0001860     VOLUME   608098.542 4124355.468 61.98
   LOCATION L0001861     VOLUME   608092.575 4124361.521 61.96
   LOCATION L0001862     VOLUME   608086.608 4124367.575 61.96
   LOCATION L0001863     VOLUME   608080.641 4124373.629 62.00
   LOCATION L0001864     VOLUME   608074.674 4124379.682 61.99
   LOCATION L0001865     VOLUME   608068.708 4124385.736 61.98
   LOCATION L0001866     VOLUME   608062.741 4124391.790 61.97
   LOCATION L0001867     VOLUME   608056.774 4124397.844 61.95
   LOCATION L0001868     VOLUME   608050.807 4124403.897 61.96
   LOCATION L0001869     VOLUME   608044.840 4124409.951 61.96
   LOCATION L0001870     VOLUME   608038.874 4124416.005 62.00
   LOCATION L0001871     VOLUME   608032.907 4124422.058 62.02
   LOCATION L0001872     VOLUME   608026.940 4124428.112 62.04
   LOCATION L0001873     VOLUME   608020.973 4124434.166 62.08
   LOCATION L0001874     VOLUME   608015.006 4124440.219 62.15
   LOCATION L0001875     VOLUME   608009.040 4124446.273 62.17
   LOCATION L0001876     VOLUME   608003.073 4124452.327 62.14
   LOCATION L0001877     VOLUME   607997.124 4124449.240 62.11
   LOCATION L0001878     VOLUME   607991.182 4124443.162 62.10
   LOCATION L0001879     VOLUME   607985.239 4124437.085 62.10
   LOCATION L0001880     VOLUME   607979.297 4124431.007 62.11
   LOCATION L0001881     VOLUME   607973.354 4124424.930 62.13
   LOCATION L0001882     VOLUME   607967.412 4124418.852 62.13
   LOCATION L0001883     VOLUME   607961.469 4124412.774 62.14
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LOCATION L0001884 VOLUME 607955.527 4124406.697 62.15
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LOCATION L0001886 VOLUME 607943.642 4124394.542 62.12
LOCATION L0001887 VOLUME 607949.132 4124388.528 62.20
LOCATION L0001888 VOLUME 607955.142 4124382.518 62.19
LOCATION L0001889 VOLUME 607961.153 4124376.508 62.15
LOCATION L0001890 VOLUME 607967.163 4124370.497 62.07
LOCATION L0001891 VOLUME 607973.174 4124364.487 61.97
LOCATION L0001892 VOLUME 607979.184 4124358.476 61.89
LOCATION L0001893 VOLUME 607985.194 4124352.466 61.84
LOCATION L0001894 VOLUME 607991.205 4124346.456 61.82
LOCATION L0001895 VOLUME 607997.215 4124340.445 61.82
LOCATION L0001896 VOLUME 608003.226 4124334.435 61.85
LOCATION L0001897 VOLUME 608009.236 4124328.424 61.87
LOCATION L0001898 VOLUME 608015.246 4124322.414 61.88
LOCATION L0001899 VOLUME 608021.257 4124316.404 61.90
LOCATION L0001900 VOLUME 608027.267 4124310.393 61.89
LOCATION L0001901 VOLUME 608033.278 4124304.383 61.86
LOCATION L0001902 VOLUME 608039.288 4124298.372 61.84
LOCATION L0001903 VOLUME 608045.298 4124292.362 61.81
LOCATION L0001904 VOLUME 608051.309 4124286.351 61.81
LOCATION L0001905 VOLUME 608057.319 4124280.341 61.82
LOCATION L0001906 VOLUME 608063.567 4124283.746 61.85
LOCATION L0001907 VOLUME 608069.872 4124289.446 61.88
LOCATION L0001908 VOLUME 608076.177 4124295.147 61.88
LOCATION L0001909 VOLUME 608082.482 4124300.847 61.86
LOCATION L0001910 VOLUME 608088.787 4124306.548 61.83
LOCATION L0001911 VOLUME 608095.092 4124312.248 61.81
LOCATION L0001912 VOLUME 608101.397 4124317.949 61.83
LOCATION L0001913 VOLUME 608105.914 4124323.683 61.86
LOCATION L0001914 VOLUME 608099.827 4124329.616 61.84
LOCATION L0001915 VOLUME 608093.740 4124335.549 61.84
LOCATION L0001916 VOLUME 608087.653 4124341.482 61.86
LOCATION L0001917 VOLUME 608081.566 4124347.414 61.86
LOCATION L0001918 VOLUME 608075.480 4124353.347 61.84
LOCATION L0001919 VOLUME 608069.393 4124359.280 61.82
LOCATION L0001920 VOLUME 608063.306 4124365.213 61.81
LOCATION L0001921 VOLUME 608057.219 4124371.146 61.83
LOCATION L0001922 VOLUME 608051.132 4124377.079 61.83
LOCATION L0001923 VOLUME 608045.045 4124383.012 61.80
LOCATION L0001924 VOLUME 608038.958 4124388.944 61.77
LOCATION L0001925 VOLUME 608032.871 4124394.877 61.74
LOCATION L0001926 VOLUME 608026.784 4124400.810 61.77
LOCATION L0001927 VOLUME 608020.697 4124406.743 61.82
LOCATION L0001928 VOLUME 608014.610 4124412.676 61.94
LOCATION L0001929 VOLUME 608008.523 4124418.609 62.07
LOCATION L0001930 VOLUME 608002.436 4124424.542 62.20
LOCATION L0001931 VOLUME 607995.744 4124419.639 62.21
LOCATION L0001932 VOLUME 607989.035 4124414.421 62.19
LOCATION L0001933 VOLUME 607982.325 4124409.202 62.24

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   LOCATION L0001935     VOLUME   607968.906 4124398.765 62.41
   LOCATION L0001936     VOLUME   607970.442 4124393.049 62.45
   LOCATION L0001937     VOLUME   607976.475 4124387.061 62.31
   LOCATION L0001938     VOLUME   607982.507 4124381.073 62.12
   LOCATION L0001939     VOLUME   607988.540 4124375.085 61.97
   LOCATION L0001940     VOLUME   607994.573 4124369.097 61.86
   LOCATION L0001941     VOLUME   608000.606 4124363.109 61.80
   LOCATION L0001942     VOLUME   608006.638 4124357.121 61.81
   LOCATION L0001943     VOLUME   608012.671 4124351.133 61.83
   LOCATION L0001944     VOLUME   608018.704 4124345.145 61.87
   LOCATION L0001945     VOLUME   608024.736 4124339.157 61.92
   LOCATION L0001946     VOLUME   608030.769 4124333.168 61.94
   LOCATION L0001947     VOLUME   608036.802 4124327.180 61.92
   LOCATION L0001948     VOLUME   608042.835 4124321.192 61.90
   LOCATION L0001949     VOLUME   608048.867 4124315.204 61.88
   LOCATION L0001950     VOLUME   608054.900 4124309.216 61.87
   LOCATION L0001951     VOLUME   608060.707 4124313.533 61.88
   LOCATION L0001952     VOLUME   608066.473 4124319.779 61.88
   LOCATION L0001953     VOLUME   608071.186 4124325.992 61.87
   LOCATION L0001954     VOLUME   608065.043 4124331.866 61.89
   LOCATION L0001955     VOLUME   608058.899 4124337.740 61.90
   LOCATION L0001956     VOLUME   608052.755 4124343.615 61.89
   LOCATION L0001957     VOLUME   608046.612 4124349.489 61.88
   LOCATION L0001958     VOLUME   608040.468 4124355.363 61.84
   LOCATION L0001959     VOLUME   608034.325 4124361.237 61.80
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   LOCATION L0001961     VOLUME   608022.037 4124372.985 61.75
   LOCATION L0001962     VOLUME   608015.894 4124378.860 61.77
   LOCATION L0001963     VOLUME   608009.750 4124384.734 61.82
   LOCATION L0001964     VOLUME   608003.606 4124390.608 61.89
   LOCATION L0001965     VOLUME   607997.463 4124396.482 61.98
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Hauling Hellyer
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.77E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
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** 608032.174, 4124277.664, 61.73, 3.11, 3.95
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LOCATION L0001687 VOLUME 608145.190 4124109.564 62.97
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LOCATION L0001689 VOLUME 608134.626 4124122.884 62.78
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LOCATION L0001691 VOLUME 608124.062 4124136.203 62.63
LOCATION L0001692 VOLUME 608118.780 4124142.863 62.60
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LOCATION L0001694 VOLUME 608108.217 4124156.182 62.48
LOCATION L0001695 VOLUME 608102.935 4124162.842 62.43
LOCATION L0001696 VOLUME 608097.653 4124169.502 62.38
LOCATION L0001697 VOLUME 608092.371 4124176.162 62.34
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LOCATION L0001699 VOLUME 608081.807 4124189.481 62.16
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LOCATION L0001701 VOLUME 608071.244 4124202.800 61.98
LOCATION L0001702 VOLUME 608065.962 4124209.460 61.92
LOCATION L0001703 VOLUME 608061.348 4124216.537 61.88
LOCATION L0001704 VOLUME 608057.687 4124224.208 61.85
LOCATION L0001705 VOLUME 608054.026 4124231.879 61.81
LOCATION L0001706 VOLUME 608050.364 4124239.550 61.76
LOCATION L0001707 VOLUME 608046.703 4124247.221 61.74
LOCATION L0001708 VOLUME 608043.042 4124254.892 61.74
LOCATION L0001709 VOLUME 608039.381 4124262.563 61.74
LOCATION L0001710 VOLUME 608035.720 4124270.235 61.74
LOCATION L0001711 VOLUME 608031.979 4124277.848 61.76
LOCATION L0001712 VOLUME 608025.808 4124283.693 61.78
LOCATION L0001713 VOLUME 608019.636 4124289.537 61.80
LOCATION L0001714 VOLUME 608013.464 4124295.382 61.80
LOCATION L0001715 VOLUME 608007.292 4124301.226 61.80
LOCATION L0001716 VOLUME 608001.120 4124307.071 61.79
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LOCATION L0001720 VOLUME 607976.433 4124330.449 61.74
LOCATION L0001721 VOLUME 607970.261 4124336.293 61.75
LOCATION L0001722 VOLUME 607964.089 4124342.138 61.80
LOCATION L0001723 VOLUME 607957.917 4124347.982 61.85
LOCATION L0001724 VOLUME 607951.746 4124353.827 61.92
LOCATION L0001725 VOLUME 607945.574 4124359.672 61.95
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LOCATION L0001733 VOLUME 607896.199 4124406.428 61.62
LOCATION L0001734 VOLUME 607890.027 4124412.272 61.64

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   LOCATION L0001736     VOLUME   607877.684 4124423.961 61.68
   LOCATION L0001737     VOLUME   607871.512 4124429.806 61.70
   LOCATION L0001738     VOLUME   607865.340 4124435.650 61.69
   LOCATION L0001739     VOLUME   607859.168 4124441.495 61.67
   LOCATION L0001740     VOLUME   607852.996 4124447.340 61.64
   LOCATION L0001741     VOLUME   607846.825 4124453.184 61.59
   LOCATION L0001742     VOLUME   607840.653 4124459.029 61.54
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Hauling Silver Creek
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.02E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 9
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** 607599.678, 4124169.540, 61.67, 3.11, 3.95
** 607457.948, 4124099.405, 62.19, 3.11, 3.95
** 607438.953, 4124097.944, 62.21, 3.11, 3.95
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   LOCATION L0001744     VOLUME   607880.073 4124704.601 74.03
   LOCATION L0001745     VOLUME   607883.874 4124696.998 73.28
   LOCATION L0001746     VOLUME   607887.676 4124689.395 72.56
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   LOCATION L0001748     VOLUME   607895.278 4124674.190 71.09
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   LOCATION L0001752     VOLUME   607910.484 4124643.780 68.95
   LOCATION L0001753     VOLUME   607914.285 4124636.177 68.45
   LOCATION L0001754     VOLUME   607915.027 4124627.918 67.79
   LOCATION L0001755     VOLUME   607914.681 4124619.425 67.05
   LOCATION L0001756     VOLUME   607914.334 4124610.932 66.30
   LOCATION L0001757     VOLUME   607913.987 4124602.439 65.88
   LOCATION L0001758     VOLUME   607913.641 4124593.946 65.50
   LOCATION L0001759     VOLUME   607913.294 4124585.453 65.12
   LOCATION L0001760     VOLUME   607912.947 4124576.960 64.77
   LOCATION L0001761     VOLUME   607912.601 4124568.467 64.51
   LOCATION L0001762     VOLUME   607911.661 4124560.067 64.22
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LOCATION L0001765 VOLUME 607904.836 4124535.498 63.11
LOCATION L0001766 VOLUME 607902.561 4124527.308 62.86
LOCATION L0001767 VOLUME 607900.286 4124519.118 62.69
LOCATION L0001768 VOLUME 607898.011 4124510.928 62.59
LOCATION L0001769 VOLUME 607895.736 4124502.738 62.45
LOCATION L0001770 VOLUME 607893.462 4124494.548 62.33
LOCATION L0001771 VOLUME 607891.187 4124486.358 62.21
LOCATION L0001772 VOLUME 607886.282 4124479.753 62.04
LOCATION L0001773 VOLUME 607880.102 4124473.917 61.89
LOCATION L0001774 VOLUME 607873.923 4124468.081 61.78
LOCATION L0001775 VOLUME 607867.743 4124462.245 61.73
LOCATION L0001776 VOLUME 607861.914 4124456.084 61.69
LOCATION L0001777 VOLUME 607856.573 4124449.472 61.65
LOCATION L0001778 VOLUME 607851.232 4124442.859 61.64
LOCATION L0001779 VOLUME 607845.891 4124436.247 61.62
LOCATION L0001780 VOLUME 607840.550 4124429.634 61.62
LOCATION L0001781 VOLUME 607835.209 4124423.022 61.62
LOCATION L0001782 VOLUME 607829.868 4124416.409 61.62
LOCATION L0001783 VOLUME 607824.528 4124409.797 61.62
LOCATION L0001784 VOLUME 607819.187 4124403.184 61.66
LOCATION L0001785 VOLUME 607813.846 4124396.572 61.69
LOCATION L0001786 VOLUME 607808.505 4124389.959 61.73
LOCATION L0001787 VOLUME 607803.164 4124383.347 61.78
LOCATION L0001788 VOLUME 607797.823 4124376.734 61.83
LOCATION L0001789 VOLUME 607792.482 4124370.122 61.87
LOCATION L0001790 VOLUME 607787.142 4124363.509 61.90
LOCATION L0001791 VOLUME 607781.801 4124356.897 61.94
LOCATION L0001792 VOLUME 607776.460 4124350.284 61.98
LOCATION L0001793 VOLUME 607771.119 4124343.672 62.00
LOCATION L0001794 VOLUME 607765.778 4124337.059 62.03
LOCATION L0001795 VOLUME 607760.437 4124330.447 62.05
LOCATION L0001796 VOLUME 607755.096 4124323.834 62.05
LOCATION L0001797 VOLUME 607749.755 4124317.222 62.02
LOCATION L0001798 VOLUME 607744.415 4124310.609 61.99
LOCATION L0001799 VOLUME 607738.740 4124304.301 61.97
LOCATION L0001800 VOLUME 607732.636 4124298.386 61.96
LOCATION L0001801 VOLUME 607726.532 4124292.471 61.92
LOCATION L0001802 VOLUME 607720.428 4124286.556 61.88
LOCATION L0001803 VOLUME 607714.324 4124280.640 61.84
LOCATION L0001804 VOLUME 607708.220 4124274.725 61.81
LOCATION L0001805 VOLUME 607702.116 4124268.810 61.79
LOCATION L0001806 VOLUME 607696.012 4124262.895 61.75
LOCATION L0001807 VOLUME 607689.908 4124256.979 61.71
LOCATION L0001808 VOLUME 607683.804 4124251.064 61.67
LOCATION L0001809 VOLUME 607677.700 4124245.149 61.63
LOCATION L0001810 VOLUME 607671.596 4124239.233 61.59
LOCATION L0001811 VOLUME 607665.492 4124233.318 61.53
LOCATION L0001812 VOLUME 607659.387 4124227.403 61.48

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   LOCATION L0001813     VOLUME   607653.283 4124221.488 61.46
   LOCATION L0001814     VOLUME   607647.179 4124215.572 61.45
   LOCATION L0001815     VOLUME   607641.075 4124209.657 61.46
   LOCATION L0001816     VOLUME   607634.971 4124203.742 61.48
   LOCATION L0001817     VOLUME   607628.867 4124197.827 61.51
   LOCATION L0001818     VOLUME   607622.763 4124191.911 61.54
   LOCATION L0001819     VOLUME   607616.659 4124185.996 61.58
   LOCATION L0001820     VOLUME   607610.555 4124180.081 61.62
   LOCATION L0001821     VOLUME   607604.451 4124174.165 61.67
   LOCATION L0001822     VOLUME   607598.017 4124168.718 61.69
   LOCATION L0001823     VOLUME   607590.398 4124164.948 61.72
   LOCATION L0001824     VOLUME   607582.780 4124161.178 61.74
   LOCATION L0001825     VOLUME   607575.162 4124157.408 61.77
   LOCATION L0001826     VOLUME   607567.544 4124153.638 61.79
   LOCATION L0001827     VOLUME   607559.925 4124149.869 61.82
   LOCATION L0001828     VOLUME   607552.307 4124146.099 61.84
   LOCATION L0001829     VOLUME   607544.689 4124142.329 61.86
   LOCATION L0001830     VOLUME   607537.071 4124138.559 61.88
   LOCATION L0001831     VOLUME   607529.452 4124134.789 61.91
   LOCATION L0001832     VOLUME   607521.834 4124131.019 61.94
   LOCATION L0001833     VOLUME   607514.216 4124127.249 61.98
   LOCATION L0001834     VOLUME   607506.597 4124123.480 62.02
   LOCATION L0001835     VOLUME   607498.979 4124119.710 62.07
   LOCATION L0001836     VOLUME   607491.361 4124115.940 62.11
   LOCATION L0001837     VOLUME   607483.743 4124112.170 62.15
   LOCATION L0001838     VOLUME   607476.124 4124108.400 62.17
   LOCATION L0001839     VOLUME   607468.506 4124104.630 62.18
   LOCATION L0001840     VOLUME   607460.888 4124100.860 62.22
   LOCATION L0001841     VOLUME   607452.743 4124099.005 62.23
   LOCATION L0001842     VOLUME   607444.268 4124098.353 62.24
** End of LINE VOLUME Source ID = SLINE3
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
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   SRCPARAM L0001845     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001846     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001847     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001848     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001849     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001850     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001851     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001852     0.0000141802      3.11      3.95      2.89
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   SRCPARAM L0001855     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001856     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001857     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001858     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001859     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001862     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001863     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001864     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001865     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001866     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001867     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001870     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001871     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001872     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001873     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001874     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001883     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001884     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001885     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001899     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001916     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001917     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001918     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001919     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001920     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001921     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001922     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001923     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001931     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001933     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001934     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001935     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001938     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001939     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001940     0.0000141802      3.11      3.95      2.89
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   SRCPARAM L0001962     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001963     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001964     0.0000141802      3.11      3.95      2.89
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   SRCPARAM L0001685     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001688     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001690     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001691     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001692     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001693     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001694     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001695     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001696     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001697     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001698     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001699     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001700     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001701     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001702     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001703     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001704     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001705     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001706     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001711     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001712     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001713     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001715     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001716     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001725     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001733     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001735     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001747     0.0000000202      3.11      3.95      2.89
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   SRCPARAM L0001749     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001750     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001751     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001752     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001753     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001754     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001755     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001756     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001757     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001758     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001759     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001760     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001761     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001762     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001763     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001764     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001765     0.0000000202      3.11      3.95      2.89
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   SRCPARAM L0001768     0.0000000202      3.11      3.95      2.89
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   SRCPARAM L0001771     0.0000000202      3.11      3.95      2.89
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SRCPARAM L0001774     0.0000000202      3.11      3.95      2.89
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SRCPARAM L0001778     0.0000000202      3.11      3.95      2.89
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SRCPARAM L0001784     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001785     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001786     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001787     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001788     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001789     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001790     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001791     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001792     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001793     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001794     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001795     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001796     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001797     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001798     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001799     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001800     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001801     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001802     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001803     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001804     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001805     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001806     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001807     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001808     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001809     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001810     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001811     0.0000000202      3.11      3.95      2.89
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SRCPARAM L0001813     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001814     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001815     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001816     0.0000000202      3.11      3.95      2.89
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SRCPARAM L0001819     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001820     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001821     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001822     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001823     0.0000000202      3.11      3.95      2.89
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   SRCPARAM L0001826     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001827     0.0000000202      3.11      3.95      2.89
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   SRCPARAM L0001829     0.0000000202      3.11      3.95      2.89
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   SRCPARAM L0001832     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001833     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001834     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001835     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001836     0.0000000202      3.11      3.95      2.89
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   SRCPARAM L0001840     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001841     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001842     0.0000000202      3.11      3.95      2.89
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   SRCGROUP ALL
SO FINISHED
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** AERMOD Receptor Pathway
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**
RE STARTING
   INCLUDED 469_Piercy_Const_2023.rou
RE FINISHED
**
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** AERMOD Meteorology Pathway
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**
ME STARTING
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   PROFFILE ..\724946.PFL
   SURFDATA 93232 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 40.5 METERS
ME FINISHED
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** AERMOD Output Pathway
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   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
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   PLOTFILE 24 ALL 1ST 469_PIERCY_CONST_2023.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL 469_PIERCY_CONST_2023.AD\PE00GALL.PLT 33
   SUMMFILE 469_Piercy_Const_2023.sum
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 3/14/2023
** File: C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Const_2023.ADI
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** AERMOD Control Pathway
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CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 1928000 Santa_Clara_County
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL 469_Piercy_Const_2023.err
CO FINISHED
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** AERMOD Source Pathway
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**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onsite Construction
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.001744169
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 11
** 608069.744, 4124252.700, 61.90, 3.11, 3.95
** 608137.887, 4124315.550, 62.11, 3.11, 3.95
** 608001.602, 4124453.819, 62.07, 3.11, 3.95
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** 607943.383, 4124394.277, 62.18, 3.11, 3.95
** 608058.497, 4124279.163, 61.80, 3.11, 3.95
** 608106.793, 4124322.827, 61.84, 3.11, 3.95
** 608002.263, 4124424.710, 62.24, 3.11, 3.95
** 607966.538, 4124396.924, 62.45, 3.11, 3.95
** 608055.851, 4124308.272, 61.84, 3.11, 3.95
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** 607996.309, 4124397.585, 61.97, 3.11, 3.95
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   LOCATION L0001844     VOLUME   608079.116 4124261.344 61.89
   LOCATION L0001845     VOLUME   608085.365 4124267.107 61.88
   LOCATION L0001846     VOLUME   608091.613 4124272.870 61.86
   LOCATION L0001847     VOLUME   608097.861 4124278.633 61.84
   LOCATION L0001848     VOLUME   608104.109 4124284.396 61.86
   LOCATION L0001849     VOLUME   608110.357 4124290.158 61.87
   LOCATION L0001850     VOLUME   608116.605 4124295.921 61.87
   LOCATION L0001851     VOLUME   608122.854 4124301.684 61.87
   LOCATION L0001852     VOLUME   608129.102 4124307.447 61.94
   LOCATION L0001853     VOLUME   608135.350 4124313.210 62.03
   LOCATION L0001854     VOLUME   608134.342 4124319.145 62.06
   LOCATION L0001855     VOLUME   608128.376 4124325.199 62.02
   LOCATION L0001856     VOLUME   608122.409 4124331.253 61.97
   LOCATION L0001857     VOLUME   608116.442 4124337.307 61.98
   LOCATION L0001858     VOLUME   608110.475 4124343.360 62.02
   LOCATION L0001859     VOLUME   608104.508 4124349.414 62.02
   LOCATION L0001860     VOLUME   608098.542 4124355.468 61.98
   LOCATION L0001861     VOLUME   608092.575 4124361.521 61.96
   LOCATION L0001862     VOLUME   608086.608 4124367.575 61.96
   LOCATION L0001863     VOLUME   608080.641 4124373.629 62.00
   LOCATION L0001864     VOLUME   608074.674 4124379.682 61.99
   LOCATION L0001865     VOLUME   608068.708 4124385.736 61.98
   LOCATION L0001866     VOLUME   608062.741 4124391.790 61.97
   LOCATION L0001867     VOLUME   608056.774 4124397.844 61.95
   LOCATION L0001868     VOLUME   608050.807 4124403.897 61.96
   LOCATION L0001869     VOLUME   608044.840 4124409.951 61.96
   LOCATION L0001870     VOLUME   608038.874 4124416.005 62.00
   LOCATION L0001871     VOLUME   608032.907 4124422.058 62.02
   LOCATION L0001872     VOLUME   608026.940 4124428.112 62.04
   LOCATION L0001873     VOLUME   608020.973 4124434.166 62.08
   LOCATION L0001874     VOLUME   608015.006 4124440.219 62.15
   LOCATION L0001875     VOLUME   608009.040 4124446.273 62.17
   LOCATION L0001876     VOLUME   608003.073 4124452.327 62.14
   LOCATION L0001877     VOLUME   607997.124 4124449.240 62.11
   LOCATION L0001878     VOLUME   607991.182 4124443.162 62.10
   LOCATION L0001879     VOLUME   607985.239 4124437.085 62.10
   LOCATION L0001880     VOLUME   607979.297 4124431.007 62.11
   LOCATION L0001881     VOLUME   607973.354 4124424.930 62.13
   LOCATION L0001882     VOLUME   607967.412 4124418.852 62.13
   LOCATION L0001883     VOLUME   607961.469 4124412.774 62.14
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LOCATION L0001884 VOLUME 607955.527 4124406.697 62.15
LOCATION L0001885 VOLUME 607949.584 4124400.619 62.16
LOCATION L0001886 VOLUME 607943.642 4124394.542 62.12
LOCATION L0001887 VOLUME 607949.132 4124388.528 62.20
LOCATION L0001888 VOLUME 607955.142 4124382.518 62.19
LOCATION L0001889 VOLUME 607961.153 4124376.508 62.15
LOCATION L0001890 VOLUME 607967.163 4124370.497 62.07
LOCATION L0001891 VOLUME 607973.174 4124364.487 61.97
LOCATION L0001892 VOLUME 607979.184 4124358.476 61.89
LOCATION L0001893 VOLUME 607985.194 4124352.466 61.84
LOCATION L0001894 VOLUME 607991.205 4124346.456 61.82
LOCATION L0001895 VOLUME 607997.215 4124340.445 61.82
LOCATION L0001896 VOLUME 608003.226 4124334.435 61.85
LOCATION L0001897 VOLUME 608009.236 4124328.424 61.87
LOCATION L0001898 VOLUME 608015.246 4124322.414 61.88
LOCATION L0001899 VOLUME 608021.257 4124316.404 61.90
LOCATION L0001900 VOLUME 608027.267 4124310.393 61.89
LOCATION L0001901 VOLUME 608033.278 4124304.383 61.86
LOCATION L0001902 VOLUME 608039.288 4124298.372 61.84
LOCATION L0001903 VOLUME 608045.298 4124292.362 61.81
LOCATION L0001904 VOLUME 608051.309 4124286.351 61.81
LOCATION L0001905 VOLUME 608057.319 4124280.341 61.82
LOCATION L0001906 VOLUME 608063.567 4124283.746 61.85
LOCATION L0001907 VOLUME 608069.872 4124289.446 61.88
LOCATION L0001908 VOLUME 608076.177 4124295.147 61.88
LOCATION L0001909 VOLUME 608082.482 4124300.847 61.86
LOCATION L0001910 VOLUME 608088.787 4124306.548 61.83
LOCATION L0001911 VOLUME 608095.092 4124312.248 61.81
LOCATION L0001912 VOLUME 608101.397 4124317.949 61.83
LOCATION L0001913 VOLUME 608105.914 4124323.683 61.86
LOCATION L0001914 VOLUME 608099.827 4124329.616 61.84
LOCATION L0001915 VOLUME 608093.740 4124335.549 61.84
LOCATION L0001916 VOLUME 608087.653 4124341.482 61.86
LOCATION L0001917 VOLUME 608081.566 4124347.414 61.86
LOCATION L0001918 VOLUME 608075.480 4124353.347 61.84
LOCATION L0001919 VOLUME 608069.393 4124359.280 61.82
LOCATION L0001920 VOLUME 608063.306 4124365.213 61.81
LOCATION L0001921 VOLUME 608057.219 4124371.146 61.83
LOCATION L0001922 VOLUME 608051.132 4124377.079 61.83
LOCATION L0001923 VOLUME 608045.045 4124383.012 61.80
LOCATION L0001924 VOLUME 608038.958 4124388.944 61.77
LOCATION L0001925 VOLUME 608032.871 4124394.877 61.74
LOCATION L0001926 VOLUME 608026.784 4124400.810 61.77
LOCATION L0001927 VOLUME 608020.697 4124406.743 61.82
LOCATION L0001928 VOLUME 608014.610 4124412.676 61.94
LOCATION L0001929 VOLUME 608008.523 4124418.609 62.07
LOCATION L0001930 VOLUME 608002.436 4124424.542 62.20
LOCATION L0001931 VOLUME 607995.744 4124419.639 62.21
LOCATION L0001932 VOLUME 607989.035 4124414.421 62.19
LOCATION L0001933 VOLUME 607982.325 4124409.202 62.24

