Appendix B

Health Risk Assessment

Health Risk Assessment
2919 South King 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 2919 South King 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

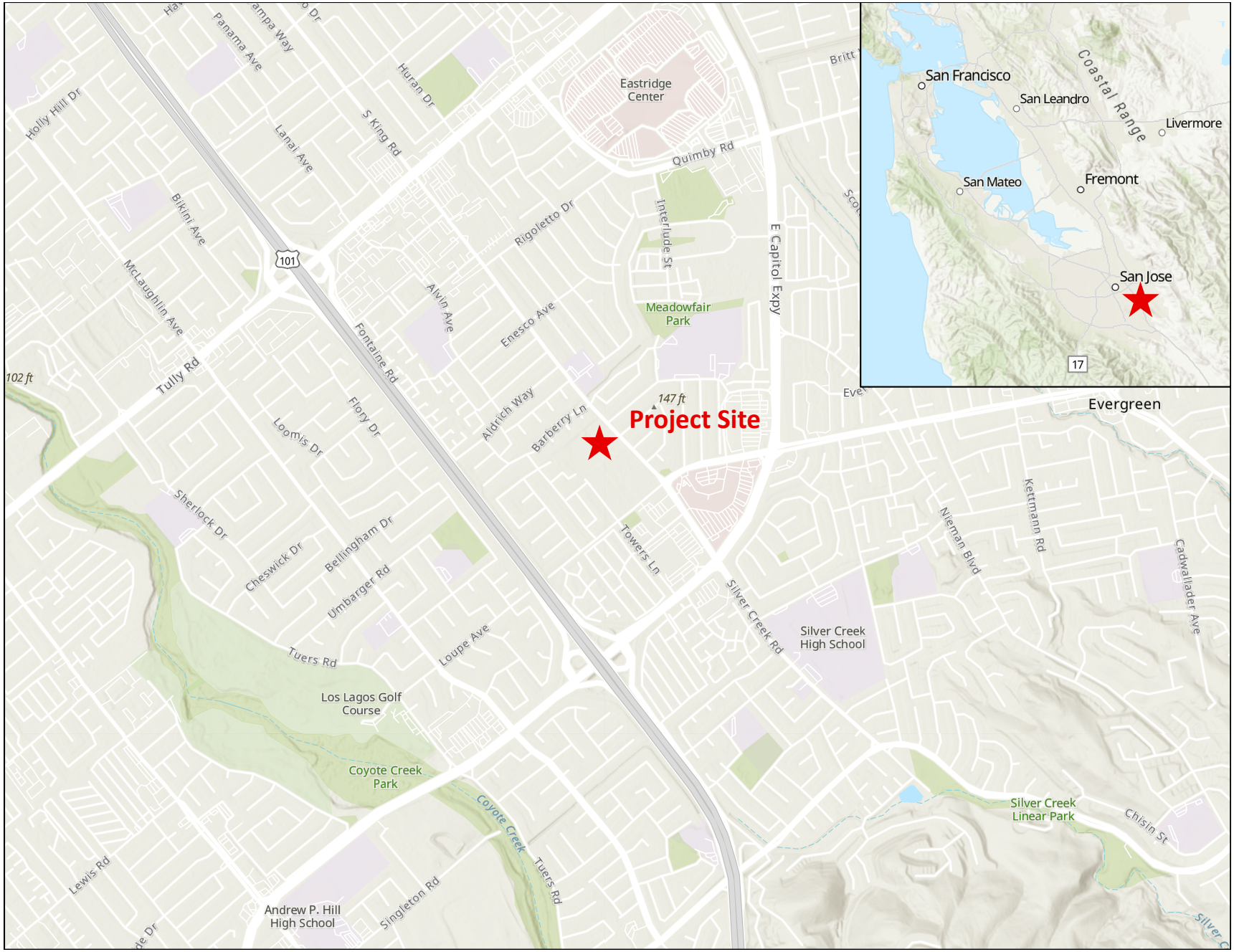
The proposed project is located at 2919 South King Road in San José. Figure 1: Regional Vicinity and Figure 2: Site Vicinity, depict the project site in a regional and local context. The project site is located in an urban area with a mix of surrounding uses including light industrial, residential, and commercial uses. The project site is immediately surrounded by residential uses to the north and northwest. The proposed project's existing land use designation is Light Industrial (LI) and existing zoning designation is Light Industrial Planned Development Zoning District LI(PD). Currently, the project site is vacant with some existing vegetation.