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   LOCATION L0001934     VOLUME   607975.616 4124403.984 62.36
   LOCATION L0001935     VOLUME   607968.906 4124398.765 62.41
   LOCATION L0001936     VOLUME   607970.442 4124393.049 62.45
   LOCATION L0001937     VOLUME   607976.475 4124387.061 62.31
   LOCATION L0001938     VOLUME   607982.507 4124381.073 62.12
   LOCATION L0001939     VOLUME   607988.540 4124375.085 61.97
   LOCATION L0001940     VOLUME   607994.573 4124369.097 61.86
   LOCATION L0001941     VOLUME   608000.606 4124363.109 61.80
   LOCATION L0001942     VOLUME   608006.638 4124357.121 61.81
   LOCATION L0001943     VOLUME   608012.671 4124351.133 61.83
   LOCATION L0001944     VOLUME   608018.704 4124345.145 61.87
   LOCATION L0001945     VOLUME   608024.736 4124339.157 61.92
   LOCATION L0001946     VOLUME   608030.769 4124333.168 61.94
   LOCATION L0001947     VOLUME   608036.802 4124327.180 61.92
   LOCATION L0001948     VOLUME   608042.835 4124321.192 61.90
   LOCATION L0001949     VOLUME   608048.867 4124315.204 61.88
   LOCATION L0001950     VOLUME   608054.900 4124309.216 61.87
   LOCATION L0001951     VOLUME   608060.707 4124313.533 61.88
   LOCATION L0001952     VOLUME   608066.473 4124319.779 61.88
   LOCATION L0001953     VOLUME   608071.186 4124325.992 61.87
   LOCATION L0001954     VOLUME   608065.043 4124331.866 61.89
   LOCATION L0001955     VOLUME   608058.899 4124337.740 61.90
   LOCATION L0001956     VOLUME   608052.755 4124343.615 61.89
   LOCATION L0001957     VOLUME   608046.612 4124349.489 61.88
   LOCATION L0001958     VOLUME   608040.468 4124355.363 61.84
   LOCATION L0001959     VOLUME   608034.325 4124361.237 61.80
   LOCATION L0001960     VOLUME   608028.181 4124367.111 61.77
   LOCATION L0001961     VOLUME   608022.037 4124372.985 61.75
   LOCATION L0001962     VOLUME   608015.894 4124378.860 61.77
   LOCATION L0001963     VOLUME   608009.750 4124384.734 61.82
   LOCATION L0001964     VOLUME   608003.606 4124390.608 61.89
   LOCATION L0001965     VOLUME   607997.463 4124396.482 61.98
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Hauling Hellyer
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.77E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 608163.676, 4124086.255, 63.21, 3.11, 3.95
** 608062.858, 4124213.374, 61.89, 3.11, 3.95
** 608032.174, 4124277.664, 61.73, 3.11, 3.95
** 607839.304, 4124460.306, 61.54, 3.11, 3.95
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   LOCATION L0001684     VOLUME   608161.035 4124089.585 63.07
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LOCATION L0001685 VOLUME 608155.753 4124096.245 63.04
LOCATION L0001686 VOLUME 608150.471 4124102.904 63.00
LOCATION L0001687 VOLUME 608145.190 4124109.564 62.97
LOCATION L0001688 VOLUME 608139.908 4124116.224 62.88
LOCATION L0001689 VOLUME 608134.626 4124122.884 62.78
LOCATION L0001690 VOLUME 608129.344 4124129.543 62.71
LOCATION L0001691 VOLUME 608124.062 4124136.203 62.63
LOCATION L0001692 VOLUME 608118.780 4124142.863 62.60
LOCATION L0001693 VOLUME 608113.498 4124149.523 62.51
LOCATION L0001694 VOLUME 608108.217 4124156.182 62.48
LOCATION L0001695 VOLUME 608102.935 4124162.842 62.43
LOCATION L0001696 VOLUME 608097.653 4124169.502 62.38
LOCATION L0001697 VOLUME 608092.371 4124176.162 62.34
LOCATION L0001698 VOLUME 608087.089 4124182.821 62.25
LOCATION L0001699 VOLUME 608081.807 4124189.481 62.16
LOCATION L0001700 VOLUME 608076.525 4124196.141 62.06
LOCATION L0001701 VOLUME 608071.244 4124202.800 61.98
LOCATION L0001702 VOLUME 608065.962 4124209.460 61.92
LOCATION L0001703 VOLUME 608061.348 4124216.537 61.88
LOCATION L0001704 VOLUME 608057.687 4124224.208 61.85
LOCATION L0001705 VOLUME 608054.026 4124231.879 61.81
LOCATION L0001706 VOLUME 608050.364 4124239.550 61.76
LOCATION L0001707 VOLUME 608046.703 4124247.221 61.74
LOCATION L0001708 VOLUME 608043.042 4124254.892 61.74
LOCATION L0001709 VOLUME 608039.381 4124262.563 61.74
LOCATION L0001710 VOLUME 608035.720 4124270.235 61.74
LOCATION L0001711 VOLUME 608031.979 4124277.848 61.76
LOCATION L0001712 VOLUME 608025.808 4124283.693 61.78
LOCATION L0001713 VOLUME 608019.636 4124289.537 61.80
LOCATION L0001714 VOLUME 608013.464 4124295.382 61.80
LOCATION L0001715 VOLUME 608007.292 4124301.226 61.80
LOCATION L0001716 VOLUME 608001.120 4124307.071 61.79
LOCATION L0001717 VOLUME 607994.948 4124312.915 61.77
LOCATION L0001718 VOLUME 607988.777 4124318.760 61.76
LOCATION L0001719 VOLUME 607982.605 4124324.604 61.75
LOCATION L0001720 VOLUME 607976.433 4124330.449 61.74
LOCATION L0001721 VOLUME 607970.261 4124336.293 61.75
LOCATION L0001722 VOLUME 607964.089 4124342.138 61.80
LOCATION L0001723 VOLUME 607957.917 4124347.982 61.85
LOCATION L0001724 VOLUME 607951.746 4124353.827 61.92
LOCATION L0001725 VOLUME 607945.574 4124359.672 61.95
LOCATION L0001726 VOLUME 607939.402 4124365.516 61.92
LOCATION L0001727 VOLUME 607933.230 4124371.361 61.85
LOCATION L0001728 VOLUME 607927.058 4124377.205 61.75
LOCATION L0001729 VOLUME 607920.886 4124383.050 61.68
LOCATION L0001730 VOLUME 607914.715 4124388.894 61.65
LOCATION L0001731 VOLUME 607908.543 4124394.739 61.62
LOCATION L0001732 VOLUME 607902.371 4124400.583 61.61
LOCATION L0001733 VOLUME 607896.199 4124406.428 61.62
LOCATION L0001734 VOLUME 607890.027 4124412.272 61.64

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   LOCATION L0001735     VOLUME   607883.856 4124418.117 61.66
   LOCATION L0001736     VOLUME   607877.684 4124423.961 61.68
   LOCATION L0001737     VOLUME   607871.512 4124429.806 61.70
   LOCATION L0001738     VOLUME   607865.340 4124435.650 61.69
   LOCATION L0001739     VOLUME   607859.168 4124441.495 61.67
   LOCATION L0001740     VOLUME   607852.996 4124447.340 61.64
   LOCATION L0001741     VOLUME   607846.825 4124453.184 61.59
   LOCATION L0001742     VOLUME   607840.653 4124459.029 61.54
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Hauling Silver Creek
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.02E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 9
** 607874.371, 4124716.005, 77.54, 3.11, 3.95
** 607915.283, 4124634.181, 66.57, 3.11, 3.95
** 607912.361, 4124562.585, 63.69, 3.11, 3.95
** 607890.444, 4124483.684, 62.22, 3.11, 3.95
** 607864.143, 4124458.845, 61.70, 3.11, 3.95
** 607741.408, 4124306.887, 61.99, 3.11, 3.95
** 607599.678, 4124169.540, 61.67, 3.11, 3.95
** 607457.948, 4124099.405, 62.19, 3.11, 3.95
** 607438.953, 4124097.944, 62.21, 3.11, 3.95
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   LOCATION L0001743     VOLUME   607876.272 4124712.203 74.87
   LOCATION L0001744     VOLUME   607880.073 4124704.601 74.03
   LOCATION L0001745     VOLUME   607883.874 4124696.998 73.28
   LOCATION L0001746     VOLUME   607887.676 4124689.395 72.56
   LOCATION L0001747     VOLUME   607891.477 4124681.793 71.84
   LOCATION L0001748     VOLUME   607895.278 4124674.190 71.09
   LOCATION L0001749     VOLUME   607899.080 4124666.587 70.60
   LOCATION L0001750     VOLUME   607902.881 4124658.985 70.12
   LOCATION L0001751     VOLUME   607906.682 4124651.382 69.57
   LOCATION L0001752     VOLUME   607910.484 4124643.780 68.95
   LOCATION L0001753     VOLUME   607914.285 4124636.177 68.45
   LOCATION L0001754     VOLUME   607915.027 4124627.918 67.79
   LOCATION L0001755     VOLUME   607914.681 4124619.425 67.05
   LOCATION L0001756     VOLUME   607914.334 4124610.932 66.30
   LOCATION L0001757     VOLUME   607913.987 4124602.439 65.88
   LOCATION L0001758     VOLUME   607913.641 4124593.946 65.50
   LOCATION L0001759     VOLUME   607913.294 4124585.453 65.12
   LOCATION L0001760     VOLUME   607912.947 4124576.960 64.77
   LOCATION L0001761     VOLUME   607912.601 4124568.467 64.51
   LOCATION L0001762     VOLUME   607911.661 4124560.067 64.22
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LOCATION L0001763 VOLUME 607909.386 4124551.878 63.83
LOCATION L0001764 VOLUME 607907.111 4124543.688 63.44
LOCATION L0001765 VOLUME 607904.836 4124535.498 63.11
LOCATION L0001766 VOLUME 607902.561 4124527.308 62.86
LOCATION L0001767 VOLUME 607900.286 4124519.118 62.69
LOCATION L0001768 VOLUME 607898.011 4124510.928 62.59
LOCATION L0001769 VOLUME 607895.736 4124502.738 62.45
LOCATION L0001770 VOLUME 607893.462 4124494.548 62.33
LOCATION L0001771 VOLUME 607891.187 4124486.358 62.21
LOCATION L0001772 VOLUME 607886.282 4124479.753 62.04
LOCATION L0001773 VOLUME 607880.102 4124473.917 61.89
LOCATION L0001774 VOLUME 607873.923 4124468.081 61.78
LOCATION L0001775 VOLUME 607867.743 4124462.245 61.73
LOCATION L0001776 VOLUME 607861.914 4124456.084 61.69
LOCATION L0001777 VOLUME 607856.573 4124449.472 61.65
LOCATION L0001778 VOLUME 607851.232 4124442.859 61.64
LOCATION L0001779 VOLUME 607845.891 4124436.247 61.62
LOCATION L0001780 VOLUME 607840.550 4124429.634 61.62
LOCATION L0001781 VOLUME 607835.209 4124423.022 61.62
LOCATION L0001782 VOLUME 607829.868 4124416.409 61.62
LOCATION L0001783 VOLUME 607824.528 4124409.797 61.62
LOCATION L0001784 VOLUME 607819.187 4124403.184 61.66
LOCATION L0001785 VOLUME 607813.846 4124396.572 61.69
LOCATION L0001786 VOLUME 607808.505 4124389.959 61.73
LOCATION L0001787 VOLUME 607803.164 4124383.347 61.78
LOCATION L0001788 VOLUME 607797.823 4124376.734 61.83
LOCATION L0001789 VOLUME 607792.482 4124370.122 61.87
LOCATION L0001790 VOLUME 607787.142 4124363.509 61.90
LOCATION L0001791 VOLUME 607781.801 4124356.897 61.94
LOCATION L0001792 VOLUME 607776.460 4124350.284 61.98
LOCATION L0001793 VOLUME 607771.119 4124343.672 62.00
LOCATION L0001794 VOLUME 607765.778 4124337.059 62.03
LOCATION L0001795 VOLUME 607760.437 4124330.447 62.05
LOCATION L0001796 VOLUME 607755.096 4124323.834 62.05
LOCATION L0001797 VOLUME 607749.755 4124317.222 62.02
LOCATION L0001798 VOLUME 607744.415 4124310.609 61.99
LOCATION L0001799 VOLUME 607738.740 4124304.301 61.97
LOCATION L0001800 VOLUME 607732.636 4124298.386 61.96
LOCATION L0001801 VOLUME 607726.532 4124292.471 61.92
LOCATION L0001802 VOLUME 607720.428 4124286.556 61.88
LOCATION L0001803 VOLUME 607714.324 4124280.640 61.84
LOCATION L0001804 VOLUME 607708.220 4124274.725 61.81
LOCATION L0001805 VOLUME 607702.116 4124268.810 61.79
LOCATION L0001806 VOLUME 607696.012 4124262.895 61.75
LOCATION L0001807 VOLUME 607689.908 4124256.979 61.71
LOCATION L0001808 VOLUME 607683.804 4124251.064 61.67
LOCATION L0001809 VOLUME 607677.700 4124245.149 61.63
LOCATION L0001810 VOLUME 607671.596 4124239.233 61.59
LOCATION L0001811 VOLUME 607665.492 4124233.318 61.53
LOCATION L0001812 VOLUME 607659.387 4124227.403 61.48

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   LOCATION L0001814     VOLUME   607647.179 4124215.572 61.45
   LOCATION L0001815     VOLUME   607641.075 4124209.657 61.46
   LOCATION L0001816     VOLUME   607634.971 4124203.742 61.48
   LOCATION L0001817     VOLUME   607628.867 4124197.827 61.51
   LOCATION L0001818     VOLUME   607622.763 4124191.911 61.54
   LOCATION L0001819     VOLUME   607616.659 4124185.996 61.58
   LOCATION L0001820     VOLUME   607610.555 4124180.081 61.62
   LOCATION L0001821     VOLUME   607604.451 4124174.165 61.67
   LOCATION L0001822     VOLUME   607598.017 4124168.718 61.69
   LOCATION L0001823     VOLUME   607590.398 4124164.948 61.72
   LOCATION L0001824     VOLUME   607582.780 4124161.178 61.74
   LOCATION L0001825     VOLUME   607575.162 4124157.408 61.77
   LOCATION L0001826     VOLUME   607567.544 4124153.638 61.79
   LOCATION L0001827     VOLUME   607559.925 4124149.869 61.82
   LOCATION L0001828     VOLUME   607552.307 4124146.099 61.84
   LOCATION L0001829     VOLUME   607544.689 4124142.329 61.86
   LOCATION L0001830     VOLUME   607537.071 4124138.559 61.88
   LOCATION L0001831     VOLUME   607529.452 4124134.789 61.91
   LOCATION L0001832     VOLUME   607521.834 4124131.019 61.94
   LOCATION L0001833     VOLUME   607514.216 4124127.249 61.98
   LOCATION L0001834     VOLUME   607506.597 4124123.480 62.02
   LOCATION L0001835     VOLUME   607498.979 4124119.710 62.07
   LOCATION L0001836     VOLUME   607491.361 4124115.940 62.11
   LOCATION L0001837     VOLUME   607483.743 4124112.170 62.15
   LOCATION L0001838     VOLUME   607476.124 4124108.400 62.17
   LOCATION L0001839     VOLUME   607468.506 4124104.630 62.18
   LOCATION L0001840     VOLUME   607460.888 4124100.860 62.22
   LOCATION L0001841     VOLUME   607452.743 4124099.005 62.23
   LOCATION L0001842     VOLUME   607444.268 4124098.353 62.24
** End of LINE VOLUME Source ID = SLINE3
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
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   SRCPARAM L0001845     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001846     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001847     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001848     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001849     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001850     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001851     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001852     0.0000141802      3.11      3.95      2.89
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   SRCPARAM L0001854     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001855     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001856     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001857     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001858     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001859     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001862     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001863     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001864     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001865     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001866     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001867     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001870     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001871     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001872     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001873     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001882     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001883     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001884     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001916     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001919     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001920     0.0000141802      3.11      3.95      2.89
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SRCPARAM L0001928     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001929     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001930     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001931     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001932     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001933     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001934     0.0000141802      3.11      3.95      2.89
SRCPARAM L0001935     0.0000141802      3.11      3.95      2.89
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   SRCPARAM L0001964     0.0000141802      3.11      3.95      2.89
   SRCPARAM L0001965     0.0000141802      3.11      3.95      2.89
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   SRCPARAM L0001685     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001690     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001691     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001692     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001693     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001697     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001699     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001700     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001701     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001702     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001703     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001706     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001708     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001710     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001711     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001712     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001713     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001714     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001715     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001716     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001717     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001718     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001719     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001720     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001725     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001733     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001735     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001736     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001737     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001738     0.00000003      3.11      3.95      2.89
   SRCPARAM L0001739     0.00000003      3.11      3.95      2.89
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   SRCPARAM L0001746     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001747     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001748     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001749     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001750     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001751     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001752     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001753     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001754     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001755     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001756     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001757     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001758     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001759     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001760     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001761     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001762     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001763     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001764     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001765     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001766     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001767     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001768     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001769     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001770     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001771     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001772     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001773     0.0000000202      3.11      3.95      2.89
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SRCPARAM L0001774     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001775     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001776     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001777     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001778     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001779     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001780     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001781     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001782     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001783     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001784     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001785     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001786     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001787     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001788     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001789     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001790     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001791     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001792     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001793     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001794     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001795     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001796     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001797     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001798     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001799     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001800     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001801     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001802     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001803     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001804     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001805     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001806     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001807     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001808     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001809     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001810     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001811     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001812     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001813     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001814     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001815     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001816     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001817     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001818     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001819     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001820     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001821     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001822     0.0000000202      3.11      3.95      2.89
SRCPARAM L0001823     0.0000000202      3.11      3.95      2.89
```

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   SRCPARAM L0001824     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001825     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001826     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001827     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001828     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001829     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001830     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001831     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001832     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001833     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001834     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001835     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001836     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001837     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001838     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001839     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001840     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001841     0.0000000202      3.11      3.95      2.89
   SRCPARAM L0001842     0.0000000202      3.11      3.95      2.89
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED 469_Piercy_Const_2023.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\724946.SFC
   PROFFILE ..\724946.PFL
   SURFDATA 93232 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 40.5 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
```

```
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST 469_PIERCY_CONST_2023.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST 469_PIERCY_CONST_2023.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL 469_PIERCY_CONST_2023.AD\PE00GALL.PLT 33
   SUMMFILE 469_Piercy_Const_2023.sum
OU FINISHED

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

 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Cons ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                         ***       22:42:39

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   282 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   1928000.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_2.5
```

```
 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
     and Calculates PERIOD Averages

 **This Run Includes:    282 Source(s);       1 Source Group(s); and      61
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    282 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 a total of     0 line(s)
                 and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  14134

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

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    40.50 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

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

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   469_Piercy_Const_2023.err
```

*** 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 BY
L0001843	0	0.14180E-04	608072.9	4124255.6	61.9	3.11	3.95	2.89	YES
L0001844	0	0.14180E-04	608079.1	4124261.3	61.9	3.11	3.95	2.89	YES
L0001845	0	0.14180E-04	608085.4	4124267.1	61.9	3.11	3.95	2.89	YES
L0001846	0	0.14180E-04	608091.6	4124272.9	61.9	3.11	3.95	2.89	YES
L0001847	0	0.14180E-04	608097.9	4124278.6	61.8	3.11	3.95	2.89	YES
L0001848	0	0.14180E-04	608104.1	4124284.4	61.9	3.11	3.95	2.89	YES
L0001849	0	0.14180E-04	608110.4	4124290.2	61.9	3.11	3.95	2.89	YES
L0001850	0	0.14180E-04	608116.6	4124295.9	61.9	3.11	3.95	2.89	YES
L0001851	0	0.14180E-04	608122.9	4124301.7	61.9	3.11	3.95	2.89	YES
L0001852	0	0.14180E-04	608129.1	4124307.4	61.9	3.11	3.95	2.89	YES
L0001853	0	0.14180E-04	608135.4	4124313.2	62.0	3.11	3.95	2.89	YES
L0001854	0	0.14180E-04	608134.3	4124319.1	62.1	3.11	3.95	2.89	YES
L0001855	0	0.14180E-04	608128.4	4124325.2	62.0	3.11	3.95	2.89	YES
L0001856	0	0.14180E-04	608122.4	4124331.3	62.0	3.11	3.95		

2.89 YES
L0001857 0 0.14180E-04 608116.4 4124337.3 62.0 3.11 3.95
2.89 YES
L0001858 0 0.14180E-04 608110.5 4124343.4 62.0 3.11 3.95
2.89 YES
L0001859 0 0.14180E-04 608104.5 4124349.4 62.0 3.11 3.95
2.89 YES
L0001860 0 0.14180E-04 608098.5 4124355.5 62.0 3.11 3.95
2.89 YES
L0001861 0 0.14180E-04 608092.6 4124361.5 62.0 3.11 3.95
2.89 YES
L0001862 0 0.14180E-04 608086.6 4124367.6 62.0 3.11 3.95
2.89 YES
L0001863 0 0.14180E-04 608080.6 4124373.6 62.0 3.11 3.95
2.89 YES
L0001864 0 0.14180E-04 608074.7 4124379.7 62.0 3.11 3.95
2.89 YES
L0001865 0 0.14180E-04 608068.7 4124385.7 62.0 3.11 3.95
2.89 YES
L0001866 0 0.14180E-04 608062.7 4124391.8 62.0 3.11 3.95
2.89 YES
L0001867 0 0.14180E-04 608056.8 4124397.8 61.9 3.11 3.95
2.89 YES
L0001868 0 0.14180E-04 608050.8 4124403.9 62.0 3.11 3.95
2.89 YES
L0001869 0 0.14180E-04 608044.8 4124410.0 62.0 3.11 3.95
2.89 YES
L0001870 0 0.14180E-04 608038.9 4124416.0 62.0 3.11 3.95
2.89 YES
L0001871 0 0.14180E-04 608032.9 4124422.1 62.0 3.11 3.95
2.89 YES
L0001872 0 0.14180E-04 608026.9 4124428.1 62.0 3.11 3.95
2.89 YES
L0001873 0 0.14180E-04 608021.0 4124434.2 62.1 3.11 3.95
2.89 YES
L0001874 0 0.14180E-04 608015.0 4124440.2 62.1 3.11 3.95
2.89 YES
L0001875 0 0.14180E-04 608009.0 4124446.3 62.2 3.11 3.95
2.89 YES
L0001876 0 0.14180E-04 608003.1 4124452.3 62.1 3.11 3.95
2.89 YES
L0001877 0 0.14180E-04 607997.1 4124449.2 62.1 3.11 3.95
2.89 YES
L0001878 0 0.14180E-04 607991.2 4124443.2 62.1 3.11 3.95
2.89 YES
L0001879 0 0.14180E-04 607985.2 4124437.1 62.1 3.11 3.95
2.89 YES
L0001880 0 0.14180E-04 607979.3 4124431.0 62.1 3.11 3.95
2.89 YES
L0001881 0 0.14180E-04 607973.4 4124424.9 62.1 3.11 3.95

*** 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
L0001883	0	0.14180E-04	607961.5	4124412.8	62.1	3.11	3.95	2.89	YES	
L0001884	0	0.14180E-04	607955.5	4124406.7	62.1	3.11	3.95	2.89	YES	
L0001885	0	0.14180E-04	607949.6	4124400.6	62.2	3.11	3.95	2.89	YES	
L0001886	0	0.14180E-04	607943.6	4124394.5	62.1	3.11	3.95	2.89	YES	
L0001887	0	0.14180E-04	607949.1	4124388.5	62.2	3.11	3.95	2.89	YES	
L0001888	0	0.14180E-04	607955.1	4124382.5	62.2	3.11	3.95	2.89	YES	
L0001889	0	0.14180E-04	607961.2	4124376.5	62.1	3.11	3.95	2.89	YES	
L0001890	0	0.14180E-04	607967.2	4124370.5	62.1	3.11	3.95	2.89	YES	
L0001891	0	0.14180E-04	607973.2	4124364.5	62.0	3.11	3.95	2.89	YES	
L0001892	0	0.14180E-04	607979.2	4124358.5	61.9	3.11	3.95	2.89	YES	
L0001893	0	0.14180E-04	607985.2	4124352.5	61.8	3.11	3.95	2.89	YES	
L0001894	0	0.14180E-04	607991.2	4124346.5	61.8	3.11	3.95	2.89	YES	
L0001895	0	0.14180E-04	607997.2	4124340.4	61.8	3.11	3.95	2.89	YES	
L0001896	0	0.14180E-04	608003.2	4124334.4	61.8	3.11	3.95			

2.89 YES
L0001897 0 0.14180E-04 608009.2 4124328.4 61.9 3.11 3.95
2.89 YES
L0001898 0 0.14180E-04 608015.2 4124322.4 61.9 3.11 3.95
2.89 YES
L0001899 0 0.14180E-04 608021.3 4124316.4 61.9 3.11 3.95
2.89 YES
L0001900 0 0.14180E-04 608027.3 4124310.4 61.9 3.11 3.95
2.89 YES
L0001901 0 0.14180E-04 608033.3 4124304.4 61.9 3.11 3.95
2.89 YES
L0001902 0 0.14180E-04 608039.3 4124298.4 61.8 3.11 3.95
2.89 YES
L0001903 0 0.14180E-04 608045.3 4124292.4 61.8 3.11 3.95
2.89 YES
L0001904 0 0.14180E-04 608051.3 4124286.4 61.8 3.11 3.95
2.89 YES
L0001905 0 0.14180E-04 608057.3 4124280.3 61.8 3.11 3.95
2.89 YES
L0001906 0 0.14180E-04 608063.6 4124283.7 61.8 3.11 3.95
2.89 YES
L0001907 0 0.14180E-04 608069.9 4124289.4 61.9 3.11 3.95
2.89 YES
L0001908 0 0.14180E-04 608076.2 4124295.1 61.9 3.11 3.95
2.89 YES
L0001909 0 0.14180E-04 608082.5 4124300.8 61.9 3.11 3.95
2.89 YES
L0001910 0 0.14180E-04 608088.8 4124306.5 61.8 3.11 3.95
2.89 YES
L0001911 0 0.14180E-04 608095.1 4124312.2 61.8 3.11 3.95
2.89 YES
L0001912 0 0.14180E-04 608101.4 4124317.9 61.8 3.11 3.95
2.89 YES
L0001913 0 0.14180E-04 608105.9 4124323.7 61.9 3.11 3.95
2.89 YES
L0001914 0 0.14180E-04 608099.8 4124329.6 61.8 3.11 3.95
2.89 YES
L0001915 0 0.14180E-04 608093.7 4124335.5 61.8 3.11 3.95
2.89 YES
L0001916 0 0.14180E-04 608087.7 4124341.5 61.9 3.11 3.95
2.89 YES
L0001917 0 0.14180E-04 608081.6 4124347.4 61.9 3.11 3.95
2.89 YES
L0001918 0 0.14180E-04 608075.5 4124353.3 61.8 3.11 3.95
2.89 YES
L0001919 0 0.14180E-04 608069.4 4124359.3 61.8 3.11 3.95
2.89 YES
L0001920 0 0.14180E-04 608063.3 4124365.2 61.8 3.11 3.95
2.89 YES
L0001921 0 0.14180E-04 608057.2 4124371.1 61.8 3.11 3.95

*** 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
L0001923	0	0.14180E-04	608045.0	4124383.0	61.8	3.11	3.95	2.89	YES	
L0001924	0	0.14180E-04	608039.0	4124388.9	61.8	3.11	3.95	2.89	YES	
L0001925	0	0.14180E-04	608032.9	4124394.9	61.7	3.11	3.95	2.89	YES	
L0001926	0	0.14180E-04	608026.8	4124400.8	61.8	3.11	3.95	2.89	YES	
L0001927	0	0.14180E-04	608020.7	4124406.7	61.8	3.11	3.95	2.89	YES	
L0001928	0	0.14180E-04	608014.6	4124412.7	61.9	3.11	3.95	2.89	YES	
L0001929	0	0.14180E-04	608008.5	4124418.6	62.1	3.11	3.95	2.89	YES	
L0001930	0	0.14180E-04	608002.4	4124424.5	62.2	3.11	3.95	2.89	YES	
L0001931	0	0.14180E-04	607995.7	4124419.6	62.2	3.11	3.95	2.89	YES	
L0001932	0	0.14180E-04	607989.0	4124414.4	62.2	3.11	3.95	2.89	YES	
L0001933	0	0.14180E-04	607982.3	4124409.2	62.2	3.11	3.95	2.89	YES	
L0001934	0	0.14180E-04	607975.6	4124404.0	62.4	3.11	3.95	2.89	YES	
L0001935	0	0.14180E-04	607968.9	4124398.8	62.4	3.11	3.95	2.89	YES	
L0001936	0	0.14180E-04	607970.4	4124393.0	62.4	3.11	3.95			

2.89 YES
L0001937 0 0.14180E-04 607976.5 4124387.1 62.3 3.11 3.95
2.89 YES
L0001938 0 0.14180E-04 607982.5 4124381.1 62.1 3.11 3.95
2.89 YES
L0001939 0 0.14180E-04 607988.5 4124375.1 62.0 3.11 3.95
2.89 YES
L0001940 0 0.14180E-04 607994.6 4124369.1 61.9 3.11 3.95
2.89 YES
L0001941 0 0.14180E-04 608000.6 4124363.1 61.8 3.11 3.95
2.89 YES
L0001942 0 0.14180E-04 608006.6 4124357.1 61.8 3.11 3.95
2.89 YES
L0001943 0 0.14180E-04 608012.7 4124351.1 61.8 3.11 3.95
2.89 YES
L0001944 0 0.14180E-04 608018.7 4124345.1 61.9 3.11 3.95
2.89 YES
L0001945 0 0.14180E-04 608024.7 4124339.2 61.9 3.11 3.95
2.89 YES
L0001946 0 0.14180E-04 608030.8 4124333.2 61.9 3.11 3.95
2.89 YES
L0001947 0 0.14180E-04 608036.8 4124327.2 61.9 3.11 3.95
2.89 YES
L0001948 0 0.14180E-04 608042.8 4124321.2 61.9 3.11 3.95
2.89 YES
L0001949 0 0.14180E-04 608048.9 4124315.2 61.9 3.11 3.95
2.89 YES
L0001950 0 0.14180E-04 608054.9 4124309.2 61.9 3.11 3.95
2.89 YES
L0001951 0 0.14180E-04 608060.7 4124313.5 61.9 3.11 3.95
2.89 YES
L0001952 0 0.14180E-04 608066.5 4124319.8 61.9 3.11 3.95
2.89 YES
L0001953 0 0.14180E-04 608071.2 4124326.0 61.9 3.11 3.95
2.89 YES
L0001954 0 0.14180E-04 608065.0 4124331.9 61.9 3.11 3.95
2.89 YES
L0001955 0 0.14180E-04 608058.9 4124337.7 61.9 3.11 3.95
2.89 YES
L0001956 0 0.14180E-04 608052.8 4124343.6 61.9 3.11 3.95
2.89 YES
L0001957 0 0.14180E-04 608046.6 4124349.5 61.9 3.11 3.95
2.89 YES
L0001958 0 0.14180E-04 608040.5 4124355.4 61.8 3.11 3.95
2.89 YES
L0001959 0 0.14180E-04 608034.3 4124361.2 61.8 3.11 3.95
2.89 YES
L0001960 0 0.14180E-04 608028.2 4124367.1 61.8 3.11 3.95
2.89 YES
L0001961 0 0.14180E-04 608022.0 4124373.0 61.8 3.11 3.95

*** 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
L0001963	0	0.14180E-04	608009.8	4124384.7	61.8	3.11	3.95	2.89	YES	
L0001964	0	0.14180E-04	608003.6	4124390.6	61.9	3.11	3.95	2.89	YES	
L0001965	0	0.14180E-04	607997.5	4124396.5	62.0	3.11	3.95	2.89	YES	
L0001684	0	0.30000E-07	608161.0	4124089.6	63.1	3.11	3.95	2.89	YES	
L0001685	0	0.30000E-07	608155.8	4124096.2	63.0	3.11	3.95	2.89	YES	
L0001686	0	0.30000E-07	608150.5	4124102.9	63.0	3.11	3.95	2.89	YES	
L0001687	0	0.30000E-07	608145.2	4124109.6	63.0	3.11	3.95	2.89	YES	
L0001688	0	0.30000E-07	608139.9	4124116.2	62.9	3.11	3.95	2.89	YES	
L0001689	0	0.30000E-07	608134.6	4124122.9	62.8	3.11	3.95	2.89	YES	
L0001690	0	0.30000E-07	608129.3	4124129.5	62.7	3.11	3.95	2.89	YES	
L0001691	0	0.30000E-07	608124.1	4124136.2	62.6	3.11	3.95	2.89	YES	
L0001692	0	0.30000E-07	608118.8	4124142.9	62.6	3.11	3.95	2.89	YES	
L0001693	0	0.30000E-07	608113.5	4124149.5	62.5	3.11	3.95	2.89	YES	
L0001694	0	0.30000E-07	608108.2	4124156.2	62.5	3.11	3.95			

2.89 YES
L0001695 0 0.30000E-07 608102.9 4124162.8 62.4 3.11 3.95
2.89 YES
L0001696 0 0.30000E-07 608097.7 4124169.5 62.4 3.11 3.95
2.89 YES
L0001697 0 0.30000E-07 608092.4 4124176.2 62.3 3.11 3.95
2.89 YES
L0001698 0 0.30000E-07 608087.1 4124182.8 62.2 3.11 3.95
2.89 YES
L0001699 0 0.30000E-07 608081.8 4124189.5 62.2 3.11 3.95
2.89 YES
L0001700 0 0.30000E-07 608076.5 4124196.1 62.1 3.11 3.95
2.89 YES
L0001701 0 0.30000E-07 608071.2 4124202.8 62.0 3.11 3.95
2.89 YES
L0001702 0 0.30000E-07 608066.0 4124209.5 61.9 3.11 3.95
2.89 YES
L0001703 0 0.30000E-07 608061.3 4124216.5 61.9 3.11 3.95
2.89 YES
L0001704 0 0.30000E-07 608057.7 4124224.2 61.8 3.11 3.95
2.89 YES
L0001705 0 0.30000E-07 608054.0 4124231.9 61.8 3.11 3.95
2.89 YES
L0001706 0 0.30000E-07 608050.4 4124239.5 61.8 3.11 3.95
2.89 YES
L0001707 0 0.30000E-07 608046.7 4124247.2 61.7 3.11 3.95
2.89 YES
L0001708 0 0.30000E-07 608043.0 4124254.9 61.7 3.11 3.95
2.89 YES
L0001709 0 0.30000E-07 608039.4 4124262.6 61.7 3.11 3.95
2.89 YES
L0001710 0 0.30000E-07 608035.7 4124270.2 61.7 3.11 3.95
2.89 YES
L0001711 0 0.30000E-07 608032.0 4124277.8 61.8 3.11 3.95
2.89 YES
L0001712 0 0.30000E-07 608025.8 4124283.7 61.8 3.11 3.95
2.89 YES
L0001713 0 0.30000E-07 608019.6 4124289.5 61.8 3.11 3.95
2.89 YES
L0001714 0 0.30000E-07 608013.5 4124295.4 61.8 3.11 3.95
2.89 YES
L0001715 0 0.30000E-07 608007.3 4124301.2 61.8 3.11 3.95
2.89 YES
L0001716 0 0.30000E-07 608001.1 4124307.1 61.8 3.11 3.95
2.89 YES
L0001717 0 0.30000E-07 607994.9 4124312.9 61.8 3.11 3.95
2.89 YES
L0001718 0 0.30000E-07 607988.8 4124318.8 61.8 3.11 3.95
2.89 YES
L0001719 0 0.30000E-07 607982.6 4124324.6 61.8 3.11 3.95

*** 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
L0001721	0	0.30000E-07	607970.3	4124336.3	61.8	3.11	3.95	2.89	YES	
L0001722	0	0.30000E-07	607964.1	4124342.1	61.8	3.11	3.95	2.89	YES	
L0001723	0	0.30000E-07	607957.9	4124348.0	61.8	3.11	3.95	2.89	YES	
L0001724	0	0.30000E-07	607951.7	4124353.8	61.9	3.11	3.95	2.89	YES	
L0001725	0	0.30000E-07	607945.6	4124359.7	61.9	3.11	3.95	2.89	YES	
L0001726	0	0.30000E-07	607939.4	4124365.5	61.9	3.11	3.95	2.89	YES	
L0001727	0	0.30000E-07	607933.2	4124371.4	61.8	3.11	3.95	2.89	YES	
L0001728	0	0.30000E-07	607927.1	4124377.2	61.8	3.11	3.95	2.89	YES	
L0001729	0	0.30000E-07	607920.9	4124383.0	61.7	3.11	3.95	2.89	YES	
L0001730	0	0.30000E-07	607914.7	4124388.9	61.6	3.11	3.95	2.89	YES	
L0001731	0	0.30000E-07	607908.5	4124394.7	61.6	3.11	3.95	2.89	YES	
L0001732	0	0.30000E-07	607902.4	4124400.6	61.6	3.11	3.95	2.89	YES	
L0001733	0	0.30000E-07	607896.2	4124406.4	61.6	3.11	3.95	2.89	YES	
L0001734	0	0.30000E-07	607890.0	4124412.3	61.6	3.11	3.95			

2.89 YES
L0001735 0 0.30000E-07 607883.9 4124418.1 61.7 3.11 3.95
2.89 YES
L0001736 0 0.30000E-07 607877.7 4124424.0 61.7 3.11 3.95
2.89 YES
L0001737 0 0.30000E-07 607871.5 4124429.8 61.7 3.11 3.95
2.89 YES
L0001738 0 0.30000E-07 607865.3 4124435.6 61.7 3.11 3.95
2.89 YES
L0001739 0 0.30000E-07 607859.2 4124441.5 61.7 3.11 3.95
2.89 YES
L0001740 0 0.30000E-07 607853.0 4124447.3 61.6 3.11 3.95
2.89 YES
L0001741 0 0.30000E-07 607846.8 4124453.2 61.6 3.11 3.95
2.89 YES
L0001742 0 0.30000E-07 607840.7 4124459.0 61.5 3.11 3.95
2.89 YES
L0001743 0 0.20200E-07 607876.3 4124712.2 74.9 3.11 3.95
2.89 YES
L0001744 0 0.20200E-07 607880.1 4124704.6 74.0 3.11 3.95
2.89 YES
L0001745 0 0.20200E-07 607883.9 4124697.0 73.3 3.11 3.95
2.89 YES
L0001746 0 0.20200E-07 607887.7 4124689.4 72.6 3.11 3.95
2.89 YES
L0001747 0 0.20200E-07 607891.5 4124681.8 71.8 3.11 3.95
2.89 YES
L0001748 0 0.20200E-07 607895.3 4124674.2 71.1 3.11 3.95
2.89 YES
L0001749 0 0.20200E-07 607899.1 4124666.6 70.6 3.11 3.95
2.89 YES
L0001750 0 0.20200E-07 607902.9 4124659.0 70.1 3.11 3.95
2.89 YES
L0001751 0 0.20200E-07 607906.7 4124651.4 69.6 3.11 3.95
2.89 YES
L0001752 0 0.20200E-07 607910.5 4124643.8 69.0 3.11 3.95
2.89 YES
L0001753 0 0.20200E-07 607914.3 4124636.2 68.5 3.11 3.95
2.89 YES
L0001754 0 0.20200E-07 607915.0 4124627.9 67.8 3.11 3.95
2.89 YES
L0001755 0 0.20200E-07 607914.7 4124619.4 67.0 3.11 3.95
2.89 YES
L0001756 0 0.20200E-07 607914.3 4124610.9 66.3 3.11 3.95
2.89 YES
L0001757 0 0.20200E-07 607914.0 4124602.4 65.9 3.11 3.95
2.89 YES
L0001758 0 0.20200E-07 607913.6 4124593.9 65.5 3.11 3.95
2.89 YES
L0001759 0 0.20200E-07 607913.3 4124585.5 65.1 3.11 3.95

*** 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
L0001761	0	0.20200E-07	607912.6	4124568.5	64.5	3.11	3.95	2.89	YES	
L0001762	0	0.20200E-07	607911.7	4124560.1	64.2	3.11	3.95	2.89	YES	
L0001763	0	0.20200E-07	607909.4	4124551.9	63.8	3.11	3.95	2.89	YES	
L0001764	0	0.20200E-07	607907.1	4124543.7	63.4	3.11	3.95	2.89	YES	
L0001765	0	0.20200E-07	607904.8	4124535.5	63.1	3.11	3.95	2.89	YES	
L0001766	0	0.20200E-07	607902.6	4124527.3	62.9	3.11	3.95	2.89	YES	
L0001767	0	0.20200E-07	607900.3	4124519.1	62.7	3.11	3.95	2.89	YES	
L0001768	0	0.20200E-07	607898.0	4124510.9	62.6	3.11	3.95	2.89	YES	
L0001769	0	0.20200E-07	607895.7	4124502.7	62.4	3.11	3.95	2.89	YES	
L0001770	0	0.20200E-07	607893.5	4124494.5	62.3	3.11	3.95	2.89	YES	
L0001771	0	0.20200E-07	607891.2	4124486.4	62.2	3.11	3.95	2.89	YES	
L0001772	0	0.20200E-07	607886.3	4124479.8	62.0	3.11	3.95	2.89	YES	
L0001773	0	0.20200E-07	607880.1	4124473.9	61.9	3.11	3.95	2.89	YES	
L0001774	0	0.20200E-07	607873.9	4124468.1	61.8	3.11	3.95			