1.2 Project Description

The project intends to redevelop the property as a modern industrial facility. The proposed project would construct an approximately 103,970 square foot (sf) speculative warehouse building with a loading dock on the north side of the building, refer to Figure 3: Project Site Plan. The new warehouse building would contain approximately 88,970 sf of warehouse space and 10,000 sf of office space on the first floor and 5,000 sf of office space on a mezzanine floor. The warehouse building would include 11 loading dock doors on its northern side. The proposed project also 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 off South King Road. A 32-foot wide driveway would be located north of the warehouse building, providing access for trucks and trailers. A 26-foot wide driveway would be located south of the warehouse building, providing access for passenger vehicles. Pedestrian access would be provided via South King Road, by a path located south of the warehouse building.

The proposed project would be constructed over the course of approximately 11 months. Demolition is anticipated to occur in October 2022, followed by a 10-month construction phase between November 2022 and September 2023. The proposed project would require approximately 5,590 cubic yards (cy) of soil import during the grading phases of construction.



Source: USGS, 2021

Figure 1: Regional Map

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Source: Google Earth, 2020

Figure 2: Project Vicinity Map

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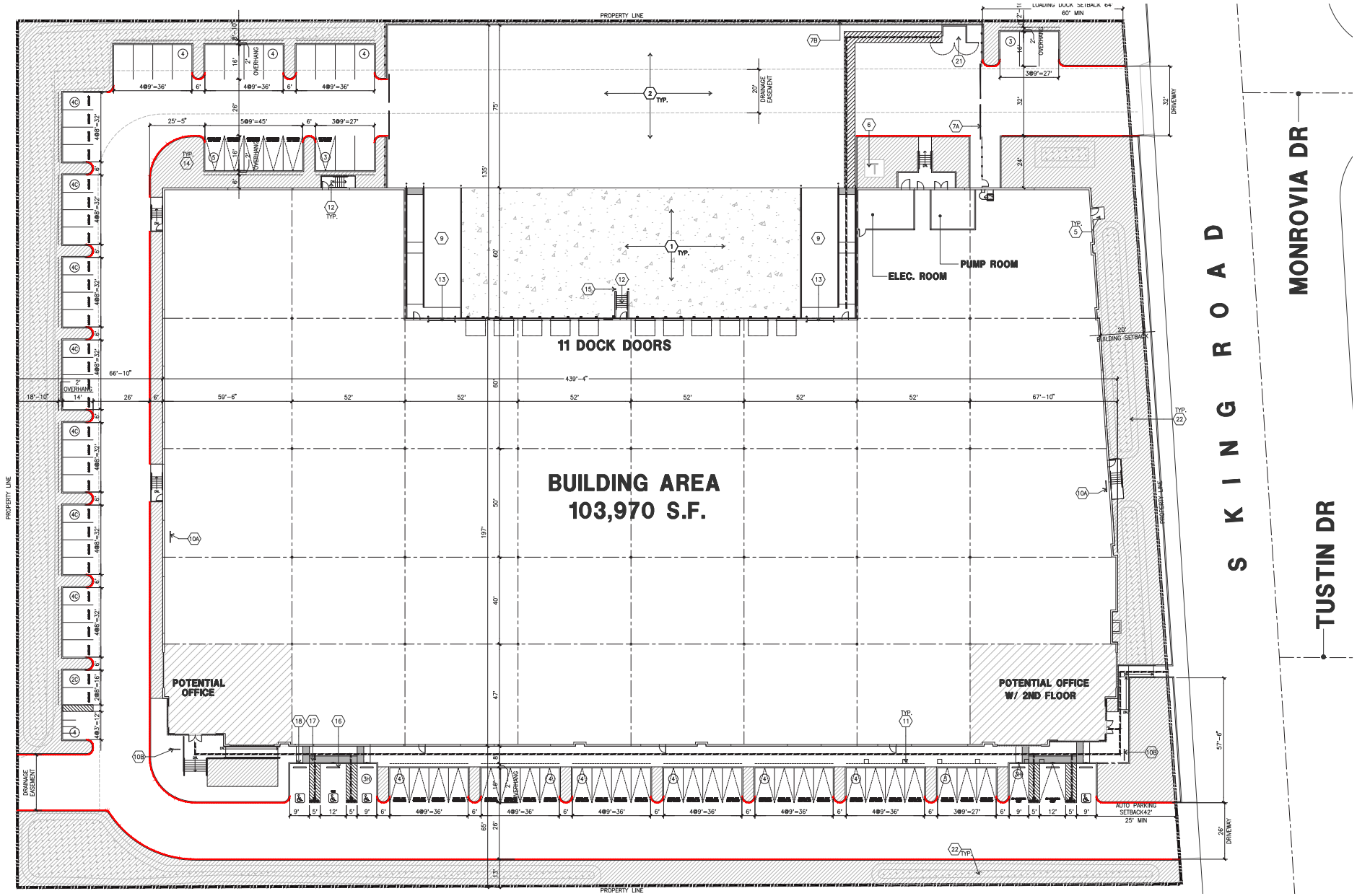