2.89 YES
L0001775 0 0.20200E-07 607867.7 4124462.2 61.7 3.11 3.95
2.89 YES
L0001776 0 0.20200E-07 607861.9 4124456.1 61.7 3.11 3.95
2.89 YES
L0001777 0 0.20200E-07 607856.6 4124449.5 61.6 3.11 3.95
2.89 YES
L0001778 0 0.20200E-07 607851.2 4124442.9 61.6 3.11 3.95
2.89 YES
L0001779 0 0.20200E-07 607845.9 4124436.2 61.6 3.11 3.95
2.89 YES
L0001780 0 0.20200E-07 607840.6 4124429.6 61.6 3.11 3.95
2.89 YES
L0001781 0 0.20200E-07 607835.2 4124423.0 61.6 3.11 3.95
2.89 YES
L0001782 0 0.20200E-07 607829.9 4124416.4 61.6 3.11 3.95
2.89 YES
L0001783 0 0.20200E-07 607824.5 4124409.8 61.6 3.11 3.95
2.89 YES
L0001784 0 0.20200E-07 607819.2 4124403.2 61.7 3.11 3.95
2.89 YES
L0001785 0 0.20200E-07 607813.8 4124396.6 61.7 3.11 3.95
2.89 YES
L0001786 0 0.20200E-07 607808.5 4124390.0 61.7 3.11 3.95
2.89 YES
L0001787 0 0.20200E-07 607803.2 4124383.3 61.8 3.11 3.95
2.89 YES
L0001788 0 0.20200E-07 607797.8 4124376.7 61.8 3.11 3.95
2.89 YES
L0001789 0 0.20200E-07 607792.5 4124370.1 61.9 3.11 3.95
2.89 YES
L0001790 0 0.20200E-07 607787.1 4124363.5 61.9 3.11 3.95
2.89 YES
L0001791 0 0.20200E-07 607781.8 4124356.9 61.9 3.11 3.95
2.89 YES
L0001792 0 0.20200E-07 607776.5 4124350.3 62.0 3.11 3.95
2.89 YES
L0001793 0 0.20200E-07 607771.1 4124343.7 62.0 3.11 3.95
2.89 YES
L0001794 0 0.20200E-07 607765.8 4124337.1 62.0 3.11 3.95
2.89 YES
L0001795 0 0.20200E-07 607760.4 4124330.4 62.0 3.11 3.95
2.89 YES
L0001796 0 0.20200E-07 607755.1 4124323.8 62.0 3.11 3.95
2.89 YES
L0001797 0 0.20200E-07 607749.8 4124317.2 62.0 3.11 3.95
2.89 YES
L0001798 0 0.20200E-07 607744.4 4124310.6 62.0 3.11 3.95
2.89 YES
L0001799 0 0.20200E-07 607738.7 4124304.3 62.0 3.11 3.95

*** 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
L0001801	0	0.20200E-07	607726.5	4124292.5	61.9	3.11	3.95	2.89	YES	
L0001802	0	0.20200E-07	607720.4	4124286.6	61.9	3.11	3.95	2.89	YES	
L0001803	0	0.20200E-07	607714.3	4124280.6	61.8	3.11	3.95	2.89	YES	
L0001804	0	0.20200E-07	607708.2	4124274.7	61.8	3.11	3.95	2.89	YES	
L0001805	0	0.20200E-07	607702.1	4124268.8	61.8	3.11	3.95	2.89	YES	
L0001806	0	0.20200E-07	607696.0	4124262.9	61.8	3.11	3.95	2.89	YES	
L0001807	0	0.20200E-07	607689.9	4124257.0	61.7	3.11	3.95	2.89	YES	
L0001808	0	0.20200E-07	607683.8	4124251.1	61.7	3.11	3.95	2.89	YES	
L0001809	0	0.20200E-07	607677.7	4124245.1	61.6	3.11	3.95	2.89	YES	
L0001810	0	0.20200E-07	607671.6	4124239.2	61.6	3.11	3.95	2.89	YES	
L0001811	0	0.20200E-07	607665.5	4124233.3	61.5	3.11	3.95	2.89	YES	
L0001812	0	0.20200E-07	607659.4	4124227.4	61.5	3.11	3.95	2.89	YES	
L0001813	0	0.20200E-07	607653.3	4124221.5	61.5	3.11	3.95	2.89	YES	
L0001814	0	0.20200E-07	607647.2	4124215.6	61.4	3.11	3.95			

2.89 YES
L0001815 0 0.20200E-07 607641.1 4124209.7 61.5 3.11 3.95
2.89 YES
L0001816 0 0.20200E-07 607635.0 4124203.7 61.5 3.11 3.95
2.89 YES
L0001817 0 0.20200E-07 607628.9 4124197.8 61.5 3.11 3.95
2.89 YES
L0001818 0 0.20200E-07 607622.8 4124191.9 61.5 3.11 3.95
2.89 YES
L0001819 0 0.20200E-07 607616.7 4124186.0 61.6 3.11 3.95
2.89 YES
L0001820 0 0.20200E-07 607610.6 4124180.1 61.6 3.11 3.95
2.89 YES
L0001821 0 0.20200E-07 607604.5 4124174.2 61.7 3.11 3.95
2.89 YES
L0001822 0 0.20200E-07 607598.0 4124168.7 61.7 3.11 3.95
2.89 YES
L0001823 0 0.20200E-07 607590.4 4124164.9 61.7 3.11 3.95
2.89 YES
L0001824 0 0.20200E-07 607582.8 4124161.2 61.7 3.11 3.95
2.89 YES
L0001825 0 0.20200E-07 607575.2 4124157.4 61.8 3.11 3.95
2.89 YES
L0001826 0 0.20200E-07 607567.5 4124153.6 61.8 3.11 3.95
2.89 YES
L0001827 0 0.20200E-07 607559.9 4124149.9 61.8 3.11 3.95
2.89 YES
L0001828 0 0.20200E-07 607552.3 4124146.1 61.8 3.11 3.95
2.89 YES
L0001829 0 0.20200E-07 607544.7 4124142.3 61.9 3.11 3.95
2.89 YES
L0001830 0 0.20200E-07 607537.1 4124138.6 61.9 3.11 3.95
2.89 YES
L0001831 0 0.20200E-07 607529.5 4124134.8 61.9 3.11 3.95
2.89 YES
L0001832 0 0.20200E-07 607521.8 4124131.0 61.9 3.11 3.95
2.89 YES
L0001833 0 0.20200E-07 607514.2 4124127.2 62.0 3.11 3.95
2.89 YES
L0001834 0 0.20200E-07 607506.6 4124123.5 62.0 3.11 3.95
2.89 YES
L0001835 0 0.20200E-07 607499.0 4124119.7 62.1 3.11 3.95
2.89 YES
L0001836 0 0.20200E-07 607491.4 4124115.9 62.1 3.11 3.95
2.89 YES
L0001837 0 0.20200E-07 607483.7 4124112.2 62.1 3.11 3.95
2.89 YES
L0001838 0 0.20200E-07 607476.1 4124108.4 62.2 3.11 3.95
2.89 YES
L0001839 0 0.20200E-07 607468.5 4124104.6 62.2 3.11 3.95

*** 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 BY
L0001841	0	0.20200E-07	607452.7	4124099.0	62.2	3.11	3.95	2.89	YES
L0001842	0	0.20200E-07	607444.3	4124098.4	62.2	3.11	3.95	2.89	YES

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	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 , 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 , 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 ,

*** SOURCE IDs DEFINING SOURCE GROUPS
***

SRCGROUP ID	SOURCE IDs

L0001721 , L0001722 , L0001723 , L0001724 , L0001725 ,
L0001726 , 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 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

URBAN ID	URBAN POP	SOURCE IDs
	1928000.	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 , 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   , 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   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES

***

URBAN ID	URBAN POP	SOURCE IDs
		L0001721 , L0001722 , L0001723 , L0001724 , L0001725 , L0001726 , 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 ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

     (608331.4, 4124129.3,   64.3,   284.0,   0.0);   (608366.4, 4124129.3,   64.7,   284.0,   0.0);
     (608401.4, 4124129.3,   64.6,   284.0,   0.0);   (608436.4, 4124129.3,   65.3,   284.0,   0.0);
     (608471.4, 4124129.3,   67.3,   284.0,   0.0);   (608506.4, 4124129.3,   71.7,   284.0,   0.0);
     (607911.4, 4124164.3,   62.4,   284.0,   0.0);   (607946.4, 4124164.3,   62.5,   284.0,   0.0);
     (607981.4, 4124164.3,   62.4,   284.0,   0.0);   (608016.4, 4124164.3,   62.2,   284.0,   0.0);
     (608296.4, 4124164.3,   64.3,   284.0,   0.0);   (608331.4, 4124164.3,   64.7,   284.0,   0.0);
     (608366.4, 4124164.3,   64.8,   284.0,   0.0);   (608401.4, 4124164.3,   65.0,   284.0,   0.0);
     (608436.4, 4124164.3,   66.4,   284.0,   0.0);   (608471.4, 4124164.3,   70.2,   284.0,   0.0);
     (608506.4, 4124164.3,   77.2,   284.0,   0.0);   (607911.4, 4124199.3,   62.3,   284.0,   0.0);
     (607946.4, 4124199.3,   62.2,   284.0,   0.0);   (607981.4, 4124199.3,   62.2,   284.0,   0.0);
     (608016.4, 4124199.3,   62.1,   284.0,   0.0);   (608296.4, 4124199.3,   64.6,   284.0,   0.0);
     (608331.4, 4124199.3,   64.8,   284.0,   0.0);   (608366.4, 4124199.3,   65.3,   284.0,   0.0);
     (608401.4, 4124199.3,   66.7,   284.0,   0.0);   (608436.4, 4124199.3,   69.1,   284.0,   0.0);
     (608471.4, 4124199.3,   75.0,   284.0,   0.0);   (608506.4, 4124199.3,   84.7,   284.0,   0.0);
     (607946.4, 4124234.3,   61.9,   284.0,   0.0);   (607981.4, 4124234.3,   61.8,   284.0,   0.0);
     (608016.4, 4124234.3,   61.8,   284.0,   0.0);   (608261.4, 4124234.3,   63.8,   284.0,   0.0);
     (608296.4, 4124234.3,   64.6,   284.0,   0.0);   (608331.4, 4124234.3,   65.6,   284.0,   0.0);
     (608366.4, 4124234.3,   67.4,   284.0,   0.0);   (608401.4, 4124234.3,   69.7,   284.0,   0.0);

```
     ( 608436.4, 4124234.3,      73.1,     284.0,       0.0);         ( 608471.4,
4124234.3,      82.0,     284.0,       0.0);
     ( 608506.4, 4124234.3,      95.2,     284.0,       0.0);         ( 607946.4,
4124269.3,      61.8,     284.0,       0.0);
     ( 608226.4, 4124269.3,      63.7,     284.0,       0.0);         ( 608261.4,
4124269.3,      63.7,     284.0,       0.0);
     ( 608296.4, 4124269.3,      65.3,     284.0,       0.0);         ( 608331.4,
4124269.3,      67.9,     284.0,       0.0);
     ( 608366.4, 4124269.3,      70.9,     284.0,       0.0);         ( 608401.4,
4124269.3,      73.7,     284.0,       0.0);
     ( 608436.4, 4124269.3,      77.8,     284.0,       0.0);         ( 608471.4,
4124269.3,      87.9,     284.0,       0.0);
     ( 608506.4, 4124269.3,     102.6,     284.0,       0.0);         ( 608226.4,
4124304.3,      63.6,     284.0,       0.0);
     ( 608261.4, 4124304.3,      64.1,     284.0,       0.0);         ( 608296.4,
4124304.3,      67.1,     284.0,       0.0);
     ( 608331.4, 4124304.3,      71.4,     284.0,       0.0);         ( 608366.4,
4124304.3,      75.5,     284.0,       0.0);
     ( 608401.4, 4124304.3,      79.5,     284.0,       0.0);         ( 608436.4,
4124304.3,      84.9,     284.0,       0.0);
     ( 608471.4, 4124304.3,      93.8,     284.0,       0.0);         ( 608506.4,
4124304.3,     104.9,     284.0,       0.0);
     ( 608332.2, 4124334.3,      75.8,     284.0,       0.0);         ( 608367.2,
4124334.3,      80.0,     284.0,       0.0);
     ( 608402.2, 4124334.3,      85.6,     284.0,       0.0);

↑ *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Cons ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                        ***        22:42:39

                                   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                            *** 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 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 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Cons ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                         ***       22:42:39

                                    PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

   Surface file:   ..\724946.SFC
                 Met Version:  14134
   Profile file:   ..\724946.PFL

   Surface format: FREE

   Profile format: FREE

   Surface station no.:    93232                 Upper air station no.:    23230
                 Name: UNKNOWN                                 Name:
OAKLAND/WSO_AP
                 Year:   2009                                  Year:   2009

 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
 09 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  999.0   -9.0
```

```
 09 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  999.0   -9.0
 09 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  282.1    2.0
 09 01 01   1 08  -14.6  0.258 -9.000 -9.000 -999.  315.    106.7  0.09   1.01
0.74    3.36  323.   10.0  282.1    2.0
 09 01 01   1 09   -5.8  0.275 -9.000 -9.000 -999.  346.    324.0  0.09   1.01
0.39    3.36  307.   10.0  282.1    2.0
 09 01 01   1 10    8.2  0.291  0.289  0.016  107.  377.   -274.8  0.09   1.01
0.27    3.36  311.   10.0  282.1    2.0
 09 01 01   1 11   17.3  0.297  0.448  0.016  189.  389.   -138.5  0.09   1.01
0.23    3.36  314.   10.0  282.1    2.0
 09 01 01   1 12   22.3 -9.000 -9.000 -9.000  257. -999. -99999.0  0.14   1.01
0.21    0.00    0.   10.0  282.1    2.0
 09 01 01   1 13   23.1  0.301  0.584  0.016  312.  396.   -106.7  0.09   1.01
0.21    3.36  313.   10.0  282.1    2.0
 09 01 01   1 14   19.8 -9.000 -9.000 -9.000  353. -999. -99999.0  0.14   1.01
0.22    0.00    0.   10.0  283.1    2.0
 09 01 01   1 15   12.1  0.339  0.501  0.016  375.  473.   -291.2  0.17   1.01
0.25    3.36   42.   10.0  283.1    2.0
 09 01 01   1 16   25.3  0.263  0.664  0.017  420.  327.    -65.3  0.09   1.01
0.33    2.86   74.   10.0  284.1    2.0
 09 01 01   1 17  -13.7  0.251 -9.000 -9.000 -999.  301.    104.3  0.17   1.01
0.57    2.86   41.   10.0  283.1    2.0
 09 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  282.1    2.0
 09 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  282.1    2.0
 09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  280.1    2.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  280.1    2.0
 09 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  280.1    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** THE PERIOD (43872 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 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 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
608331.37	4124129.27	0.01284	608366.37	4124129.27	0.01168
608401.37	4124129.27	0.01048	608436.37	4124129.27	0.00933
608471.37	4124129.27	0.00889	608506.37	4124129.27	0.00805
607911.37	4124164.27	0.00345	607946.37	4124164.27	0.00405
607981.37	4124164.27	0.00486	608016.37	4124164.27	0.00601
608296.37	4124164.27	0.01739	608331.37	4124164.27	0.01536
608366.37	4124164.27	0.01339	608401.37	4124164.27	0.01162
608436.37	4124164.27	0.01007	608471.37	4124164.27	0.00962
608506.37	4124164.27	0.00830	607911.37	4124199.27	0.00459
607946.37	4124199.27	0.00561	607981.37	4124199.27	0.00705
608016.37	4124199.27	0.00921	608296.37	4124199.27	0.02102

```
         608331.37    4124199.27        0.01759                      608366.37
4124199.27        0.01475
         608401.37    4124199.27        0.01243                      608436.37
4124199.27        0.01159
         608471.37    4124199.27        0.00993                      608506.37
4124199.27        0.00798
         607946.37    4124234.27        0.00819                      607981.37
4124234.27        0.01105
         608016.37    4124234.27        0.01598                      608261.37
4124234.27        0.03023
         608296.37    4124234.27        0.02386                      608331.37
4124234.27        0.01909
         608366.37    4124234.27        0.01677                      608401.37
4124234.27        0.01409
         608436.37    4124234.27        0.01186                      608471.37
4124234.27        0.00949
         608506.37    4124234.27        0.00709                      607946.37
4124269.27        0.01271
         608226.37    4124269.27        0.04621                      608261.37
4124269.27        0.03326
         608296.37    4124269.27        0.02502                      608331.37
4124269.27        0.02108
         608366.37    4124269.27        0.01701                      608401.37
4124269.27        0.01387
         608436.37    4124269.27        0.01130                      608471.37
4124269.27        0.00860
         608506.37    4124269.27        0.00638                      608226.37
4124304.27        0.04662
         608261.37    4124304.27        0.03239                      608296.37
4124304.27        0.02546
         608331.37    4124304.27        0.01993                      608366.37
4124304.27        0.01554
         608401.37    4124304.27        0.01230                      608436.37
4124304.27        0.00969
         608471.37    4124304.27        0.00743                      608506.37
4124304.27        0.00580
         608332.18    4124334.30        0.01688                      608367.18
4124334.30        0.01304
         608402.18    4124334.30        0.01006

 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Cons ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                       ***        22:42:39

                                  PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

INCLUDING SOURCE(S): 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 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
608331.37	4124129.27	0.20979	(13021120)	608366.37	4124129.27	0.20660	(13021120)
608401.37	4124129.27	0.18956	(13021120)	608436.37	4124129.27	0.16414	(13021120)
608471.37	4124129.27	0.18019	(11120517)	608506.37	4124129.27	0.18779	(11120517)
607911.37	4124164.27	0.21024	(13122819)	607946.37	4124164.27	0.22282	(13122819)
607981.37	4124164.27	0.23146	(13122817)	608016.37	4124164.27	0.28101	(11121718)
608296.37	4124164.27	0.26299	(13021120)	608331.37	4124164.27	0.24642	(13021120)
608366.37	4124164.27	0.21441	(13021120)	608401.37	4124164.27	0.17639	(13021120)
608436.37	4124164.27	0.13892	(13021120)	608471.37	4124164.27	0.18647	(11120517)
608506.37	4124164.27	0.14235	(11120517)	607911.37	4124199.27	0.23231	(13122819)
607946.37	4124199.27	0.26007	(13122819)	607981.37	4124199.27	0.27901	(13122819)
608016.37	4124199.27	0.33395	(11121718)	608296.37	4124199.27	0.29324	(13021120)
608331.37	4124199.27	0.23857	(13021120)	608366.37	4124199.27	0.18386	(13021120)
608401.37	4124199.27	0.14594	(11120517)	608436.37	4124199.27	0.18451	(10092919)
608471.37	4124199.27	0.18526	(10092919)	608506.37	4124199.27	0.14434	(10092919)
607946.37	4124234.27	0.30158	(09012822)	607981.37	4124234.27	0.34091	(13122819)
608016.37	4124234.27	0.41028	(11121718)	608261.37			

```
 4124234.27        0.34738  (13021120)
       608296.37   4124234.27        0.25805  (13021120)               608331.37
 4124234.27        0.19244  (11120517)
       608366.37   4124234.27        0.23321  (10092919)               608401.37
 4124234.27        0.23666  (10092919)
       608436.37   4124234.27        0.22561  (10092919)               608471.37
 4124234.27        0.17255  (10092919)
       608506.37   4124234.27        0.13769  (10092919)               607946.37
 4124269.27        0.39557  (09012822)
       608226.37   4124269.27        0.40314  (13021120)               608261.37
 4124269.27        0.27324  (11120517)
       608296.37   4124269.27        0.21729  (10092919)               608331.37
 4124269.27        0.29056  (10092919)
       608366.37   4124269.27        0.27076  (10092919)               608401.37
 4124269.27        0.23423  (13102220)
       608436.37   4124269.27        0.19438  (13102220)               608471.37
 4124269.27        0.13863  (13102220)
       608506.37   4124269.27        0.12929  (09083006)               608226.37
 4124304.27        0.33303  (10092919)
       608261.37   4124304.27        0.25973  (10092919)               608296.37
 4124304.27        0.29387  (09083006)
       608331.37   4124304.27        0.28540  (09083006)               608366.37
 4124304.27        0.23988  (09083006)
       608401.37   4124304.27        0.19650  (09083006)               608436.37
 4124304.27        0.16031  (13043021)
       608471.37   4124304.27        0.14035  (13043021)               608506.37
 4124304.27        0.13423  (13043021)
       608332.18   4124334.30        0.25846  (13103118)               608367.18
 4124334.30        0.20930  (13103118)
       608402.18   4124334.30        0.17041  (13103118)

 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Cons ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                       ***        22:42:39

                                  PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     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    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
608331.37	4124129.27	0.02512b (13110424)	608366.37	4124129.27	0.02248m (13041424)
608401.37	4124129.27	0.02001m (13041424)	608436.37	4124129.27	0.01727b (13102224)
608471.37	4124129.27	0.01958b (13102224)	608506.37	4124129.27	0.01922b (11121824)
607911.37	4124164.27	0.01965b (13122824)	607946.37	4124164.27	0.02306b (13122824)
607981.37	4124164.27	0.02515b (13122824)	608016.37	4124164.27	0.02464b (13122824)
608296.37	4124164.27	0.03173m (13091424)	608331.37	4124164.27	0.02790m (13041424)
608366.37	4124164.27	0.02373m (13041424)	608401.37	4124164.27	0.02081b (13102224)
608436.37	4124164.27	0.01823b (13102224)	608471.37	4124164.27	0.02191b (13102224)
608506.37	4124164.27	0.02022b (11121824)	607911.37	4124199.27	0.02578b (09012824)
607946.37	4124199.27	0.02699b (11013024)	607981.37	4124199.27	0.03046b (13122824)
608016.37	4124199.27	0.03274b (13122824)	608296.37	4124199.27	0.03514m (13041424)
608331.37	4124199.27	0.02953b (13102224)	608366.37	4124199.27	0.02509b (13102224)
608401.37	4124199.27	0.02119b (13102224)	608436.37	4124199.27	0.02486b (13102224)
608471.37	4124199.27	0.02173b (11121824)	608506.37	4124199.27	0.01675b (11121824)
607946.37	4124234.27	0.03780m (10121924)	607981.37	4124234.27	0.04224b (11013024)
608016.37	4124234.27	0.04776b (11013024)	608261.37	4124234.27	0.04639b (13102224)
608296.37	4124234.27	0.03730b (13102224)	608331.37	4124234.27	0.02998b (13102224)
608366.37	4124234.27	0.03185b (13102224)	608401.37	4124234.27	0.02796b (13102224)
608436.37	4124234.27	0.02379b (13102224)	608471.37	4124234.27	0.01757b (11101124)
608506.37	4124234.27	0.01343b (11101124)	607946.37	4124269.27	0.05714m (10121924)

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       608226.37   4124269.27        0.06448m (10020724)               608261.37
 4124269.27        0.04704m (10020724)
       608296.37   4124269.27        0.03567m (10020724)               608331.37
 4124269.27        0.03550b (13102224)
       608366.37   4124269.27        0.02935b (13102224)               608401.37
 4124269.27        0.02537b (13043024)
       608436.37   4124269.27        0.02205b (13043024)               608471.37
 4124269.27        0.01724b (13043024)
       608506.37   4124269.27        0.01464b (13043024)               608226.37
 4124304.27        0.06317m (10020724)
       608261.37   4124304.27        0.04429m (10020724)               608296.37
 4124304.27        0.04298b (13043024)
       608331.37   4124304.27        0.03879b (13043024)               608366.37
 4124304.27        0.03265b (13043024)
       608401.37   4124304.27        0.02716b (13043024)               608436.37
 4124304.27        0.02231b (13043024)
       608471.37   4124304.27        0.01858b (13043024)               608506.37
 4124304.27        0.01644b (13043024)
       608332.18   4124334.30        0.03678b (13043024)               608367.18
 4124334.30        0.02962b (13043024)
       608402.18   4124334.30        0.02380b (13043024)

 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Cons ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                        ***        22:42:39

                                   PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43872
HRS) RESULTS ***


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


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

ALL       1ST HIGHEST VALUE IS       0.04662 AT (  608226.37,  4124304.27,
63.61,   284.01,    0.00)  DC
          2ND HIGHEST VALUE IS       0.04621 AT (  608226.37,  4124269.27,
63.66,   284.01,    0.00)  DC
          3RD HIGHEST VALUE IS       0.03326 AT (  608261.37,  4124269.27,
63.71,   284.01,    0.00)  DC
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          4TH HIGHEST VALUE IS       0.03239 AT (  608261.37,  4124304.27,
64.14,   284.01,    0.00)  DC
          5TH HIGHEST VALUE IS       0.03023 AT (  608261.37,  4124234.27,
63.78,   284.01,    0.00)  DC
          6TH HIGHEST VALUE IS       0.02546 AT (  608296.37,  4124304.27,
67.11,   284.01,    0.00)  DC
          7TH HIGHEST VALUE IS       0.02502 AT (  608296.37,  4124269.27,
65.34,   284.01,    0.00)  DC
          8TH HIGHEST VALUE IS       0.02386 AT (  608296.37,  4124234.27,
64.59,   284.01,    0.00)  DC
          9TH HIGHEST VALUE IS       0.02108 AT (  608331.37,  4124269.27,
67.89,   284.01,    0.00)  DC
         10TH HIGHEST VALUE IS       0.02102 AT (  608296.37,  4124199.27,
64.63,   284.01,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↟ *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Const_2023\469_Piercy_Cons ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                       ***        22:42:39

                                  PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


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

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

ALL      HIGH   1ST HIGH VALUE IS       0.41028  ON 11121718: AT (  608016.37,
4124234.27,    61.75,   284.01,    0.00)  DC


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

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

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

GROUP ID	AVERAGE	CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)
ALL	HIGH	1ST HIGH VALUE IS	0.06448m	ON 10020724:	AT (608226.37, 4124269.27, 63.66, 284.01, 0.00) DC

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

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

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

 A Total of   0 Fatal Error Message(s)
 A Total of   0 Warning Message(s)
 A Total of   29124 Informational Message(s)

 A Total of   43872 Hours Were Processed

 A Total of   7247 Calm Hours Identified

A Total of 21877 Missing Hours Identified (49.87 Percent)

CAUTION!: Number of Missing Hours Exceeds 10 Percent of Total!
Data May Not Be Acceptable for Regulatory Applications.
See Section 5.3.2 of "Meteorological Monitoring Guidance
for Regulatory Modeling Applications" (EPA-454/R-99-005).

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

******** WARNING MESSAGES ********
*** NONE ***

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

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 3/14/2023
** File: C:\Lakes\AERMOD View\Piercy Rd\469_Piercy_Ops_2023\469_Piercy_Ops_2023.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Piercy Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 1928000 Santa_Clara_County
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL 469_Piercy_Ops_2023.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 = SLINE2
** DESCRSRC Hauling Hellyer
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 5.21E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 608163.676, 4124086.255, 63.21, 3.11, 3.95
** 608062.858, 4124213.374, 61.89, 3.11, 3.95
** 608032.174, 4124277.664, 61.73, 3.11, 3.95
** 607839.304, 4124460.306, 61.54, 3.11, 3.95
```

```
** ------------------------------------------------------------------
   LOCATION L0002270     VOLUME   608161.035 4124089.585 63.07
   LOCATION L0002271     VOLUME   608155.753 4124096.245 63.04
   LOCATION L0002272     VOLUME   608150.471 4124102.904 63.00
   LOCATION L0002273     VOLUME   608145.190 4124109.564 62.97
   LOCATION L0002274     VOLUME   608139.908 4124116.224 62.88
   LOCATION L0002275     VOLUME   608134.626 4124122.884 62.78
   LOCATION L0002276     VOLUME   608129.344 4124129.543 62.71
   LOCATION L0002277     VOLUME   608124.062 4124136.203 62.63
   LOCATION L0002278     VOLUME   608118.780 4124142.863 62.60
   LOCATION L0002279     VOLUME   608113.498 4124149.523 62.51
   LOCATION L0002280     VOLUME   608108.217 4124156.182 62.48
   LOCATION L0002281     VOLUME   608102.935 4124162.842 62.43
   LOCATION L0002282     VOLUME   608097.653 4124169.502 62.38
   LOCATION L0002283     VOLUME   608092.371 4124176.162 62.34
   LOCATION L0002284     VOLUME   608087.089 4124182.821 62.25
   LOCATION L0002285     VOLUME   608081.807 4124189.481 62.16
   LOCATION L0002286     VOLUME   608076.525 4124196.141 62.06
   LOCATION L0002287     VOLUME   608071.244 4124202.800 61.98
   LOCATION L0002288     VOLUME   608065.962 4124209.460 61.92
   LOCATION L0002289     VOLUME   608061.348 4124216.537 61.88
   LOCATION L0002290     VOLUME   608057.687 4124224.208 61.85
   LOCATION L0002291     VOLUME   608054.026 4124231.879 61.81
   LOCATION L0002292     VOLUME   608050.364 4124239.550 61.76
   LOCATION L0002293     VOLUME   608046.703 4124247.221 61.74
   LOCATION L0002294     VOLUME   608043.042 4124254.892 61.74
   LOCATION L0002295     VOLUME   608039.381 4124262.563 61.74
   LOCATION L0002296     VOLUME   608035.720 4124270.235 61.74
   LOCATION L0002297     VOLUME   608031.979 4124277.848 61.76
   LOCATION L0002298     VOLUME   608025.808 4124283.693 61.78
   LOCATION L0002299     VOLUME   608019.636 4124289.537 61.80
   LOCATION L0002300     VOLUME   608013.464 4124295.382 61.80
   LOCATION L0002301     VOLUME   608007.292 4124301.226 61.80
   LOCATION L0002302     VOLUME   608001.120 4124307.071 61.79
   LOCATION L0002303     VOLUME   607994.948 4124312.915 61.77
   LOCATION L0002304     VOLUME   607988.777 4124318.760 61.76
   LOCATION L0002305     VOLUME   607982.605 4124324.604 61.75
   LOCATION L0002306     VOLUME   607976.433 4124330.449 61.74
   LOCATION L0002307     VOLUME   607970.261 4124336.293 61.75
   LOCATION L0002308     VOLUME   607964.089 4124342.138 61.80
   LOCATION L0002309     VOLUME   607957.917 4124347.982 61.85
   LOCATION L0002310     VOLUME   607951.746 4124353.827 61.92
   LOCATION L0002311     VOLUME   607945.574 4124359.672 61.95
   LOCATION L0002312     VOLUME   607939.402 4124365.516 61.92
   LOCATION L0002313     VOLUME   607933.230 4124371.361 61.85
   LOCATION L0002314     VOLUME   607927.058 4124377.205 61.75
   LOCATION L0002315     VOLUME   607920.886 4124383.050 61.68
   LOCATION L0002316     VOLUME   607914.715 4124388.894 61.65
   LOCATION L0002317     VOLUME   607908.543 4124394.739 61.62
   LOCATION L0002318     VOLUME   607902.371 4124400.583 61.61
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   LOCATION L0002319     VOLUME   607896.199 4124406.428 61.62
   LOCATION L0002320     VOLUME   607890.027 4124412.272 61.64
   LOCATION L0002321     VOLUME   607883.856 4124418.117 61.66
   LOCATION L0002322     VOLUME   607877.684 4124423.961 61.68
   LOCATION L0002323     VOLUME   607871.512 4124429.806 61.70
   LOCATION L0002324     VOLUME   607865.340 4124435.650 61.69
   LOCATION L0002325     VOLUME   607859.168 4124441.495 61.67
   LOCATION L0002326     VOLUME   607852.996 4124447.340 61.64
   LOCATION L0002327     VOLUME   607846.825 4124453.184 61.59
   LOCATION L0002328     VOLUME   607840.653 4124459.029 61.54
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Hauling Silver Creek
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 8.88E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 9
** 607874.371, 4124716.005, 77.54, 3.11, 3.95
** 607915.283, 4124634.181, 66.57, 3.11, 3.95
** 607912.361, 4124562.585, 63.69, 3.11, 3.95
** 607890.444, 4124483.684, 62.22, 3.11, 3.95
** 607864.143, 4124458.845, 61.70, 3.11, 3.95
** 607741.408, 4124306.887, 61.99, 3.11, 3.95
** 607599.678, 4124169.540, 61.67, 3.11, 3.95
** 607457.948, 4124099.405, 62.19, 3.11, 3.95
** 607438.953, 4124097.944, 62.21, 3.11, 3.95
** ----------------------------------------------------------------
   LOCATION L0002170     VOLUME   607876.272 4124712.203 74.87
   LOCATION L0002171     VOLUME   607880.073 4124704.601 74.03
   LOCATION L0002172     VOLUME   607883.874 4124696.998 73.28
   LOCATION L0002173     VOLUME   607887.676 4124689.395 72.56
   LOCATION L0002174     VOLUME   607891.477 4124681.793 71.84
   LOCATION L0002175     VOLUME   607895.278 4124674.190 71.09
   LOCATION L0002176     VOLUME   607899.080 4124666.587 70.60
   LOCATION L0002177     VOLUME   607902.881 4124658.985 70.12
   LOCATION L0002178     VOLUME   607906.682 4124651.382 69.57
   LOCATION L0002179     VOLUME   607910.484 4124643.780 68.95
   LOCATION L0002180     VOLUME   607914.285 4124636.177 68.45
   LOCATION L0002181     VOLUME   607915.027 4124627.918 67.79
   LOCATION L0002182     VOLUME   607914.681 4124619.425 67.05
   LOCATION L0002183     VOLUME   607914.334 4124610.932 66.30
   LOCATION L0002184     VOLUME   607913.987 4124602.439 65.88
   LOCATION L0002185     VOLUME   607913.641 4124593.946 65.50
   LOCATION L0002186     VOLUME   607913.294 4124585.453 65.12
   LOCATION L0002187     VOLUME   607912.947 4124576.960 64.77
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LOCATION L0002188 VOLUME 607912.601 4124568.467 64.51
LOCATION L0002189 VOLUME 607911.661 4124560.067 64.22
LOCATION L0002190 VOLUME 607909.386 4124551.878 63.83
LOCATION L0002191 VOLUME 607907.111 4124543.688 63.44
LOCATION L0002192 VOLUME 607904.836 4124535.498 63.11
LOCATION L0002193 VOLUME 607902.561 4124527.308 62.86
LOCATION L0002194 VOLUME 607900.286 4124519.118 62.69
LOCATION L0002195 VOLUME 607898.011 4124510.928 62.59
LOCATION L0002196 VOLUME 607895.736 4124502.738 62.45
LOCATION L0002197 VOLUME 607893.462 4124494.548 62.33
LOCATION L0002198 VOLUME 607891.187 4124486.358 62.21
LOCATION L0002199 VOLUME 607886.282 4124479.753 62.04
LOCATION L0002200 VOLUME 607880.102 4124473.917 61.89
LOCATION L0002201 VOLUME 607873.923 4124468.081 61.78
LOCATION L0002202 VOLUME 607867.743 4124462.245 61.73
LOCATION L0002203 VOLUME 607861.914 4124456.084 61.69
LOCATION L0002204 VOLUME 607856.573 4124449.472 61.65
LOCATION L0002205 VOLUME 607851.232 4124442.859 61.64
LOCATION L0002206 VOLUME 607845.891 4124436.247 61.62
LOCATION L0002207 VOLUME 607840.550 4124429.634 61.62
LOCATION L0002208 VOLUME 607835.209 4124423.022 61.62
LOCATION L0002209 VOLUME 607829.868 4124416.409 61.62
LOCATION L0002210 VOLUME 607824.528 4124409.797 61.62
LOCATION L0002211 VOLUME 607819.187 4124403.184 61.66
LOCATION L0002212 VOLUME 607813.846 4124396.572 61.69
LOCATION L0002213 VOLUME 607808.505 4124389.959 61.73
LOCATION L0002214 VOLUME 607803.164 4124383.347 61.78
LOCATION L0002215 VOLUME 607797.823 4124376.734 61.83
LOCATION L0002216 VOLUME 607792.482 4124370.122 61.87
LOCATION L0002217 VOLUME 607787.142 4124363.509 61.90
LOCATION L0002218 VOLUME 607781.801 4124356.897 61.94
LOCATION L0002219 VOLUME 607776.460 4124350.284 61.98
LOCATION L0002220 VOLUME 607771.119 4124343.672 62.00
LOCATION L0002221 VOLUME 607765.778 4124337.059 62.03
LOCATION L0002222 VOLUME 607760.437 4124330.447 62.05
LOCATION L0002223 VOLUME 607755.096 4124323.834 62.05
LOCATION L0002224 VOLUME 607749.755 4124317.222 62.02
LOCATION L0002225 VOLUME 607744.415 4124310.609 61.99
LOCATION L0002226 VOLUME 607738.740 4124304.301 61.97
LOCATION L0002227 VOLUME 607732.636 4124298.386 61.96
LOCATION L0002228 VOLUME 607726.532 4124292.471 61.92
LOCATION L0002229 VOLUME 607720.428 4124286.556 61.88
LOCATION L0002230 VOLUME 607714.324 4124280.640 61.84
LOCATION L0002231 VOLUME 607708.220 4124274.725 61.81
LOCATION L0002232 VOLUME 607702.116 4124268.810 61.79
LOCATION L0002233 VOLUME 607696.012 4124262.895 61.75
LOCATION L0002234 VOLUME 607689.908 4124256.979 61.71
LOCATION L0002235 VOLUME 607683.804 4124251.064 61.67
LOCATION L0002236 VOLUME 607677.700 4124245.149 61.63
LOCATION L0002237 VOLUME 607671.596 4124239.233 61.59

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   LOCATION L0002238     VOLUME   607665.492 4124233.318 61.53
   LOCATION L0002239     VOLUME   607659.387 4124227.403 61.48
   LOCATION L0002240     VOLUME   607653.283 4124221.488 61.46
   LOCATION L0002241     VOLUME   607647.179 4124215.572 61.45
   LOCATION L0002242     VOLUME   607641.075 4124209.657 61.46
   LOCATION L0002243     VOLUME   607634.971 4124203.742 61.48
   LOCATION L0002244     VOLUME   607628.867 4124197.827 61.51
   LOCATION L0002245     VOLUME   607622.763 4124191.911 61.54
   LOCATION L0002246     VOLUME   607616.659 4124185.996 61.58
   LOCATION L0002247     VOLUME   607610.555 4124180.081 61.62
   LOCATION L0002248     VOLUME   607604.451 4124174.165 61.67
   LOCATION L0002249     VOLUME   607598.017 4124168.718 61.69
   LOCATION L0002250     VOLUME   607590.398 4124164.948 61.72
   LOCATION L0002251     VOLUME   607582.780 4124161.178 61.74
   LOCATION L0002252     VOLUME   607575.162 4124157.408 61.77
   LOCATION L0002253     VOLUME   607567.544 4124153.638 61.79
   LOCATION L0002254     VOLUME   607559.925 4124149.869 61.82
   LOCATION L0002255     VOLUME   607552.307 4124146.099 61.84
   LOCATION L0002256     VOLUME   607544.689 4124142.329 61.86
   LOCATION L0002257     VOLUME   607537.071 4124138.559 61.88
   LOCATION L0002258     VOLUME   607529.452 4124134.789 61.91
   LOCATION L0002259     VOLUME   607521.834 4124131.019 61.94
   LOCATION L0002260     VOLUME   607514.216 4124127.249 61.98
   LOCATION L0002261     VOLUME   607506.597 4124123.480 62.02
   LOCATION L0002262     VOLUME   607498.979 4124119.710 62.07
   LOCATION L0002263     VOLUME   607491.361 4124115.940 62.11
   LOCATION L0002264     VOLUME   607483.743 4124112.170 62.15
   LOCATION L0002265     VOLUME   607476.124 4124108.400 62.17
   LOCATION L0002266     VOLUME   607468.506 4124104.630 62.18
   LOCATION L0002267     VOLUME   607460.888 4124100.860 62.22
   LOCATION L0002268     VOLUME   607452.743 4124099.005 62.23
   LOCATION L0002269     VOLUME   607444.268 4124098.353 62.24
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Onsite Truck Circulation
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 5.09E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 607936.839, 4124383.773, 61.90, 3.11, 3.95
** 608000.167, 4124446.657, 62.09, 3.11, 3.95
** 608144.536, 4124305.388, 62.10, 3.11, 3.95
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   LOCATION L0002136     VOLUME   607939.855 4124386.767 62.00
   LOCATION L0002137     VOLUME   607945.886 4124392.757 62.16
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   LOCATION L0002138     VOLUME   607951.918 4124398.746 62.22
   LOCATION L0002139     VOLUME   607957.949 4124404.735 62.20
   LOCATION L0002140     VOLUME   607963.981 4124410.724 62.20
   LOCATION L0002141     VOLUME   607970.012 4124416.714 62.19
   LOCATION L0002142     VOLUME   607976.044 4124422.703 62.16
   LOCATION L0002143     VOLUME   607982.075 4124428.692 62.15
   LOCATION L0002144     VOLUME   607988.107 4124434.681 62.14
   LOCATION L0002145     VOLUME   607994.138 4124440.671 62.14
   LOCATION L0002146     VOLUME   608000.170 4124446.654 62.14
   LOCATION L0002147     VOLUME   608006.245 4124440.710 62.16
   LOCATION L0002148     VOLUME   608012.320 4124434.765 62.13
   LOCATION L0002149     VOLUME   608018.395 4124428.820 62.04
   LOCATION L0002150     VOLUME   608024.471 4124422.875 61.97
   LOCATION L0002151     VOLUME   608030.546 4124416.930 61.95
   LOCATION L0002152     VOLUME   608036.621 4124410.985 61.93
   LOCATION L0002153     VOLUME   608042.697 4124405.041 61.89
   LOCATION L0002154     VOLUME   608048.772 4124399.096 61.86
   LOCATION L0002155     VOLUME   608054.847 4124393.151 61.89
   LOCATION L0002156     VOLUME   608060.922 4124387.206 61.93
   LOCATION L0002157     VOLUME   608066.998 4124381.261 61.93
   LOCATION L0002158     VOLUME   608073.073 4124375.316 61.92
   LOCATION L0002159     VOLUME   608079.148 4124369.372 61.92
   LOCATION L0002160     VOLUME   608085.224 4124363.427 61.91
   LOCATION L0002161     VOLUME   608091.299 4124357.482 61.93
   LOCATION L0002162     VOLUME   608097.374 4124351.537 61.93
   LOCATION L0002163     VOLUME   608103.449 4124345.592 61.97
   LOCATION L0002164     VOLUME   608109.525 4124339.647 61.96
   LOCATION L0002165     VOLUME   608115.600 4124333.703 61.94
   LOCATION L0002166     VOLUME   608121.675 4124327.758 61.95
   LOCATION L0002167     VOLUME   608127.750 4124321.813 62.00
   LOCATION L0002168     VOLUME   608133.826 4124315.868 62.03
   LOCATION L0002169     VOLUME   608139.901 4124309.923 62.06
** End of LINE VOLUME Source ID = SLINE4
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Truck idling
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.1E-09
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 608021.424, 4124402.815, 61.74, 3.11, 3.95
** 608083.865, 4124342.145, 61.85, 3.11, 3.95
** ------------------------------------------------------------------
   LOCATION L0002126     VOLUME   608024.472 4124399.853 61.75
   LOCATION L0002127     VOLUME   608030.568 4124393.930 61.74
   LOCATION L0002128     VOLUME   608036.664 4124388.007 61.76
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   LOCATION L0002129     VOLUME   608042.760 4124382.084 61.79
   LOCATION L0002130     VOLUME   608048.857 4124376.160 61.81
   LOCATION L0002131     VOLUME   608054.953 4124370.237 61.83
   LOCATION L0002132     VOLUME   608061.049 4124364.314 61.81
   LOCATION L0002133     VOLUME   608067.145 4124358.390 61.82
   LOCATION L0002134     VOLUME   608073.242 4124352.467 61.83
   LOCATION L0002135     VOLUME   608079.338 4124346.544 61.86
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Piercy Road Truck
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.19E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 608180.406, 4124324.431, 62.72, 3.11, 3.95
** 608075.894, 4124216.818, 61.97, 3.11, 3.95
** ----------------------------------------------------------------------
   LOCATION L0002329     VOLUME   608177.445 4124321.382 62.76
   LOCATION L0002330     VOLUME   608171.524 4124315.284 62.59
   LOCATION L0002331     VOLUME   608165.602 4124309.187 62.43
   LOCATION L0002332     VOLUME   608159.680 4124303.089 62.32
   LOCATION L0002333     VOLUME   608153.758 4124296.992 62.27
   LOCATION L0002334     VOLUME   608147.836 4124290.894 62.21
   LOCATION L0002335     VOLUME   608141.914 4124284.796 62.18
   LOCATION L0002336     VOLUME   608135.992 4124278.699 62.14
   LOCATION L0002337     VOLUME   608130.070 4124272.601 62.11
   LOCATION L0002338     VOLUME   608124.148 4124266.504 62.09
   LOCATION L0002339     VOLUME   608118.226 4124260.406 62.08
   LOCATION L0002340     VOLUME   608112.304 4124254.308 62.07
   LOCATION L0002341     VOLUME   608106.382 4124248.211 62.04
   LOCATION L0002342     VOLUME   608100.460 4124242.113 62.00
   LOCATION L0002343     VOLUME   608094.538 4124236.016 62.03
   LOCATION L0002344     VOLUME   608088.616 4124229.918 62.05
   LOCATION L0002345     VOLUME   608082.694 4124223.821 62.03
   LOCATION L0002346     VOLUME   608076.772 4124217.723 61.98
** End of LINE VOLUME Source ID = SLINE6
   LOCATION STCK1        POINT      608095.070  4124279.540       61.840
** DESCRSRC Backup Generator
** Source Parameters **
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0002270     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002271     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002272     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002273     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002274     0.000000000883      3.11      3.95      2.89
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SRCPARAM L0002275     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002276     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002277     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002278     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002279     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002280     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002281     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002282     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002283     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002284     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002285     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002286     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002287     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002288     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002289     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002290     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002291     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002292     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002293     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002294     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002295     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002296     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002297     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002298     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002299     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002300     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002301     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002302     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002303     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002304     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002305     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002306     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002307     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002308     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002309     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002310     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002311     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002312     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002313     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002314     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002315     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002316     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002317     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002318     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002319     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002320     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002321     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002322     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002323     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002324     0.000000000883      3.11      3.95      2.89
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   SRCPARAM L0002325     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002326     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002327     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002328     0.000000000883      3.11      3.95      2.89
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** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0002170     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002171     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002172     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002173     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002174     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002175     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002176     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002177     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002178     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002179     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002180     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002181     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002182     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002183     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002184     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002185     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002186     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002187     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002188     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002189     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002190     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002191     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002192     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002193     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002194     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002195     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002196     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002197     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002198     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002199     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002200     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002201     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002202     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002203     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002204     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002205     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002206     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002207     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002208     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002209     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002210     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002211     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002212     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002213     0.000000000888      3.11      3.95      2.89
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SRCPARAM L0002214     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002215     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002216     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002217     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002218     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002219     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002220     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002221     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002222     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002223     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002224     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002225     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002226     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002227     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002228     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002229     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002230     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002231     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002232     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002233     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002234     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002235     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002236     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002237     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002238     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002239     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002240     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002241     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002242     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002243     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002244     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002245     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002246     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002247     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002248     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002249     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002250     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002251     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002252     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002253     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002254     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002255     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002256     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002257     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002258     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002259     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002260     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002261     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002262     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002263     0.000000000888      3.11      3.95      2.89
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   SRCPARAM L0002264     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002265     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002266     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002267     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002268     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002269     0.000000000888      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002136     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002137     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002138     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002139     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002140     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002141     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002142     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002143     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002144     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002145     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002146     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002147     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002148     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002149     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002150     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002151     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002152     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002153     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002154     0.000000001497      3.11      3.95      2.89
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   SRCPARAM L0002162     0.000000001497      3.11      3.95      2.89
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   SRCPARAM L0002166     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002167     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002168     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002169     0.000000001497      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002126     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002127     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002128     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002129     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002130     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002131     0.00000000021      3.11      3.95      2.89
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   SRCPARAM L0002132     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002133     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002134     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002135     0.00000000021      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0002329     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002330     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002331     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002332     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002333     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002334     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002335     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002336     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002337     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002338     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002339     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002340     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002341     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002342     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002343     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002344     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002345     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002346     0.000000001217      3.11      3.95      2.89
** ------------------------------------------------------------------
   SRCPARAM STCK1        0.000130318     5.000   763.850   244.391     0.229

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   SRCGROUP ALL
SO FINISHED
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** AERMOD Receptor Pathway
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RE STARTING
   INCLUDED 469_Piercy_Ops_2023.rou
RE FINISHED
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** AERMOD Meteorology Pathway
****************************************
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ME STARTING
   SURFFILE ..\724946.SFC
   PROFFILE ..\724946.PFL
   SURFDATA 93232 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
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   PROFBASE 40.5 METERS
ME FINISHED
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** AERMOD Output Pathway
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   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST 469_PIERCY_OPS_2023.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST 469_PIERCY_OPS_2023.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL 469_PIERCY_OPS_2023.AD\PE00GALL.PLT 33
   SUMMFILE 469_Piercy_Ops_2023.sum
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** Project Parameters
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 3/14/2023
** File: C:\Lakes\AERMOD View\Piercy Rd\469_Piercy_Ops_2023\469_Piercy_Ops_2023.ADI
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** AERMOD Control Pathway
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CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Piercy Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 1928000 Santa_Clara_County
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL 469_Piercy_Ops_2023.err
CO FINISHED
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** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Hauling Hellyer
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 5.21E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 608163.676, 4124086.255, 63.21, 3.11, 3.95
** 608062.858, 4124213.374, 61.89, 3.11, 3.95
** 608032.174, 4124277.664, 61.73, 3.11, 3.95
** 607839.304, 4124460.306, 61.54, 3.11, 3.95
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   LOCATION L0002273     VOLUME   608145.190 4124109.564 62.97
   LOCATION L0002274     VOLUME   608139.908 4124116.224 62.88
   LOCATION L0002275     VOLUME   608134.626 4124122.884 62.78
   LOCATION L0002276     VOLUME   608129.344 4124129.543 62.71
   LOCATION L0002277     VOLUME   608124.062 4124136.203 62.63
   LOCATION L0002278     VOLUME   608118.780 4124142.863 62.60
   LOCATION L0002279     VOLUME   608113.498 4124149.523 62.51
   LOCATION L0002280     VOLUME   608108.217 4124156.182 62.48
   LOCATION L0002281     VOLUME   608102.935 4124162.842 62.43
   LOCATION L0002282     VOLUME   608097.653 4124169.502 62.38
   LOCATION L0002283     VOLUME   608092.371 4124176.162 62.34
   LOCATION L0002284     VOLUME   608087.089 4124182.821 62.25
   LOCATION L0002285     VOLUME   608081.807 4124189.481 62.16
   LOCATION L0002286     VOLUME   608076.525 4124196.141 62.06
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   LOCATION L0002288     VOLUME   608065.962 4124209.460 61.92
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   LOCATION L0002293     VOLUME   608046.703 4124247.221 61.74
   LOCATION L0002294     VOLUME   608043.042 4124254.892 61.74
   LOCATION L0002295     VOLUME   608039.381 4124262.563 61.74
   LOCATION L0002296     VOLUME   608035.720 4124270.235 61.74
   LOCATION L0002297     VOLUME   608031.979 4124277.848 61.76
   LOCATION L0002298     VOLUME   608025.808 4124283.693 61.78
   LOCATION L0002299     VOLUME   608019.636 4124289.537 61.80
   LOCATION L0002300     VOLUME   608013.464 4124295.382 61.80
   LOCATION L0002301     VOLUME   608007.292 4124301.226 61.80
   LOCATION L0002302     VOLUME   608001.120 4124307.071 61.79
   LOCATION L0002303     VOLUME   607994.948 4124312.915 61.77
   LOCATION L0002304     VOLUME   607988.777 4124318.760 61.76
   LOCATION L0002305     VOLUME   607982.605 4124324.604 61.75
   LOCATION L0002306     VOLUME   607976.433 4124330.449 61.74
   LOCATION L0002307     VOLUME   607970.261 4124336.293 61.75
   LOCATION L0002308     VOLUME   607964.089 4124342.138 61.80
   LOCATION L0002309     VOLUME   607957.917 4124347.982 61.85
   LOCATION L0002310     VOLUME   607951.746 4124353.827 61.92
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   LOCATION L0002319     VOLUME   607896.199 4124406.428 61.62
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   LOCATION L0002322     VOLUME   607877.684 4124423.961 61.68
   LOCATION L0002323     VOLUME   607871.512 4124429.806 61.70
   LOCATION L0002324     VOLUME   607865.340 4124435.650 61.69
   LOCATION L0002325     VOLUME   607859.168 4124441.495 61.67
   LOCATION L0002326     VOLUME   607852.996 4124447.340 61.64
   LOCATION L0002327     VOLUME   607846.825 4124453.184 61.59
   LOCATION L0002328     VOLUME   607840.653 4124459.029 61.54
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Hauling Silver Creek
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 8.88E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 9
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** 607912.361, 4124562.585, 63.69, 3.11, 3.95
** 607890.444, 4124483.684, 62.22, 3.11, 3.95
** 607864.143, 4124458.845, 61.70, 3.11, 3.95
** 607741.408, 4124306.887, 61.99, 3.11, 3.95
** 607599.678, 4124169.540, 61.67, 3.11, 3.95
** 607457.948, 4124099.405, 62.19, 3.11, 3.95
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   LOCATION L0002173     VOLUME   607887.676 4124689.395 72.56
   LOCATION L0002174     VOLUME   607891.477 4124681.793 71.84
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   LOCATION L0002176     VOLUME   607899.080 4124666.587 70.60
   LOCATION L0002177     VOLUME   607902.881 4124658.985 70.12
   LOCATION L0002178     VOLUME   607906.682 4124651.382 69.57
   LOCATION L0002179     VOLUME   607910.484 4124643.780 68.95
   LOCATION L0002180     VOLUME   607914.285 4124636.177 68.45
   LOCATION L0002181     VOLUME   607915.027 4124627.918 67.79
   LOCATION L0002182     VOLUME   607914.681 4124619.425 67.05
   LOCATION L0002183     VOLUME   607914.334 4124610.932 66.30
   LOCATION L0002184     VOLUME   607913.987 4124602.439 65.88
   LOCATION L0002185     VOLUME   607913.641 4124593.946 65.50
   LOCATION L0002186     VOLUME   607913.294 4124585.453 65.12
   LOCATION L0002187     VOLUME   607912.947 4124576.960 64.77
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LOCATION L0002188 VOLUME 607912.601 4124568.467 64.51
LOCATION L0002189 VOLUME 607911.661 4124560.067 64.22
LOCATION L0002190 VOLUME 607909.386 4124551.878 63.83
LOCATION L0002191 VOLUME 607907.111 4124543.688 63.44
LOCATION L0002192 VOLUME 607904.836 4124535.498 63.11
LOCATION L0002193 VOLUME 607902.561 4124527.308 62.86
LOCATION L0002194 VOLUME 607900.286 4124519.118 62.69
LOCATION L0002195 VOLUME 607898.011 4124510.928 62.59
LOCATION L0002196 VOLUME 607895.736 4124502.738 62.45
LOCATION L0002197 VOLUME 607893.462 4124494.548 62.33
LOCATION L0002198 VOLUME 607891.187 4124486.358 62.21
LOCATION L0002199 VOLUME 607886.282 4124479.753 62.04
LOCATION L0002200 VOLUME 607880.102 4124473.917 61.89
LOCATION L0002201 VOLUME 607873.923 4124468.081 61.78
LOCATION L0002202 VOLUME 607867.743 4124462.245 61.73
LOCATION L0002203 VOLUME 607861.914 4124456.084 61.69
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LOCATION L0002205 VOLUME 607851.232 4124442.859 61.64
LOCATION L0002206 VOLUME 607845.891 4124436.247 61.62
LOCATION L0002207 VOLUME 607840.550 4124429.634 61.62
LOCATION L0002208 VOLUME 607835.209 4124423.022 61.62
LOCATION L0002209 VOLUME 607829.868 4124416.409 61.62
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LOCATION L0002214 VOLUME 607803.164 4124383.347 61.78
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LOCATION L0002216 VOLUME 607792.482 4124370.122 61.87
LOCATION L0002217 VOLUME 607787.142 4124363.509 61.90
LOCATION L0002218 VOLUME 607781.801 4124356.897 61.94
LOCATION L0002219 VOLUME 607776.460 4124350.284 61.98
LOCATION L0002220 VOLUME 607771.119 4124343.672 62.00
LOCATION L0002221 VOLUME 607765.778 4124337.059 62.03
LOCATION L0002222 VOLUME 607760.437 4124330.447 62.05
LOCATION L0002223 VOLUME 607755.096 4124323.834 62.05
LOCATION L0002224 VOLUME 607749.755 4124317.222 62.02
LOCATION L0002225 VOLUME 607744.415 4124310.609 61.99
LOCATION L0002226 VOLUME 607738.740 4124304.301 61.97
LOCATION L0002227 VOLUME 607732.636 4124298.386 61.96
LOCATION L0002228 VOLUME 607726.532 4124292.471 61.92
LOCATION L0002229 VOLUME 607720.428 4124286.556 61.88
LOCATION L0002230 VOLUME 607714.324 4124280.640 61.84
LOCATION L0002231 VOLUME 607708.220 4124274.725 61.81
LOCATION L0002232 VOLUME 607702.116 4124268.810 61.79
LOCATION L0002233 VOLUME 607696.012 4124262.895 61.75
LOCATION L0002234 VOLUME 607689.908 4124256.979 61.71
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LOCATION L0002236 VOLUME 607677.700 4124245.149 61.63
LOCATION L0002237 VOLUME 607671.596 4124239.233 61.59

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   LOCATION L0002252     VOLUME   607575.162 4124157.408 61.77
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   LOCATION L0002255     VOLUME   607552.307 4124146.099 61.84
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   LOCATION L0002258     VOLUME   607529.452 4124134.789 61.91
   LOCATION L0002259     VOLUME   607521.834 4124131.019 61.94
   LOCATION L0002260     VOLUME   607514.216 4124127.249 61.98
   LOCATION L0002261     VOLUME   607506.597 4124123.480 62.02
   LOCATION L0002262     VOLUME   607498.979 4124119.710 62.07
   LOCATION L0002263     VOLUME   607491.361 4124115.940 62.11
   LOCATION L0002264     VOLUME   607483.743 4124112.170 62.15
   LOCATION L0002265     VOLUME   607476.124 4124108.400 62.17
   LOCATION L0002266     VOLUME   607468.506 4124104.630 62.18
   LOCATION L0002267     VOLUME   607460.888 4124100.860 62.22
   LOCATION L0002268     VOLUME   607452.743 4124099.005 62.23
   LOCATION L0002269     VOLUME   607444.268 4124098.353 62.24
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Onsite Truck Circulation
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 5.09E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 607936.839, 4124383.773, 61.90, 3.11, 3.95
** 608000.167, 4124446.657, 62.09, 3.11, 3.95
** 608144.536, 4124305.388, 62.10, 3.11, 3.95
** ----------------------------------------------------------------
   LOCATION L0002136     VOLUME   607939.855 4124386.767 62.00
   LOCATION L0002137     VOLUME   607945.886 4124392.757 62.16
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   LOCATION L0002138     VOLUME   607951.918 4124398.746 62.22
   LOCATION L0002139     VOLUME   607957.949 4124404.735 62.20
   LOCATION L0002140     VOLUME   607963.981 4124410.724 62.20
   LOCATION L0002141     VOLUME   607970.012 4124416.714 62.19
   LOCATION L0002142     VOLUME   607976.044 4124422.703 62.16
   LOCATION L0002143     VOLUME   607982.075 4124428.692 62.15
   LOCATION L0002144     VOLUME   607988.107 4124434.681 62.14
   LOCATION L0002145     VOLUME   607994.138 4124440.671 62.14
   LOCATION L0002146     VOLUME   608000.170 4124446.654 62.14
   LOCATION L0002147     VOLUME   608006.245 4124440.710 62.16
   LOCATION L0002148     VOLUME   608012.320 4124434.765 62.13
   LOCATION L0002149     VOLUME   608018.395 4124428.820 62.04
   LOCATION L0002150     VOLUME   608024.471 4124422.875 61.97
   LOCATION L0002151     VOLUME   608030.546 4124416.930 61.95
   LOCATION L0002152     VOLUME   608036.621 4124410.985 61.93
   LOCATION L0002153     VOLUME   608042.697 4124405.041 61.89
   LOCATION L0002154     VOLUME   608048.772 4124399.096 61.86
   LOCATION L0002155     VOLUME   608054.847 4124393.151 61.89
   LOCATION L0002156     VOLUME   608060.922 4124387.206 61.93
   LOCATION L0002157     VOLUME   608066.998 4124381.261 61.93
   LOCATION L0002158     VOLUME   608073.073 4124375.316 61.92
   LOCATION L0002159     VOLUME   608079.148 4124369.372 61.92
   LOCATION L0002160     VOLUME   608085.224 4124363.427 61.91
   LOCATION L0002161     VOLUME   608091.299 4124357.482 61.93
   LOCATION L0002162     VOLUME   608097.374 4124351.537 61.93
   LOCATION L0002163     VOLUME   608103.449 4124345.592 61.97
   LOCATION L0002164     VOLUME   608109.525 4124339.647 61.96
   LOCATION L0002165     VOLUME   608115.600 4124333.703 61.94
   LOCATION L0002166     VOLUME   608121.675 4124327.758 61.95
   LOCATION L0002167     VOLUME   608127.750 4124321.813 62.00
   LOCATION L0002168     VOLUME   608133.826 4124315.868 62.03
   LOCATION L0002169     VOLUME   608139.901 4124309.923 62.06
** End of LINE VOLUME Source ID = SLINE4
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Truck idling
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.1E-09
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 608021.424, 4124402.815, 61.74, 3.11, 3.95
** 608083.865, 4124342.145, 61.85, 3.11, 3.95
** ------------------------------------------------------------------
   LOCATION L0002126     VOLUME   608024.472 4124399.853 61.75
   LOCATION L0002127     VOLUME   608030.568 4124393.930 61.74
   LOCATION L0002128     VOLUME   608036.664 4124388.007 61.76
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   LOCATION L0002129     VOLUME   608042.760 4124382.084 61.79
   LOCATION L0002130     VOLUME   608048.857 4124376.160 61.81
   LOCATION L0002131     VOLUME   608054.953 4124370.237 61.83
   LOCATION L0002132     VOLUME   608061.049 4124364.314 61.81
   LOCATION L0002133     VOLUME   608067.145 4124358.390 61.82
   LOCATION L0002134     VOLUME   608073.242 4124352.467 61.83
   LOCATION L0002135     VOLUME   608079.338 4124346.544 61.86
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Piercy Road Truck
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.19E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 608180.406, 4124324.431, 62.72, 3.11, 3.95
** 608075.894, 4124216.818, 61.97, 3.11, 3.95
** ----------------------------------------------------------------------
   LOCATION L0002329     VOLUME   608177.445 4124321.382 62.76
   LOCATION L0002330     VOLUME   608171.524 4124315.284 62.59
   LOCATION L0002331     VOLUME   608165.602 4124309.187 62.43
   LOCATION L0002332     VOLUME   608159.680 4124303.089 62.32
   LOCATION L0002333     VOLUME   608153.758 4124296.992 62.27
   LOCATION L0002334     VOLUME   608147.836 4124290.894 62.21
   LOCATION L0002335     VOLUME   608141.914 4124284.796 62.18
   LOCATION L0002336     VOLUME   608135.992 4124278.699 62.14
   LOCATION L0002337     VOLUME   608130.070 4124272.601 62.11
   LOCATION L0002338     VOLUME   608124.148 4124266.504 62.09
   LOCATION L0002339     VOLUME   608118.226 4124260.406 62.08
   LOCATION L0002340     VOLUME   608112.304 4124254.308 62.07
   LOCATION L0002341     VOLUME   608106.382 4124248.211 62.04
   LOCATION L0002342     VOLUME   608100.460 4124242.113 62.00
   LOCATION L0002343     VOLUME   608094.538 4124236.016 62.03
   LOCATION L0002344     VOLUME   608088.616 4124229.918 62.05
   LOCATION L0002345     VOLUME   608082.694 4124223.821 62.03
   LOCATION L0002346     VOLUME   608076.772 4124217.723 61.98
** End of LINE VOLUME Source ID = SLINE6
   LOCATION STCK1        POINT      608095.070  4124279.540       61.840
** DESCRSRC Backup Generator
** Source Parameters **
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0002270     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002271     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002272     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002273     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002274     0.000000000883      3.11      3.95      2.89
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SRCPARAM L0002275     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002276     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002277     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002278     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002279     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002280     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002281     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002282     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002283     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002284     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002285     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002286     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002287     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002288     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002289     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002290     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002291     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002292     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002293     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002294     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002295     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002296     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002297     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002298     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002299     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002300     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002301     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002302     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002303     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002304     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002305     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002306     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002307     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002308     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002309     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002310     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002311     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002312     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002313     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002314     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002315     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002316     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002317     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002318     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002319     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002320     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002321     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002322     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002323     0.000000000883      3.11      3.95      2.89
SRCPARAM L0002324     0.000000000883      3.11      3.95      2.89
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   SRCPARAM L0002325     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002326     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002327     0.000000000883      3.11      3.95      2.89
   SRCPARAM L0002328     0.000000000883      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0002170     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002171     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002172     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002173     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002174     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002175     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002176     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002177     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002178     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002179     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002180     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002181     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002182     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002183     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002184     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002185     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002186     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002187     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002188     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002189     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002190     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002191     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002192     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002193     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002194     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002195     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002196     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002197     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002198     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002199     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002200     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002201     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002202     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002203     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002204     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002205     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002206     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002207     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002208     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002209     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002210     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002211     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002212     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002213     0.000000000888      3.11      3.95      2.89
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SRCPARAM L0002214     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002215     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002216     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002217     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002218     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002219     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002220     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002221     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002222     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002223     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002224     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002225     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002226     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002227     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002228     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002229     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002230     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002231     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002232     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002233     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002234     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002235     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002236     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002237     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002238     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002239     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002240     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002241     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002242     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002243     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002244     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002245     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002246     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002247     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002248     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002249     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002250     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002251     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002252     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002253     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002254     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002255     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002256     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002257     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002258     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002259     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002260     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002261     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002262     0.000000000888      3.11      3.95      2.89
SRCPARAM L0002263     0.000000000888      3.11      3.95      2.89
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   SRCPARAM L0002264     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002265     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002266     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002267     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002268     0.000000000888      3.11      3.95      2.89
   SRCPARAM L0002269     0.000000000888      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002136     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002137     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002138     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002139     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002140     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002141     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002142     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002143     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002144     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002145     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002146     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002147     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002148     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002149     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002150     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002151     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002152     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002153     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002154     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002155     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002156     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002157     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002158     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002159     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002160     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002161     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002162     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002163     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002164     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002165     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002166     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002167     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002168     0.000000001497      3.11      3.95      2.89
   SRCPARAM L0002169     0.000000001497      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002126     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002127     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002128     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002129     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002130     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002131     0.00000000021      3.11      3.95      2.89
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   SRCPARAM L0002132     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002133     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002134     0.00000000021      3.11      3.95      2.89
   SRCPARAM L0002135     0.00000000021      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0002329     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002330     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002331     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002332     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002333     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002334     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002335     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002336     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002337     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002338     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002339     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002340     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002341     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002342     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002343     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002344     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002345     0.000000001217      3.11      3.95      2.89
   SRCPARAM L0002346     0.000000001217      3.11      3.95      2.89
** ------------------------------------------------------------------
   SRCPARAM STCK1        0.000130318     5.000   763.850   244.391     0.229
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED 469_Piercy_Ops_2023.rou
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE ..\724946.SFC
   PROFFILE ..\724946.PFL
   SURFDATA 93232 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 40.5 METERS
```

```
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST 469_PIERCY_OPS_2023.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST 469_PIERCY_OPS_2023.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL 469_PIERCY_OPS_2023.AD\PE00GALL.PLT 33
   SUMMFILE 469_Piercy_Ops_2023.sum
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 SO W320     576        PPARM: Input Parameter May Be Out-of-Range for Parameter
        VS

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

↟ *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20 ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                        ***        23:16:45

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                             ***     MODEL SETUP OPTIONS SUMMARY
  ***
```