Source: Kier + Wright, 2021

Figure 3: Site Plan

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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. The surrounding land uses are commercial and industrial, with residences to the north, east, south, and west. Table 1: Sensitive Receptors, lists the distances and locations of nearby sensitive receptors. Figure 4: Sensitive Receptor Locations shows the receptors.

Table 1: Sensitive Receptors

Receptor Description	Distance and Direction from the Project Site
Single-family residential community	85 feet south
Single-family residential community	110 feet east
Single-family residential community	125 feet north
Single-family residential community	130 feet west
Liberty Baptist Church	685 feet north
George V. LeyVa Middle School	1,060 feet northeast

Source: Google Earth, 2020

Figure 4: Sensitive Receptor Locations

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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.

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 6085503304, which is within the 52nd percentile with a pollution burden of 42.[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

[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.

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.

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 µg/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 µg/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 are the residences (approximately 85 feet south).

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 (April 2022). Total daily trip and truck trip generation is based on Institute of Transportation Engineers (ITE) Warehouse (ITE code 150) rate. This analysis evaluates approximately 20 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 2023 emissions factors since project construction would be completed in 2023. 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 February 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 north 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 12 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 (µg/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 at the residences (approximately 85 feet south). 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 South King Road 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- and off-site exhaust emissions reported in CalEEMod during construction. 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

Emissions Sources	Pollutant Concentration ($\mu g/m^3$)	Cancer Risk (per Million)	Chronic Hazard	Acute Hazard
Unmitigated				
Construction	0.064	20.28	0.013	1.27
BAAQMD Threshold	*0.3*	*10*	*1.0*	*1.0*
Threshold Exceeded?	**No**	**Yes**	**No**	**Yes**
Mitigated				
Construction	0.010	3.07	0.002	0.191
BAAQMD Threshold	*0.3*	*10*	*1.0*	*1.0*
Threshold Exceeded?	**No**	**No**	**No**	**No**

1. Mitigation Measure AQ-1 requires heavy-duty off-road construction equipment to meet CARB Tier 4 Final emissions standards.
Refer to Appendix A: Modeling Data.

Maximum unmitigated concentration of $PM_{2.5}$ during construction would be 0.06 $\mu g/m^3$, which would not exceed the BAAQMD threshold of 0.3 $\mu g/m^3$. The highest calculated unmitigated carcinogenic risk from project construction would be 20.28 per million, which would exceed the BAAQMD threshold of 10 in one million. The maximally exposed individuals (MEI) during construction are the residences located approximately 140 feet west of the project site.

Mitigation Measure AQ-1 from the previous ISMND requires the use of construction equipment that would meet CARB Tier 4 Final emissions standards in order to reduce diesel exhaust construction emissions. Mitigation Measure AQ-1 would reduce the project $PM_{2.5}$ concentration to 0.01 $\mu g/m^3$ and would reduce the Project's maximum cancer risk to 3.07 per million, which would be below the BAAQMD

[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).

thresholds of 0.3 µg/m^3 and 10 in one million, respectively. Non-cancer hazards for DPM would be below BAAQMD threshold for chronic hazard index computed at 0.013 without mitigation and 0.002 with mitigation. The acute hazard index would be 1.27 without mitigation which exceeds BAAQMD threshold but would be reduced to 0.191 with mitigation. Acute and chronic hazards would be below the BAAQMD significance threshold of 1.0 with Mitigation Measure AQ-1. Construction risk levels would be below the BAAQMD's thresholds with Mitigation Measure AQ-1.