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 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   222 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   1928000.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_2.5

 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
     and Calculates PERIOD Averages

 **This Run Includes:    222 Source(s);       1 Source Group(s); and      61
Receptor(s)

                with:      1 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    221 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 a total of     0 line(s)
                 and:      0 SWPOINT source(s)


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

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
```

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

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

 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   40.50 ; Decay
Coef. =   0.000   ; Rot. Angle =   0.0
                  Emission Units = GRAMS/SEC   ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

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

 **Input Runstream File: aermod.inp

 **Output Print File: aermod.out

 **Detailed Error/Message File: 469_Piercy_Ops_2023.err

 **File for Summary of Results: 469_Piercy_Ops_2023.sum

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                                                *** POINT SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   STACK   STACK
STACK   STACK   BLDG   URBAN CAP/ EMIS RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT TEMP.
EXIT VEL. DIAMETER EXISTS SOURCE HOR   SCALAR
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (DEG.K)
(M/SEC) (METERS)   VARY BY
 -
- -

 STCK1   0   0.13032E-03 608095.1 4124279.5   61.8   5.00   763.85
244.39   0.23   NO   YES   NO

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** 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
L0002270	0	0.88300E-09	608161.0	4124089.6	63.1	3.11	3.95	2.89	YES	
L0002271	0	0.88300E-09	608155.8	4124096.2	63.0	3.11	3.95	2.89	YES	
L0002272	0	0.88300E-09	608150.5	4124102.9	63.0	3.11	3.95	2.89	YES	
L0002273	0	0.88300E-09	608145.2	4124109.6	63.0	3.11	3.95	2.89	YES	
L0002274	0	0.88300E-09	608139.9	4124116.2	62.9	3.11	3.95	2.89	YES	
L0002275	0	0.88300E-09	608134.6	4124122.9	62.8	3.11	3.95	2.89	YES	
L0002276	0	0.88300E-09	608129.3	4124129.5	62.7	3.11	3.95	2.89	YES	
L0002277	0	0.88300E-09	608124.1	4124136.2	62.6	3.11	3.95	2.89	YES	
L0002278	0	0.88300E-09	608118.8	4124142.9	62.6	3.11	3.95	2.89	YES	
L0002279	0	0.88300E-09	608113.5	4124149.5	62.5	3.11	3.95	2.89	YES	
L0002280	0	0.88300E-09	608108.2	4124156.2	62.5	3.11	3.95	2.89	YES	
L0002281	0	0.88300E-09	608102.9	4124162.8	62.4	3.11	3.95	2.89	YES	
L0002282	0	0.88300E-09	608097.7	4124169.5	62.4	3.11	3.95	2.89	YES	
L0002283	0	0.88300E-09	608092.4	4124176.2	62.3	3.11	3.95	2.89	YES	
L0002284	0	0.88300E-09	608087.1	4124182.8	62.2	3.11	3.95	2.89	YES	
L0002285	0	0.88300E-09	608081.8	4124189.5	62.2	3.11	3.95			