Mitigation Measures:

AQ-1 The project applicant shall select equipment during construction to minimize emissions. A construction management plan shall be submitted by the project applicant for review and approval by the Supervising Planner of the Planning, Building, and Code Enforcement Department prior to issuance of any grading and building permits. The construction management plan shall demonstrate that the off-road equipment used on-site to construct the project would achieve a fleet-wide average 85% reduction in $PM_{2.5}$ exhaust emissions or more. Options to achieve this reduction could include, but are not limited to, the following:

- All mobile diesel-powered off-road equipment larger than 25 horsepower and operating on the site for more than two days shall meet U.S. EPA particulate matter emissions standards for Tier 4 engines or equivalent.
- Use of equipment that includes CARB-certified Level 3 Diesel Particulate Filters or alternatively fueled equipment (i.e., non-diesel).
- Use of added exhaust devices.

Level of Significance: Less than significant with mitigation incorporated.

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 South King 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 0.0004 µg/m^3. The calculations conservatively assume no cleaner technology with lower emissions in future years. Table 4: Operational Risk shows the highest calculated carcinogenic risk resulting from the project is 0.25 in one million for the residences 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 (µg/m^3)	Maximum Cancer Risk (per Million)	Chronic Noncancer Hazard	Acute Noncancer Hazard
Project	0.0004	0.25	0.0001	0.0044
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 north 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.				
Refer to Appendix A: Modeling Data.				

The maximally exposed individual resident (MEIR) during operation is the sensitive receptor located 140 feet to the north (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 is one stationary sources within 1,000 feet of the project site. Table 5: Cumulative Operational Health Risk shows the cumulative health risk values for the proposed project.

Table 5: Cumulative Operational Health Risk

Emissions Sources	$PM_{2.5}$ (µg/m^3)	Cancer Risk (per million	Hazard
Project Mobile Emissions	0.0004	0.25	0.0001
Major Street Sources[1]	0.19	8.15	0.76
Highway Sources[1]	0.32	36.42	1.28
Railway Sources[1]	0.001	0.40	0.03
Stationary Sources			
Name of Facility			
Blossom Valley Collision	0.00	0.00	0.00
Cumulative Health Risk Values	**0.51**	**45.22**	**2.07**
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 shown in Table 5, cumulative impacts related to $PM_{2.5}$, cancer risk and hazard would be less than cumulatively considerable and within acceptable limits. The primary contributor to those concentrations are the existing major street and highway sources near the project area. The existing major street sources have a high $PM_{2.5}$ (0.19 µg/m^3) and highway sources have a high $PM_{2.5}$ (0.32 µg/m^3). The major street and highway sources combined represent approximately 99.99 percent of the total concentrations and are completely unrelated to the project. The project represents less than 0.01 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.[9] 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.

[9] 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

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Appendix A

Modeling Data

Construction - Unmitigated

	$PM_{2.5}$ Exhaust Onsite		
Year	**Tons/Year**	**g/s**	**Weighted Average On-Site Rate**
2022	3.15E-02	0.015251	0.009460502
2023	6.61E-02	0.008013	

Construction - Mitigated

	$PM_{2.5}$ Exhaust Onsite		
Year	**Tons/Year**	**g/s**	**Weighted Average On-Site Rate**
2022	4.72E-03	0.002288	0.001419075
2023	9.92E-03	0.001202	

	2022	**2023**	**Total**
Const Duration (Days):	65	260	325

	Trips		**Miles**		**Weighted**
	Vendor	**Hauling**	**Vendor**	**Hauling**	**Trip length**
2022	0	699	7.3	20	20.00
2023	39	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	5.50E-04	0.000267	3.86281E-05	2.60E-05
2023	1.30E-03	0.000157	2.28257E-05	

Construction Route	**Length (meters)**	**Length (Miles)**	**Emissions (g/sec per mile)**	**Emission Rate (g/sec)**
King Haul Route	747.4	0.46	2.60E-05	1.21E-05