```
2.89     YES
 L0002286         0   0.88300E-09  608076.5 4124196.1    62.1     3.11     3.95
2.89     YES
 L0002287         0   0.88300E-09  608071.2 4124202.8    62.0     3.11     3.95
2.89     YES
 L0002288         0   0.88300E-09  608066.0 4124209.5    61.9     3.11     3.95
2.89     YES
 L0002289         0   0.88300E-09  608061.3 4124216.5    61.9     3.11     3.95
2.89     YES
 L0002290         0   0.88300E-09  608057.7 4124224.2    61.8     3.11     3.95
2.89     YES
 L0002291         0   0.88300E-09  608054.0 4124231.9    61.8     3.11     3.95
2.89     YES
 L0002292         0   0.88300E-09  608050.4 4124239.5    61.8     3.11     3.95
2.89     YES
 L0002293         0   0.88300E-09  608046.7 4124247.2    61.7     3.11     3.95
2.89     YES
 L0002294         0   0.88300E-09  608043.0 4124254.9    61.7     3.11     3.95
2.89     YES
 L0002295         0   0.88300E-09  608039.4 4124262.6    61.7     3.11     3.95
2.89     YES
 L0002296         0   0.88300E-09  608035.7 4124270.2    61.7     3.11     3.95
2.89     YES
 L0002297         0   0.88300E-09  608032.0 4124277.8    61.8     3.11     3.95
2.89     YES
 L0002298         0   0.88300E-09  608025.8 4124283.7    61.8     3.11     3.95
2.89     YES
 L0002299         0   0.88300E-09  608019.6 4124289.5    61.8     3.11     3.95
2.89     YES
 L0002300         0   0.88300E-09  608013.5 4124295.4    61.8     3.11     3.95
2.89     YES
 L0002301         0   0.88300E-09  608007.3 4124301.2    61.8     3.11     3.95
2.89     YES
 L0002302         0   0.88300E-09  608001.1 4124307.1    61.8     3.11     3.95
2.89     YES
 L0002303         0   0.88300E-09  607994.9 4124312.9    61.8     3.11     3.95
2.89     YES
 L0002304         0   0.88300E-09  607988.8 4124318.8    61.8     3.11     3.95
2.89     YES
 L0002305         0   0.88300E-09  607982.6 4124324.6    61.8     3.11     3.95
2.89     YES
 L0002306         0   0.88300E-09  607976.4 4124330.4    61.7     3.11     3.95
2.89     YES
 L0002307         0   0.88300E-09  607970.3 4124336.3    61.8     3.11     3.95
2.89     YES
 L0002308         0   0.88300E-09  607964.1 4124342.1    61.8     3.11     3.95
2.89     YES
 L0002309         0   0.88300E-09  607957.9 4124348.0    61.8     3.11     3.95
2.89     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                                                *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002310	0	0.88300E-09	607951.7	4124353.8	61.9	3.11	3.95	2.89	YES	
L0002311	0	0.88300E-09	607945.6	4124359.7	61.9	3.11	3.95	2.89	YES	
L0002312	0	0.88300E-09	607939.4	4124365.5	61.9	3.11	3.95	2.89	YES	
L0002313	0	0.88300E-09	607933.2	4124371.4	61.8	3.11	3.95	2.89	YES	
L0002314	0	0.88300E-09	607927.1	4124377.2	61.8	3.11	3.95	2.89	YES	
L0002315	0	0.88300E-09	607920.9	4124383.0	61.7	3.11	3.95	2.89	YES	
L0002316	0	0.88300E-09	607914.7	4124388.9	61.6	3.11	3.95	2.89	YES	
L0002317	0	0.88300E-09	607908.5	4124394.7	61.6	3.11	3.95	2.89	YES	
L0002318	0	0.88300E-09	607902.4	4124400.6	61.6	3.11	3.95	2.89	YES	
L0002319	0	0.88300E-09	607896.2	4124406.4	61.6	3.11	3.95	2.89	YES	
L0002320	0	0.88300E-09	607890.0	4124412.3	61.6	3.11	3.95	2.89	YES	
L0002321	0	0.88300E-09	607883.9	4124418.1	61.7	3.11	3.95	2.89	YES	
L0002322	0	0.88300E-09	607877.7	4124424.0	61.7	3.11	3.95	2.89	YES	
L0002323	0	0.88300E-09	607871.5	4124429.8	61.7	3.11	3.95	2.89	YES	
L0002324	0	0.88300E-09	607865.3	4124435.6	61.7	3.11	3.95	2.89	YES	
L0002325	0	0.88300E-09	607859.2	4124441.5	61.7	3.11	3.95			

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2.89     YES
 L0002326         0   0.88300E-09  607853.0 4124447.3    61.6     3.11     3.95
2.89     YES
 L0002327         0   0.88300E-09  607846.8 4124453.2    61.6     3.11     3.95
2.89     YES
 L0002328         0   0.88300E-09  607840.7 4124459.0    61.5     3.11     3.95
2.89     YES
 L0002170         0   0.88800E-09  607876.3 4124712.2    74.9     3.11     3.95
2.89     YES
 L0002171         0   0.88800E-09  607880.1 4124704.6    74.0     3.11     3.95
2.89     YES
 L0002172         0   0.88800E-09  607883.9 4124697.0    73.3     3.11     3.95
2.89     YES
 L0002173         0   0.88800E-09  607887.7 4124689.4    72.6     3.11     3.95
2.89     YES
 L0002174         0   0.88800E-09  607891.5 4124681.8    71.8     3.11     3.95
2.89     YES
 L0002175         0   0.88800E-09  607895.3 4124674.2    71.1     3.11     3.95
2.89     YES
 L0002176         0   0.88800E-09  607899.1 4124666.6    70.6     3.11     3.95
2.89     YES
 L0002177         0   0.88800E-09  607902.9 4124659.0    70.1     3.11     3.95
2.89     YES
 L0002178         0   0.88800E-09  607906.7 4124651.4    69.6     3.11     3.95
2.89     YES
 L0002179         0   0.88800E-09  607910.5 4124643.8    69.0     3.11     3.95
2.89     YES
 L0002180         0   0.88800E-09  607914.3 4124636.2    68.5     3.11     3.95
2.89     YES
 L0002181         0   0.88800E-09  607915.0 4124627.9    67.8     3.11     3.95
2.89     YES
 L0002182         0   0.88800E-09  607914.7 4124619.4    67.0     3.11     3.95
2.89     YES
 L0002183         0   0.88800E-09  607914.3 4124610.9    66.3     3.11     3.95
2.89     YES
 L0002184         0   0.88800E-09  607914.0 4124602.4    65.9     3.11     3.95
2.89     YES
 L0002185         0   0.88800E-09  607913.6 4124593.9    65.5     3.11     3.95
2.89     YES
 L0002186         0   0.88800E-09  607913.3 4124585.5    65.1     3.11     3.95
2.89     YES
 L0002187         0   0.88800E-09  607912.9 4124577.0    64.8     3.11     3.95
2.89     YES
 L0002188         0   0.88800E-09  607912.6 4124568.5    64.5     3.11     3.95
2.89     YES
 L0002189         0   0.88800E-09  607911.7 4124560.1    64.2     3.11     3.95
2.89     YES
 L0002190         0   0.88800E-09  607909.4 4124551.9    63.8     3.11     3.95
2.89     YES
↟ *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                                                *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR VARY BY CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0002191	0	0.88800E-09	607907.1	4124543.7	63.4	3.11	3.95	2.89	YES
L0002192	0	0.88800E-09	607904.8	4124535.5	63.1	3.11	3.95	2.89	YES
L0002193	0	0.88800E-09	607902.6	4124527.3	62.9	3.11	3.95	2.89	YES
L0002194	0	0.88800E-09	607900.3	4124519.1	62.7	3.11	3.95	2.89	YES
L0002195	0	0.88800E-09	607898.0	4124510.9	62.6	3.11	3.95	2.89	YES
L0002196	0	0.88800E-09	607895.7	4124502.7	62.4	3.11	3.95	2.89	YES
L0002197	0	0.88800E-09	607893.5	4124494.5	62.3	3.11	3.95	2.89	YES
L0002198	0	0.88800E-09	607891.2	4124486.4	62.2	3.11	3.95	2.89	YES
L0002199	0	0.88800E-09	607886.3	4124479.8	62.0	3.11	3.95	2.89	YES
L0002200	0	0.88800E-09	607880.1	4124473.9	61.9	3.11	3.95	2.89	YES
L0002201	0	0.88800E-09	607873.9	4124468.1	61.8	3.11	3.95	2.89	YES
L0002202	0	0.88800E-09	607867.7	4124462.2	61.7	3.11	3.95	2.89	YES
L0002203	0	0.88800E-09	607861.9	4124456.1	61.7	3.11	3.95	2.89	YES
L0002204	0	0.88800E-09	607856.6	4124449.5	61.6	3.11	3.95	2.89	YES
L0002205	0	0.88800E-09	607851.2	4124442.9	61.6	3.11	3.95	2.89	YES
L0002206	0	0.88800E-09	607845.9	4124436.2	61.6	3.11	3.95		

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2.89     YES
 L0002207         0   0.88800E-09  607840.6 4124429.6    61.6     3.11     3.95
2.89     YES
 L0002208         0   0.88800E-09  607835.2 4124423.0    61.6     3.11     3.95
2.89     YES
 L0002209         0   0.88800E-09  607829.9 4124416.4    61.6     3.11     3.95
2.89     YES
 L0002210         0   0.88800E-09  607824.5 4124409.8    61.6     3.11     3.95
2.89     YES
 L0002211         0   0.88800E-09  607819.2 4124403.2    61.7     3.11     3.95
2.89     YES
 L0002212         0   0.88800E-09  607813.8 4124396.6    61.7     3.11     3.95
2.89     YES
 L0002213         0   0.88800E-09  607808.5 4124390.0    61.7     3.11     3.95
2.89     YES
 L0002214         0   0.88800E-09  607803.2 4124383.3    61.8     3.11     3.95
2.89     YES
 L0002215         0   0.88800E-09  607797.8 4124376.7    61.8     3.11     3.95
2.89     YES
 L0002216         0   0.88800E-09  607792.5 4124370.1    61.9     3.11     3.95
2.89     YES
 L0002217         0   0.88800E-09  607787.1 4124363.5    61.9     3.11     3.95
2.89     YES
 L0002218         0   0.88800E-09  607781.8 4124356.9    61.9     3.11     3.95
2.89     YES
 L0002219         0   0.88800E-09  607776.5 4124350.3    62.0     3.11     3.95
2.89     YES
 L0002220         0   0.88800E-09  607771.1 4124343.7    62.0     3.11     3.95
2.89     YES
 L0002221         0   0.88800E-09  607765.8 4124337.1    62.0     3.11     3.95
2.89     YES
 L0002222         0   0.88800E-09  607760.4 4124330.4    62.0     3.11     3.95
2.89     YES
 L0002223         0   0.88800E-09  607755.1 4124323.8    62.0     3.11     3.95
2.89     YES
 L0002224         0   0.88800E-09  607749.8 4124317.2    62.0     3.11     3.95
2.89     YES
 L0002225         0   0.88800E-09  607744.4 4124310.6    62.0     3.11     3.95
2.89     YES
 L0002226         0   0.88800E-09  607738.7 4124304.3    62.0     3.11     3.95
2.89     YES
 L0002227         0   0.88800E-09  607732.6 4124298.4    62.0     3.11     3.95
2.89     YES
 L0002228         0   0.88800E-09  607726.5 4124292.5    61.9     3.11     3.95
2.89     YES
 L0002229         0   0.88800E-09  607720.4 4124286.6    61.9     3.11     3.95
2.89     YES
 L0002230         0   0.88800E-09  607714.3 4124280.6    61.8     3.11     3.95
2.89     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** 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
L0002231	0	0.88800E-09	607708.2	4124274.7	61.8	3.11	3.95	2.89	YES	
L0002232	0	0.88800E-09	607702.1	4124268.8	61.8	3.11	3.95	2.89	YES	
L0002233	0	0.88800E-09	607696.0	4124262.9	61.8	3.11	3.95	2.89	YES	
L0002234	0	0.88800E-09	607689.9	4124257.0	61.7	3.11	3.95	2.89	YES	
L0002235	0	0.88800E-09	607683.8	4124251.1	61.7	3.11	3.95	2.89	YES	
L0002236	0	0.88800E-09	607677.7	4124245.1	61.6	3.11	3.95	2.89	YES	
L0002237	0	0.88800E-09	607671.6	4124239.2	61.6	3.11	3.95	2.89	YES	
L0002238	0	0.88800E-09	607665.5	4124233.3	61.5	3.11	3.95	2.89	YES	
L0002239	0	0.88800E-09	607659.4	4124227.4	61.5	3.11	3.95	2.89	YES	
L0002240	0	0.88800E-09	607653.3	4124221.5	61.5	3.11	3.95	2.89	YES	
L0002241	0	0.88800E-09	607647.2	4124215.6	61.4	3.11	3.95	2.89	YES	
L0002242	0	0.88800E-09	607641.1	4124209.7	61.5	3.11	3.95	2.89	YES	
L0002243	0	0.88800E-09	607635.0	4124203.7	61.5	3.11	3.95	2.89	YES	
L0002244	0	0.88800E-09	607628.9	4124197.8	61.5	3.11	3.95	2.89	YES	
L0002245	0	0.88800E-09	607622.8	4124191.9	61.5	3.11	3.95	2.89	YES	
L0002246	0	0.88800E-09	607616.7	4124186.0	61.6	3.11	3.95			

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2.89     YES
 L0002247         0   0.88800E-09  607610.6 4124180.1    61.6     3.11     3.95
2.89     YES
 L0002248         0   0.88800E-09  607604.5 4124174.2    61.7     3.11     3.95
2.89     YES
 L0002249         0   0.88800E-09  607598.0 4124168.7    61.7     3.11     3.95
2.89     YES
 L0002250         0   0.88800E-09  607590.4 4124164.9    61.7     3.11     3.95
2.89     YES
 L0002251         0   0.88800E-09  607582.8 4124161.2    61.7     3.11     3.95
2.89     YES
 L0002252         0   0.88800E-09  607575.2 4124157.4    61.8     3.11     3.95
2.89     YES
 L0002253         0   0.88800E-09  607567.5 4124153.6    61.8     3.11     3.95
2.89     YES
 L0002254         0   0.88800E-09  607559.9 4124149.9    61.8     3.11     3.95
2.89     YES
 L0002255         0   0.88800E-09  607552.3 4124146.1    61.8     3.11     3.95
2.89     YES
 L0002256         0   0.88800E-09  607544.7 4124142.3    61.9     3.11     3.95
2.89     YES
 L0002257         0   0.88800E-09  607537.1 4124138.6    61.9     3.11     3.95
2.89     YES
 L0002258         0   0.88800E-09  607529.5 4124134.8    61.9     3.11     3.95
2.89     YES
 L0002259         0   0.88800E-09  607521.8 4124131.0    61.9     3.11     3.95
2.89     YES
 L0002260         0   0.88800E-09  607514.2 4124127.2    62.0     3.11     3.95
2.89     YES
 L0002261         0   0.88800E-09  607506.6 4124123.5    62.0     3.11     3.95
2.89     YES
 L0002262         0   0.88800E-09  607499.0 4124119.7    62.1     3.11     3.95
2.89     YES
 L0002263         0   0.88800E-09  607491.4 4124115.9    62.1     3.11     3.95
2.89     YES
 L0002264         0   0.88800E-09  607483.7 4124112.2    62.1     3.11     3.95
2.89     YES
 L0002265         0   0.88800E-09  607476.1 4124108.4    62.2     3.11     3.95
2.89     YES
 L0002266         0   0.88800E-09  607468.5 4124104.6    62.2     3.11     3.95
2.89     YES
 L0002267         0   0.88800E-09  607460.9 4124100.9    62.2     3.11     3.95
2.89     YES
 L0002268         0   0.88800E-09  607452.7 4124099.0    62.2     3.11     3.95
2.89     YES
 L0002269         0   0.88800E-09  607444.3 4124098.4    62.2     3.11     3.95
2.89     YES
 L0002136         0   0.14970E-08  607939.9 4124386.8    62.0     3.11     3.95
2.89     YES
↟ *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

                                                *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0002137	0	0.14970E-08	607945.9	4124392.8	62.2	3.11	3.95	2.89	YES	
L0002138	0	0.14970E-08	607951.9	4124398.7	62.2	3.11	3.95	2.89	YES	
L0002139	0	0.14970E-08	607957.9	4124404.7	62.2	3.11	3.95	2.89	YES	
L0002140	0	0.14970E-08	607964.0	4124410.7	62.2	3.11	3.95	2.89	YES	
L0002141	0	0.14970E-08	607970.0	4124416.7	62.2	3.11	3.95	2.89	YES	
L0002142	0	0.14970E-08	607976.0	4124422.7	62.2	3.11	3.95	2.89	YES	
L0002143	0	0.14970E-08	607982.1	4124428.7	62.1	3.11	3.95	2.89	YES	
L0002144	0	0.14970E-08	607988.1	4124434.7	62.1	3.11	3.95	2.89	YES	
L0002145	0	0.14970E-08	607994.1	4124440.7	62.1	3.11	3.95	2.89	YES	
L0002146	0	0.14970E-08	608000.2	4124446.7	62.1	3.11	3.95	2.89	YES	
L0002147	0	0.14970E-08	608006.2	4124440.7	62.2	3.11	3.95	2.89	YES	
L0002148	0	0.14970E-08	608012.3	4124434.8	62.1	3.11	3.95	2.89	YES	
L0002149	0	0.14970E-08	608018.4	4124428.8	62.0	3.11	3.95	2.89	YES	
L0002150	0	0.14970E-08	608024.5	4124422.9	62.0	3.11	3.95	2.89	YES	
L0002151	0	0.14970E-08	608030.5	4124416.9	61.9	3.11	3.95	2.89	YES	
L0002152	0	0.14970E-08	608036.6	4124411.0	61.9	3.11	3.95			

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2.89     YES
 L0002153         0   0.14970E-08  608042.7 4124405.0    61.9     3.11     3.95
2.89     YES
 L0002154         0   0.14970E-08  608048.8 4124399.1    61.9     3.11     3.95
2.89     YES
 L0002155         0   0.14970E-08  608054.8 4124393.2    61.9     3.11     3.95
2.89     YES
 L0002156         0   0.14970E-08  608060.9 4124387.2    61.9     3.11     3.95
2.89     YES
 L0002157         0   0.14970E-08  608067.0 4124381.3    61.9     3.11     3.95
2.89     YES
 L0002158         0   0.14970E-08  608073.1 4124375.3    61.9     3.11     3.95
2.89     YES
 L0002159         0   0.14970E-08  608079.1 4124369.4    61.9     3.11     3.95
2.89     YES
 L0002160         0   0.14970E-08  608085.2 4124363.4    61.9     3.11     3.95
2.89     YES
 L0002161         0   0.14970E-08  608091.3 4124357.5    61.9     3.11     3.95
2.89     YES
 L0002162         0   0.14970E-08  608097.4 4124351.5    61.9     3.11     3.95
2.89     YES
 L0002163         0   0.14970E-08  608103.4 4124345.6    62.0     3.11     3.95
2.89     YES
 L0002164         0   0.14970E-08  608109.5 4124339.6    62.0     3.11     3.95
2.89     YES
 L0002165         0   0.14970E-08  608115.6 4124333.7    61.9     3.11     3.95
2.89     YES
 L0002166         0   0.14970E-08  608121.7 4124327.8    61.9     3.11     3.95
2.89     YES
 L0002167         0   0.14970E-08  608127.8 4124321.8    62.0     3.11     3.95
2.89     YES
 L0002168         0   0.14970E-08  608133.8 4124315.9    62.0     3.11     3.95
2.89     YES
 L0002169         0   0.14970E-08  608139.9 4124309.9    62.1     3.11     3.95
2.89     YES
 L0002126         0   0.21000E-09  608024.5 4124399.9    61.8     3.11     3.95
2.89     YES
 L0002127         0   0.21000E-09  608030.6 4124393.9    61.7     3.11     3.95
2.89     YES
 L0002128         0   0.21000E-09  608036.7 4124388.0    61.8     3.11     3.95
2.89     YES
 L0002129         0   0.21000E-09  608042.8 4124382.1    61.8     3.11     3.95
2.89     YES
 L0002130         0   0.21000E-09  608048.9 4124376.2    61.8     3.11     3.95
2.89     YES
 L0002131         0   0.21000E-09  608055.0 4124370.2    61.8     3.11     3.95
2.89     YES
 L0002132         0   0.21000E-09  608061.0 4124364.3    61.8     3.11     3.95
2.89     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR VARY BY CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0002133	0	0.21000E-09	608067.1	4124358.4	61.8	3.11	3.95	2.89	YES
L0002134	0	0.21000E-09	608073.2	4124352.5	61.8	3.11	3.95	2.89	YES
L0002135	0	0.21000E-09	608079.3	4124346.5	61.9	3.11	3.95	2.89	YES
L0002329	0	0.12170E-08	608177.4	4124321.4	62.8	3.11	3.95	2.89	YES
L0002330	0	0.12170E-08	608171.5	4124315.3	62.6	3.11	3.95	2.89	YES
L0002331	0	0.12170E-08	608165.6	4124309.2	62.4	3.11	3.95	2.89	YES
L0002332	0	0.12170E-08	608159.7	4124303.1	62.3	3.11	3.95	2.89	YES
L0002333	0	0.12170E-08	608153.8	4124297.0	62.3	3.11	3.95	2.89	YES
L0002334	0	0.12170E-08	608147.8	4124290.9	62.2	3.11	3.95	2.89	YES
L0002335	0	0.12170E-08	608141.9	4124284.8	62.2	3.11	3.95	2.89	YES
L0002336	0	0.12170E-08	608136.0	4124278.7	62.1	3.11	3.95	2.89	YES
L0002337	0	0.12170E-08	608130.1	4124272.6	62.1	3.11	3.95	2.89	YES
L0002338	0	0.12170E-08	608124.1	4124266.5	62.1	3.11	3.95	2.89	YES
L0002339	0	0.12170E-08	608118.2	4124260.4	62.1	3.11	3.95	2.89	YES
L0002340	0	0.12170E-08	608112.3	4124254.3	62.1	3.11	3.95	2.89	YES
L0002341	0	0.12170E-08	608106.4	4124248.2	62.0	3.11	3.95		

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2.89     YES
 L0002342         0   0.12170E-08  608100.5 4124242.1    62.0     3.11     3.95
2.89     YES
 L0002343         0   0.12170E-08  608094.5 4124236.0    62.0     3.11     3.95
2.89     YES
 L0002344         0   0.12170E-08  608088.6 4124229.9    62.0     3.11     3.95
2.89     YES
 L0002345         0   0.12170E-08  608082.7 4124223.8    62.0     3.11     3.95
2.89     YES
 L0002346         0   0.12170E-08  608076.8 4124217.7    62.0     3.11     3.95
2.89     YES
 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20 ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                        ***        23:16:45

                                   PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                              *** SOURCE IDs DEFINING SOURCE GROUPS
***

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


  ALL        L0002270    , L0002271    , L0002272    , L0002273    , L0002274    ,
L0002275    , L0002276    , L0002277    ,

             L0002278    , L0002279    , L0002280    , L0002281    , L0002282    ,
L0002283    , L0002284    , L0002285    ,

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L0002291    , L0002292    , L0002293    ,

             L0002294    , L0002295    , L0002296    , L0002297    , L0002298    ,
L0002299    , L0002300    , L0002301    ,

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L0002307    , L0002308    , L0002309    ,

             L0002310    , L0002311    , L0002312    , L0002313    , L0002314    ,
L0002315    , L0002316    , L0002317    ,

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L0002323    , L0002324    , L0002325    ,

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L0002172    , L0002173    , L0002174    ,
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L0002188    , L0002189    , L0002190    ,

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L0002196    , L0002197    , L0002198    ,

             L0002199    , L0002200    , L0002201    , L0002202    , L0002203    ,
L0002204    , L0002205    , L0002206    ,

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L0002212    , L0002213    , L0002214    ,

             L0002215    , L0002216    , L0002217    , L0002218    , L0002219    ,
L0002220    , L0002221    , L0002222    ,

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L0002244    , L0002245    , L0002246    ,

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L0002260    , L0002261    , L0002262    ,

             L0002263    , L0002264    , L0002265    , L0002266    , L0002267    ,
L0002268    , L0002269    , L0002136    ,
 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20 ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                       ***        23:16:45

                                   PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

URBAN ID	URBAN POP	SOURCE IDs
	1928000.	L0002270 , L0002271 , L0002272 , L0002273 , L0002274 , L0002275 , L0002276 , L0002277 ,
		L0002278 , L0002279 , L0002280 , L0002281 , L0002282 , L0002283 , L0002284 , L0002285 ,
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L0002299    , L0002300    , L0002301    ,