On-Site Construction Emissions			**Mitigated**	**Off-Site Construction Emissions**		
		tons/yr	**tons/yr**			**tons/yr**
Year	**Phase**	**Exhaust $PM_{2.5}$**	**Exhaust $PM_{2.5}$**	**Year**	**Phase**	**Exhaust $PM_{2.5}$**
2022	Site Prep	1.63E-02	0.002445	2022	Site Prep	1.00E-05
2022	Grading	9.95E-03	0.0014925	2022	Grading	5.30E-04
2022	Paving	5.22E-03	0.000783	2022	Paving	1.00E-05
	Total	3.15E-02	4.72E-03		Total	5.50E-04
2023	Building	0.0629	0.009435	2023	Building	1.28E-03
2023	Arch Coating	2.30E-03	0.000345	2023	Arch Coating	2.00E-05
2023	Paving	9.40E-04	0.000141	2023	Paving	0.00E+00
	Total	0.06614	0.009921		Total	1.30E-03

Construction (unmitigated)

	µg/m³		
	1 hr	24 hr	Period
Project	3.18E+00	3.75E-01	6.36E-02

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	6.36E-02	2.03E-05	20.28	1.27E-02	3.18E+00	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	3.18E+00	1.27E+00

Tier 4

	µg/m³		
	1 hr	24 hr	Period
Project	4.78E-01	5.62E-02	9.64E-03

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	9.64E-03	3.07E-06	3.07	1.93E-03	4.78E-01	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	4.78E-01	1.91E-01

Operations

	µg/m³		
	1 hr	24 hr	Period
Project	1.10E-02	2.51E-03	3.60E-04

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	3.60E-04	2.45E-07	0.25	7.20E-05	1.10E-02	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	1.10E-02	4.40E-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)
South King Road	35	29	0.00057	747.4	0.46	7.55E-03	8.74E-08
On-Site Travel	15	29	0.00065	143.9	0.09	1.65E-03	1.91E-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	29	1.91271E-05	0.25	1.36E-04	1.58E-09

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: Sub-Area
Region: Santa Clara (SF)
Calendar Year: 2023
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 RU

	Speed (mph)	
Idle (g/trip)	15	35
1.9127E-05	0.000647566	0.000570705

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		35	Gasoline	6.324548662	2.4748E-08	1.5652E-07
Santa Clara	2023	HHDT	Aggregate		35	Diesel	28594.8437	0.000320037	9.151418982
Santa Clara	2023	HHDT	Aggregate		35	Electricity	11.04830649	0	0
Santa Clara	2023	HHDT	Aggregate		35	Natural Gas	3049.980396	5.97032E-06	0.018209365
Santa Clara	2023	LHDT2	Aggregate		35	Gasoline	4600.04444	4.41924E-06	0.02032869
Santa Clara	2023	LHDT2	Aggregate		35	Diesel	11745.49285	0.000322428	3.78708082
Santa Clara	2023	MHDT	Aggregate		35	Gasoline	4297.547713	4.73518E-06	0.020349646
Santa Clara	2023	MHDT	Aggregate		35	Diesel	65317.11782	0.000833529	54.44372288
Santa Clara	2023	MHDT	Aggregate		35	Electricity	15.77717257	0	0
Santa Clara	2023	MHDT	Aggregate		35	Natural Gas	533.8971021	5.42013E-07	0.000289379

	PM2.5 (exhaust)		
	Tons/year	grams/year	grams/sec
Stationary Source	0.0181	16420.0485	0.000521
each generator	0.000130318		

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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 3/24/2022
** File: C:\Lakes\AERMOD View\2905 King Road\2905 King_Const_\2905 King_Const_.ADI
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** AERMOD Control Pathway
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  MODELOPT DFAULT CONC
  AVERTIME 1 8 24 PERIOD
  URBANOPT 1928000 Santa_Clara_County
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "2905 King_Const_.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 On-site Construction
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.001751476
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 10
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** 604780.422, 4130100.854, 44.38, 3.11, 3.95
** 604832.040, 4130035.471, 44.30, 3.11, 3.95
** 604934.416, 4130117.199, 44.94, 3.11, 3.95
** 604886.239, 4130166.237, 44.87, 3.11, 3.95
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** 604810.533, 4130106.876, 44.27, 3.11, 3.95
** 604838.063, 4130064.721, 44.20, 3.11, 3.95
** 604906.887, 4130122.361, 45.08, 3.11, 3.95
** 604888.820, 4130144.729, 45.05, 3.11, 3.95
** 604836.342, 4130103.435, 44.32, 3.11, 3.95
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LOCATION L0000002 VOLUME 604865.449 4130175.059 44.81
LOCATION L0000003 VOLUME 604859.045 4130169.470 44.82
LOCATION L0000004 VOLUME 604852.641 4130163.881 44.80
LOCATION L0000005 VOLUME 604846.237 4130158.292 44.74
LOCATION L0000006 VOLUME 604839.833 4130152.703 44.68
LOCATION L0000007 VOLUME 604833.429 4130147.114 44.59
LOCATION L0000008 VOLUME 604827.025 4130141.525 44.49
LOCATION L0000009 VOLUME 604820.621 4130135.936 44.39
LOCATION L0000010 VOLUME 604814.217 4130130.347 44.35
LOCATION L0000011 VOLUME 604807.812 4130124.758 44.30
LOCATION L0000012 VOLUME 604801.408 4130119.169 44.25
LOCATION L0000013 VOLUME 604795.004 4130113.580 44.31
LOCATION L0000014 VOLUME 604788.600 4130107.991 44.37
LOCATION L0000015 VOLUME 604782.196 4130102.402 44.40
LOCATION L0000016 VOLUME 604784.230 4130096.030 44.39
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LOCATION L0000024 VOLUME 604826.366 4130042.658 44.27
LOCATION L0000025 VOLUME 604831.633 4130035.986 44.27
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LOCATION L0000028 VOLUME 604851.455 4130050.970 44.26
LOCATION L0000029 VOLUME 604858.098 4130056.273 44.25
LOCATION L0000030 VOLUME 604864.741 4130061.576 44.27
LOCATION L0000031 VOLUME 604871.384 4130066.879 44.32
LOCATION L0000032 VOLUME 604878.027 4130072.182 44.46
LOCATION L0000033 VOLUME 604884.670 4130077.485 44.60
LOCATION L0000034 VOLUME 604891.312 4130082.789 44.73
LOCATION L0000035 VOLUME 604897.955 4130088.092 44.81
LOCATION L0000036 VOLUME 604904.598 4130093.395 44.86
LOCATION L0000037 VOLUME 604911.241 4130098.698 44.89
LOCATION L0000038 VOLUME 604917.884 4130104.001 44.91
LOCATION L0000039 VOLUME 604924.526 4130109.304 44.93
LOCATION L0000040 VOLUME 604931.169 4130114.607 44.95
LOCATION L0000041 VOLUME 604931.371 4130120.299 44.96
LOCATION L0000042 VOLUME 604925.414 4130126.362 44.96
LOCATION L0000043 VOLUME 604919.457 4130132.426 44.96
LOCATION L0000044 VOLUME 604913.500 4130138.489 44.99
LOCATION L0000045 VOLUME 604907.543 4130144.552 45.01