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L0002307    , L0002308    , L0002309    ,

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L0002315    , L0002316    , L0002317    ,

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L0002323    , L0002324    , L0002325    ,

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L0002172    , L0002173    , L0002174    ,

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L0002180    , L0002181    , L0002182    ,

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L0002188    , L0002189    , L0002190    ,

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L0002196    , L0002197    , L0002198    ,

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L0002212    , L0002213    , L0002214    ,

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L0002220    , L0002221    , L0002222    ,

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L0002228    , L0002229    , L0002230    ,

            L0002231    , L0002232    , L0002233    , L0002234    , L0002235    ,
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            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    ,
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L0002268   , L0002269   , L0002136   ,

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

  URBAN ID   URBAN POP   SOURCE IDs
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             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   , L0002126   , L0002127   , L0002128   , L0002129   , L0002130   , L0002131   , L0002132   ,

             L0002133   , L0002134   , L0002135   , L0002329   , L0002330   , L0002331   , L0002332   , L0002333   ,

             L0002334   , L0002335   , L0002336   , L0002337   , L0002338   , L0002339   , L0002340   , L0002341   ,

             L0002342   , L0002343   , L0002344   , L0002345   , L0002346   , STCK1   ,

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

(METERS)

(608331.4, 4124129.3, 64.3, 284.0, 0.0); (608366.4, 4124129.3, 64.7, 284.0, 0.0);
(608401.4, 4124129.3, 64.6, 284.0, 0.0); (608436.4, 4124129.3, 65.3, 284.0, 0.0);
(608471.4, 4124129.3, 67.3, 284.0, 0.0); (608506.4, 4124129.3, 71.7, 284.0, 0.0);
(607911.4, 4124164.3, 62.4, 284.0, 0.0); (607946.4, 4124164.3, 62.5, 284.0, 0.0);
(607981.4, 4124164.3, 62.4, 284.0, 0.0); (608016.4, 4124164.3, 62.2, 284.0, 0.0);
(608296.4, 4124164.3, 64.3, 284.0, 0.0); (608331.4, 4124164.3, 64.7, 284.0, 0.0);
(608366.4, 4124164.3, 64.8, 284.0, 0.0); (608401.4, 4124164.3, 65.0, 284.0, 0.0);
(608436.4, 4124164.3, 66.4, 284.0, 0.0); (608471.4, 4124164.3, 70.2, 284.0, 0.0);
(608506.4, 4124164.3, 77.2, 284.0, 0.0); (607911.4, 4124199.3, 62.3, 284.0, 0.0);
(607946.4, 4124199.3, 62.2, 284.0, 0.0); (607981.4, 4124199.3, 62.2, 284.0, 0.0);
(608016.4, 4124199.3, 62.1, 284.0, 0.0); (608296.4, 4124199.3, 64.6, 284.0, 0.0);
(608331.4, 4124199.3, 64.8, 284.0, 0.0); (608366.4, 4124199.3, 65.3, 284.0, 0.0);
(608401.4, 4124199.3, 66.7, 284.0, 0.0); (608436.4, 4124199.3, 69.1, 284.0, 0.0);
(608471.4, 4124199.3, 75.0, 284.0, 0.0); (608506.4, 4124199.3, 84.7, 284.0, 0.0);
(607946.4, 4124234.3, 61.9, 284.0, 0.0); (607981.4, 4124234.3, 61.8, 284.0, 0.0);
(608016.4, 4124234.3, 61.8, 284.0, 0.0); (608261.4, 4124234.3, 63.8, 284.0, 0.0);
(608296.4, 4124234.3, 64.6, 284.0, 0.0); (608331.4, 4124234.3, 65.6, 284.0, 0.0);
(608366.4, 4124234.3, 67.4, 284.0, 0.0); (608401.4, 4124234.3, 69.7, 284.0, 0.0);
(608436.4, 4124234.3, 73.1, 284.0, 0.0); (608471.4, 4124234.3, 82.0, 284.0, 0.0);
(608506.4, 4124234.3, 95.2, 284.0, 0.0); (607946.4, 4124269.3, 61.8, 284.0, 0.0);
(608226.4, 4124269.3, 63.7, 284.0, 0.0); (608261.4, 4124269.3, 63.7, 284.0, 0.0);
(608296.4, 4124269.3, 65.3, 284.0, 0.0); (608331.4, 4124269.3, 67.9, 284.0, 0.0);
(608366.4, 4124269.3, 70.9, 284.0, 0.0); (608401.4, 4124269.3, 73.7, 284.0, 0.0);
(608436.4, 4124269.3, 77.8, 284.0, 0.0); (608471.4, 4124269.3, 87.9, 284.0, 0.0);

```
     ( 608506.4, 4124269.3,     102.6,     284.0,       0.0);         ( 608226.4,
4124304.3,      63.6,     284.0,       0.0);
     ( 608261.4, 4124304.3,      64.1,     284.0,       0.0);         ( 608296.4,
4124304.3,      67.1,     284.0,       0.0);
     ( 608331.4, 4124304.3,      71.4,     284.0,       0.0);         ( 608366.4,
4124304.3,      75.5,     284.0,       0.0);
     ( 608401.4, 4124304.3,      79.5,     284.0,       0.0);         ( 608436.4,
4124304.3,      84.9,     284.0,       0.0);
     ( 608471.4, 4124304.3,      93.8,     284.0,       0.0);         ( 608506.4,
4124304.3,     104.9,     284.0,       0.0);
     ( 608332.2, 4124334.3,      75.8,     284.0,       0.0);         ( 608367.2,
4124334.3,      80.0,     284.0,       0.0);
     ( 608402.2, 4124334.3,      85.6,     284.0,       0.0);
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** 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 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)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

   Surface file: ..\724946.SFC
                 Met Version: 14134
   Profile file: ..\724946.PFL

   Surface format: FREE

   Profile format: FREE

   Surface station no.:   93232   Upper air station no.:   23230
                 Name: UNKNOWN   Name:
OAKLAND/WSO_AP
                 Year: 2009   Year: 2009

 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
- -
- -
 09 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.14   1.01
1.00 999.00 999.   -9.0 999.0   -9.0
 09 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.14   1.01
1.00 999.00 999.   -9.0 999.0   -9.0
 09 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.14   1.01
1.00 999.00 999.   -9.0 999.0   -9.0
 09 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.14   1.01
1.00 999.00 999.   -9.0 999.0   -9.0
 09 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.14   1.01
1.00 999.00 999.   -9.0 999.0   -9.0
 09 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.14   1.01
1.00 999.00 999.   -9.0 999.0   -9.0
 09 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.14   1.01
1.00   0.00   0.   10.0 282.1   2.0
 09 01 01   1 08 -14.6 0.258 -9.000 -9.000 -999. 315.   106.7 0.09   1.01
0.74   3.36 323.   10.0 282.1   2.0
 09 01 01   1 09   -5.8 0.275 -9.000 -9.000 -999. 346.   324.0 0.09   1.01
0.39   3.36 307.   10.0 282.1   2.0

```
 09 01 01   1 10    8.2  0.291  0.289  0.016  107.  377.   -274.8  0.09   1.01
0.27    3.36  311.   10.0  282.1    2.0
 09 01 01   1 11   17.3  0.297  0.448  0.016  189.  389.   -138.5  0.09   1.01
0.23    3.36  314.   10.0  282.1    2.0
 09 01 01   1 12   22.3 -9.000 -9.000 -9.000  257. -999. -99999.0  0.14   1.01
0.21    0.00    0.   10.0  282.1    2.0
 09 01 01   1 13   23.1  0.301  0.584  0.016  312.  396.   -106.7  0.09   1.01
0.21    3.36  313.   10.0  282.1    2.0
 09 01 01   1 14   19.8 -9.000 -9.000 -9.000  353. -999. -99999.0  0.14   1.01
0.22    0.00    0.   10.0  283.1    2.0
 09 01 01   1 15   12.1  0.339  0.501  0.016  375.  473.   -291.2  0.17   1.01
0.25    3.36   42.   10.0  283.1    2.0
 09 01 01   1 16   25.3  0.263  0.664  0.017  420.  327.    -65.3  0.09   1.01
0.33    2.86   74.   10.0  284.1    2.0
 09 01 01   1 17  -13.7  0.251 -9.000 -9.000 -999.  301.    104.3  0.17   1.01
0.57    2.86   41.   10.0  283.1    2.0
 09 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  282.1    2.0
 09 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  282.1    2.0
 09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  281.1    2.0
 09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00    0.00    0.   10.0  280.1    2.0
 09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  280.1    2.0
 09 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.14   1.01
1.00  999.00  999.   -9.0  280.1    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 09 01 01 01   10.0 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20 ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                       ***        23:16:45

                                   PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                             *** THE PERIOD ( 43872 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0002270    , L0002271
 , L0002272    , L0002273    , L0002274    ,
                 L0002275    , L0002276    , L0002277    , L0002278    , L0002279
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 , L0002280    , L0002281    , L0002282    ,
                 L0002283    , L0002284    , L0002285    , L0002286    , L0002287
 , L0002288    , L0002289    , L0002290    ,
                 L0002291    , L0002292    , L0002293    , L0002294    , L0002295
 , L0002296    , L0002297    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         608331.37    4124129.27        0.00039                      608366.37
4124129.27        0.00037
         608401.37    4124129.27        0.00035                      608436.37
4124129.27        0.00032
         608471.37    4124129.27        0.00030                      608506.37
4124129.27        0.00027
         607911.37    4124164.27        0.00002                      607946.37
4124164.27        0.00002
         607981.37    4124164.27        0.00002                      608016.37
4124164.27        0.00002
         608296.37    4124164.27        0.00046                      608331.37
4124164.27        0.00044
         608366.37    4124164.27        0.00041                      608401.37
4124164.27        0.00038
         608436.37    4124164.27        0.00034                      608471.37
4124164.27        0.00030
         608506.37    4124164.27        0.00027                      607911.37
4124199.27        0.00003
         607946.37    4124199.27        0.00003                      607981.37
4124199.27        0.00002
         608016.37    4124199.27        0.00002                      608296.37
4124199.27        0.00052
         608331.37    4124199.27        0.00047                      608366.37
4124199.27        0.00042
         608401.37    4124199.27        0.00037                      608436.37
4124199.27        0.00033
         608471.37    4124199.27        0.00029                      608506.37
4124199.27        0.00026
         607946.37    4124234.27        0.00004                      607981.37
4124234.27        0.00003
         608016.37    4124234.27        0.00002                      608261.37
4124234.27        0.00056
         608296.37    4124234.27        0.00051                      608331.37
4124234.27        0.00045
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         608366.37    4124234.27        0.00039                      608401.37
4124234.27        0.00034
         608436.37    4124234.27        0.00030                      608471.37
4124234.27        0.00027
         608506.37    4124234.27        0.00024                      607946.37
4124269.27        0.00007
         608226.37    4124269.27        0.00045                      608261.37
4124269.27        0.00045
         608296.37    4124269.27        0.00041                      608331.37
4124269.27        0.00036
         608366.37    4124269.27        0.00032                      608401.37
4124269.27        0.00029
         608436.37    4124269.27        0.00026                      608471.37
4124269.27        0.00023
         608506.37    4124269.27        0.00021                      608226.37
4124304.27        0.00024
         608261.37    4124304.27        0.00027                      608296.37
4124304.27        0.00027
         608331.37    4124304.27        0.00025                      608366.37
4124304.27        0.00024
         608401.37    4124304.27        0.00022                      608436.37
4124304.27        0.00020
         608471.37    4124304.27        0.00019                      608506.37
4124304.27        0.00017
         608332.18    4124334.30        0.00017                      608367.18
4124334.30        0.00017
         608402.18    4124334.30        0.00017

 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20 ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                       ***        23:16:45

                                  PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0002270    , L0002271
 , L0002272    , L0002273    , L0002274    ,
                  L0002275    , L0002276    , L0002277    , L0002278    , L0002279
 , L0002280    , L0002281    , L0002282    ,
                  L0002283    , L0002284    , L0002285    , L0002286    , L0002287
 , L0002288    , L0002289    , L0002290    ,
                  L0002291    , L0002292    , L0002293    , L0002294    , L0002295
 , L0002296    , L0002297    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
```

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
608331.37	4124129.27	0.00356	(11020122)	608366.37	4124129.27	0.00310	(11020122)
608401.37	4124129.27	0.00251	(11020122)	608436.37	4124129.27	0.00231	(11020118)
608471.37	4124129.27	0.00213	(11020118)	608506.37	4124129.27	0.00194	(13012718)
607911.37	4124164.27	0.00320	(10011718)	607946.37	4124164.27	0.00209	(10011718)
607981.37	4124164.27	0.00183	(09010911)	608016.37	4124164.27	0.00180	(09122610)
608296.37	4124164.27	0.00447	(13112120)	608331.37	4124164.27	0.00358	(12060320)
608366.37	4124164.27	0.00310	(11022619)	608401.37	4124164.27	0.00270	(11020118)
608436.37	4124164.27	0.00239	(13012718)	608471.37	4124164.27	0.00217	(13120719)
608506.37	4124164.27	0.00196	(11120107)	607911.37	4124199.27	0.00508	(10011718)
607946.37	4124199.27	0.00497	(10011718)	607981.37	4124199.27	0.00320	(10011718)
608016.37	4124199.27	0.00222	(09010911)	608296.37	4124199.27	0.00452	(13120717)
608331.37	4124199.27	0.00382	(09122221)	608366.37	4124199.27	0.00327	(11120107)
608401.37	4124199.27	0.00289	(11120107)	608436.37	4124199.27	0.00253	(11120107)
608471.37	4124199.27	0.00227	(13120718)	608506.37	4124199.27	0.00199	(12120918)
607946.37	4124234.27	0.00607	(12122518)	607981.37	4124234.27	0.00624	(10011718)
608016.37	4124234.27	0.00305	(10011718)	608261.37	4124234.27	0.00599	(12021418)
608296.37	4124234.27	0.00484	(12121817)	608331.37	4124234.27	0.00401	(12121817)
608366.37	4124234.27	0.00340	(10122918)	608401.37	4124234.27	0.00292	(10122918)
608436.37	4124234.27	0.00254	(11022520)	608471.37	4124234.27	0.00221	(11022520)
608506.37	4124234.27	0.00178	(09100718)	607946.37	4124269.27	0.00742	(12120207)
608226.37	4124269.27	0.00839	(12022418)	608261.37	4124269.27	0.00622	(12010720)
608296.37	4124269.27	0.00508	(12010720)	608331.37			

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 4124269.27        0.00420  (12010720)
       608366.37   4124269.27        0.00353  (11020607)               608401.37
 4124269.27        0.00299  (11020607)
       608436.37   4124269.27        0.00253  (11020607)               608471.37
 4124269.27        0.00217  (13021919)
       608506.37   4124269.27        0.00161  (11092718)               608226.37
 4124304.27        0.00768  (12031721)
       608261.37   4124304.27        0.00581  (12041321)               608296.37
 4124304.27        0.00489  (12022318)
       608331.37   4124304.27        0.00418  (12022318)               608366.37
 4124304.27        0.00352  (12022318)
       608401.37   4124304.27        0.00295  (12022318)               608436.37
 4124304.27        0.00252  (11020808)
       608471.37   4124304.27        0.00202  (11020808)               608506.37
 4124304.27        0.00154  (12051519)
       608332.18   4124334.30        0.00394  (09122122)               608367.18
 4124334.30        0.00322  (12010722)
       608402.18   4124334.30        0.00274  (12010722)

 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\Piercy
Rd\469_Piercy_Ops_2023\469_Piercy_Ops_20 ***        03/14/23
 *** AERMET - VERSION  14134 ***   ***
                       ***        23:16:45

                                   PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0002270    , L0002271
 , L0002272    , L0002273    , L0002274    ,
                 L0002275    , L0002276    , L0002277    , L0002278    , L0002279
 , L0002280    , L0002281    , L0002282    ,
                 L0002283    , L0002284    , L0002285    , L0002286    , L0002287
 , L0002288    , L0002289    , L0002290    ,
                 L0002291    , L0002292    , L0002293    , L0002294    , L0002295
 , L0002296    , L0002297    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

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

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       608331.37   4124129.27        0.00090b (11020124)               608366.37
 4124129.27        0.00079b (11020124)
```

608401.37 4124129.27 0.00068b (11020124) 608436.37 4124129.27 0.00059b (11020124)
608471.37 4124129.27 0.00056b (09122224) 608506.37 4124129.27 0.00052b (09122224)
607911.37 4124164.27 0.00019b (10011724) 607946.37 4124164.27 0.00015b (11013024)
607981.37 4124164.27 0.00018b (11013024) 608016.37 4124164.27 0.00017b (11013024)
608296.37 4124164.27 0.00112b (11020124) 608331.37 4124164.27 0.00094b (11020124)
608366.37 4124164.27 0.00080b (11020124) 608401.37 4124164.27 0.00074b (09122224)
608436.37 4124164.27 0.00067b (09122224) 608471.37 4124164.27 0.00060m (12030624)
608506.37 4124164.27 0.00055m (12030624) 607911.37 4124199.27 0.00035b (10011724)
607946.37 4124199.27 0.00030b (10011724) 607981.37 4124199.27 0.00019b (10011724)
608016.37 4124199.27 0.00017b (11013024) 608296.37 4124199.27 0.00112m (12030624)
608331.37 4124199.27 0.00111m (12030624) 608366.37 4124199.27 0.00103m (12030624)
608401.37 4124199.27 0.00093m (12030624) 608436.37 4124199.27 0.00084m (12030624)
608471.37 4124199.27 0.00075m (12030624) 608506.37 4124199.27 0.00064m (12030624)
607946.37 4124234.27 0.00069m (10102324) 607981.37 4124234.27 0.00055m (10102324)
608016.37 4124234.27 0.00020m (10102324) 608261.37 4124234.27 0.00203m (12030624)
608296.37 4124234.27 0.00177m (12030624) 608331.37 4124234.27 0.00151m (12030624)
608366.37 4124234.27 0.00128m (12030624) 608401.37 4124234.27 0.00109m (12030624)
608436.37 4124234.27 0.00094m (12030624) 608471.37 4124234.27 0.00079m (12030624)
608506.37 4124234.27 0.00063m (12030624) 607946.37 4124269.27 0.00163m (12120124)
608226.37 4124269.27 0.00287m (12030624) 608261.37 4124269.27 0.00230m (12030624)
608296.37 4124269.27 0.00183m (12030624) 608331.37 4124269.27 0.00148m (12030624)
608366.37 4124269.27 0.00121m (12030624) 608401.37 4124269.27 0.00101m (12030624)
608436.37 4124269.27 0.00084m (12030624) 608471.37 4124269.27 0.00068m (12030624)
608506.37 4124269.27 0.00052m (12030624) 608226.37 4124304.27 0.00140m (12030624)
608261.37 4124304.27 0.00130m (12030624) 608296.37 4124304.27 0.00111m (12030624)

*** THE SUMMARY OF MAXIMUM PERIOD (43872 HRS) RESULTS ***

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

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00056 AT (608261.37, 4124234.27, 63.78, 284.01, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00052 AT (608296.37, 4124199.27, 64.63, 284.01, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00051 AT (608296.37, 4124234.27, 64.59, 284.01, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00047 AT (608331.37, 4124199.27, 64.77, 284.01, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00046 AT (608296.37, 4124164.27, 64.33, 284.01, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00045 AT (608226.37, 4124269.27, 63.66, 284.01, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00045 AT (608331.37, 4124234.27, 65.57, 284.01, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00045 AT (608261.37, 4124269.27, 63.71, 284.01, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00044 AT (608331.37, 4124164.27, 64.71, 284.01, 0.00)	DC	

```
        10TH HIGHEST VALUE IS       0.00042 AT (  608366.37,  4124199.27,
65.28,   284.01,    0.00)  DC


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



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


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

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

ALL      HIGH   1ST HIGH VALUE IS       0.00839  ON 12022418: AT (  608226.37,
4124269.27,    63.66,   284.01,    0.00)  DC


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



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN

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

GROUP ID	AVERAGE	NETWORK CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)
ALL	HIGH 1ST HIGH VALUE IS	0.00287m	ON 12030624:	AT (608226.37, 4124269.27, 63.66, 284.01, 0.00)
	OF TYPE	GRID-ID		
	DC			

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

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

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

A Total of 0 Fatal Error Message(s)
A Total of 1 Warning Message(s)
A Total of 29124 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 7247 Calm Hours Identified

A Total of 21877 Missing Hours Identified (49.87 Percent)

CAUTION!: Number of Missing Hours Exceeds 10 Percent of Total!
Data May Not Be Acceptable for Regulatory Applications.
See Section 5.3.2 of "Meteorological Monitoring Guidance
for Regulatory Modeling Applications" (EPA-454/R-99-005).

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

```
   ********   WARNING MESSAGES   ********
SO W320     576        PPARM: Input Parameter May Be Out-of-Range for Parameter
       VS

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

*HARP - HRACalc v22094 3/14/2023 11:09:31 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Construction 2023\496 Piercy_Const_Res_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK
1			9901	DieselExhP	0.0169	4.05E-06	3YrCancerHighEnd_InhSoilDerm_FAH3to70	*	4.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	3YrCancerHighEnd_InhSoilDerm_FAH3to70	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVI	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:09:31 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Construction 2023\496 Piercy_Const_Res_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.258	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.258	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-01	0.00E+00	1.03E-01	0.00E+00

ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:09:31 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Construction 2023\496 Piercy_Const_Res_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE'	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.0169	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DC	WATER_DC	FISH_DOSE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CROP_DOS	BEEF_DOSI	DAIRY_DO!	PIG_DOSE	CHICKEN_D	EGG_DOSE	1ST_DRIVE	2ND_DRIVI	3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:07:24 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Construction 2023\496 Piercy_Const_Worker_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
1			9901	DieselExhP	0.0466	2.88E-06	25YrCance	*	2.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	25YrCance	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVI	PASTURE_I	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:07:24 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Construction 2023\496 Piercy_Const_Worker_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.41	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.41	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-01	0.00E+00	1.64E-01	0.00E+00

ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:07:24 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Construction 2023\496 Piercy_Const_Worker_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.0466	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-03	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DC	WATER_DC	FISH_DOSE	CROP_DOS	BEEF_DOSE	DAIRY_DOSE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	4.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PIG_DOSE	CHICKEN_D	EGG_DOSE	1ST_DRIVE	2ND_DRIVI	3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:28:27 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Ops 2023\496 Piercy_Ops_Worker_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK
1			9901	DieselExhP	0.00056	3.47E-08	25YrCance	*	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	25YrCance	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVI	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:28:27 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Ops 2023\496 Piercy_Ops_Worker_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.00839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.00839	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	3.36E-03	0.00E+00

ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:28:27 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Ops 2023\496 Piercy_Ops_Worker_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE'	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.00056	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DC	WATER_DC	FISH_DOSE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	5.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CROP_DOS	BEEF_DOSI	DAIRY_DO!	PIG_DOSE	CHICKEN_D	EGG_DOSE	1ST_DRIVE	2ND_DRIVI	3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:27:13 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Ops 2023\496 Piercy_Opst_Res_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK
1			9901	DieselExhP	0.00017	7.15E-08	30YrCance	*	7.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	30YrCance	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVI	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:27:13 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Ops 2023\496 Piercy_Opst_Res_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.00394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.00394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	1.58E-03	0.00E+00

ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22094 3/14/2023 11:27:13 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Piercy Xebec\Ops 2023\496 Piercy_Opst_Res_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE'	RESP	SKIN	EYE	BONE/TEETH
1			9901	DieselExhP	0.00017	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DC	WATER_DC	FISH_DOSE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CROP_DOS	BEEF_DOSI	DAIRY_DO!	PIG_DOSE	CHICKEN_D	EGG_DOSE	1ST_DRIVE	2ND_DRIVI	3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA	NA	0.00E+00	0.00E+00	0.00E+00