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  LOCATION L0000048    VOLUME   604889.672 4130162.742 44.94
  LOCATION L0000049    VOLUME   604883.405 4130164.014 44.92
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  LOCATION L0000064    VOLUME   604829.614 4130077.657 44.36
  LOCATION L0000065    VOLUME   604834.262 4130070.540 44.30
  LOCATION L0000066    VOLUME   604839.251 4130065.716 44.24
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  LOCATION L0000068    VOLUME   604852.284 4130076.631 44.24
  LOCATION L0000069    VOLUME   604858.800 4130082.089 44.29
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  LOCATION L0000071    VOLUME   604871.833 4130093.004 44.45
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  LOCATION L0000077    VOLUME   604903.571 4130126.466 45.10
  LOCATION L0000078    VOLUME   604898.230 4130133.079 45.11
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  LOCATION L0000083    VOLUME   604867.190 4130127.708 44.89
  LOCATION L0000084    VOLUME   604860.510 4130122.452 44.70
  LOCATION L0000085    VOLUME   604853.830 4130117.196 44.48
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** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC King Road Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.42E-06
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** SZINIT = 2.89
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** 604842.882, 4130248.874, 44.74, 3.11, 3.95
** 604980.168, 4130111.588, 45.10, 3.11, 3.95
** 605151.075, 4129936.479, 45.68, 3.11, 3.95
** 605169.128, 4129917.975, 45.71, 3.11, 3.95
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LOCATION L0000091 VOLUME 604682.441 4130444.411 44.62
LOCATION L0000092 VOLUME 604687.833 4130437.840 44.60
LOCATION L0000093 VOLUME 604693.225 4130431.269 44.57
LOCATION L0000094 VOLUME 604698.616 4130424.698 44.50
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LOCATION L0000100 VOLUME 604730.967 4130385.271 44.30
LOCATION L0000101 VOLUME 604736.358 4130378.700 44.28
LOCATION L0000102 VOLUME 604741.750 4130372.129 44.27
LOCATION L0000103 VOLUME 604747.142 4130365.558 44.28
LOCATION L0000104 VOLUME 604752.533 4130358.987 44.30
LOCATION L0000105 VOLUME 604757.925 4130352.415 44.32
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LOCATION L0000111 VOLUME 604790.275 4130312.989 44.33
LOCATION L0000112 VOLUME 604795.667 4130306.418 44.27
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LOCATION L0000118 VOLUME 604828.017 4130266.991 44.69
LOCATION L0000119 VOLUME 604833.409 4130260.420 44.74
LOCATION L0000120 VOLUME 604838.800 4130253.849 44.75
LOCATION L0000121 VOLUME 604844.342 4130247.414 44.73
LOCATION L0000122 VOLUME 604850.353 4130241.403 44.76
LOCATION L0000123 VOLUME 604856.363 4130235.393 44.80
LOCATION L0000124 VOLUME 604862.374 4130229.382 44.81
LOCATION L0000125 VOLUME 604868.384 4130223.372 44.80
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LOCATION L0000129 VOLUME 604892.426 4130199.330 44.79

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  LOCATION L0000142    VOLUME   604970.561 4130121.195 45.09
  LOCATION L0000143    VOLUME   604976.571 4130115.185 45.15
  LOCATION L0000144    VOLUME   604982.552 4130109.145 45.19
  LOCATION L0000145    VOLUME   604988.489 4130103.062 45.21
  LOCATION L0000146    VOLUME   604994.426 4130096.979 45.20
  LOCATION L0000147    VOLUME   605000.363 4130090.896 45.17
  LOCATION L0000148    VOLUME   605006.300 4130084.813 45.18
  LOCATION L0000149    VOLUME   605012.237 4130078.730 45.20
  LOCATION L0000150    VOLUME   605018.174 4130072.647 45.23
  LOCATION L0000151    VOLUME   605024.111 4130066.564 45.29
  LOCATION L0000152    VOLUME   605030.048 4130060.481 45.34
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  LOCATION L0000155    VOLUME   605047.859 4130042.233 45.43
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  LOCATION L0000167    VOLUME   605119.103 4129969.237 45.65
  LOCATION L0000168    VOLUME   605125.040 4129963.154 45.65
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  LOCATION L0000173    VOLUME   605154.724 4129932.739 45.66
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** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
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SRCPARAM L0000004 0.0000201319 3.11 3.95 2.89
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SRCPARAM L0000006 0.0000201319 3.11 3.95 2.89
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SRCPARAM L0000008 0.0000201319 3.11 3.95 2.89
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SRCPARAM L0000053 0.0000201319 3.11 3.95 2.89

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   SRCPARAM L0000061    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000062    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000063    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000064    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000065    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000066    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000067    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000068    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000069    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000070    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000071    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000072    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000073    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000074    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000075    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000076    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000077    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000078    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000079    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000080    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000081    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000082    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000083    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000084    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000085    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000086    0.0000201319    3.11    3.95    2.89
   SRCPARAM L0000087    0.0000201319    3.11    3.95    2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
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   SRCPARAM L0000089    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000090    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000091    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000092    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000093    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000094    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000095    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000096    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000097    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000098    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000099    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000100    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000101    0.0000000275    3.11    3.95    2.89
   SRCPARAM L0000102    0.0000000275    3.11    3.95    2.89
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SRCPARAM L0000103 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000104 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000105 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000106 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000107 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000108 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000109 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000110 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000111 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000112 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000113 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000114 0.0000000275 3.11 3.95 2.89
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SRCPARAM L0000116 0.0000000275 3.11 3.95 2.89
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SRCPARAM L0000118 0.0000000275 3.11 3.95 2.89
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SRCPARAM L0000120 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000121 0.0000000275 3.11 3.95 2.89
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SRCPARAM L0000125 0.0000000275 3.11 3.95 2.89
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SRCPARAM L0000142 0.0000000275 3.11 3.95 2.89
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SRCPARAM L0000144 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000145 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000146 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000147 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000148 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000149 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000150 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000151 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000152 0.0000000275 3.11 3.95 2.89
SRCPARAM L0000153 0.0000000275 3.11 3.95 2.89

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  SRCPARAM L0000155    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000156    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000157    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000158    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000159    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000160    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000161    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000162    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000163    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000164    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000165    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000166    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000167    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000168    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000169    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000170    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000171    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000172    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000173    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000174    0.0000000275     3.11     3.95     2.89
  SRCPARAM L0000175    0.0000000275     3.11     3.95     2.89
** ------------------------------------------------------------------
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
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** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
  INCLUDED "2905 King_Const_.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
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**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
  RECTABLE 8 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "2905 King_Const_.AD\01H1GALL.PLT" 31
  PLOTFILE 8 ALL 1ST "2905 King_Const_.AD\08H1GALL.PLT" 32
  PLOTFILE 24 ALL 1ST "2905 King_Const_.AD\24H1GALL.PLT" 33
  PLOTFILE PERIOD ALL "2905 King_Const_.AD\PE00GALL.PLT" 34
  SUMMFILE "2905 King_Const_.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. 10.2.1
** Lakes Environmental Software Inc.
** Date: 4/4/2022
** File: C:\Lakes\AERMOD View\2905 King Road\2905 King_Const_Mit\2905 King_Const_Mit.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\2905 King Road\2905 King_Const_\2905 King_Const
  MODELOPT CONC FLAT ELEV
  AVERTIME 1 8 24 PERIOD
  URBANOPT 1928000 Santa_Clara_County
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "2905 King_Const_Mit.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site Construction
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.001419075
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 10
** 604875.056, 4130183.443, 44.76, 3.11, 3.95
** 604780.422, 4130100.854, 44.38, 3.11, 3.95
** 604832.040, 4130035.471, 44.30, 3.11, 3.95
** 604934.416, 4130117.199, 44.94, 3.11, 3.95
** 604886.239, 4130166.237, 44.87, 3.11, 3.95
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** 604810.533, 4130106.876, 44.27, 3.11, 3.95
** 604838.063, 4130064.721, 44.20, 3.11, 3.95
** 604906.887, 4130122.361, 45.08, 3.11, 3.95
** 604888.820, 4130144.729, 45.05, 3.11, 3.95
** 604836.342, 4130103.435, 44.32, 3.11, 3.95
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LOCATION L0000527 VOLUME 604871.853 4130180.648 44.76
LOCATION L0000528 VOLUME 604865.449 4130175.059 44.81
LOCATION L0000529 VOLUME 604859.045 4130169.470 44.82
LOCATION L0000530 VOLUME 604852.641 4130163.881 44.80
LOCATION L0000531 VOLUME 604846.237 4130158.292 44.74
LOCATION L0000532 VOLUME 604839.833 4130152.703 44.68
LOCATION L0000533 VOLUME 604833.429 4130147.114 44.59
LOCATION L0000534 VOLUME 604827.025 4130141.525 44.49
LOCATION L0000535 VOLUME 604820.621 4130135.936 44.39
LOCATION L0000536 VOLUME 604814.217 4130130.347 44.35
LOCATION L0000537 VOLUME 604807.812 4130124.758 44.30
LOCATION L0000538 VOLUME 604801.408 4130119.169 44.25
LOCATION L0000539 VOLUME 604795.004 4130113.580 44.31
LOCATION L0000540 VOLUME 604788.600 4130107.991 44.37
LOCATION L0000541 VOLUME 604782.196 4130102.402 44.40
LOCATION L0000542 VOLUME 604784.230 4130096.030 44.39
LOCATION L0000543 VOLUME 604789.497 4130089.358 44.41
LOCATION L0000544 VOLUME 604794.764 4130082.687 44.42
LOCATION L0000545 VOLUME 604800.031 4130076.015 44.38
LOCATION L0000546 VOLUME 604805.298 4130069.344 44.34
LOCATION L0000547 VOLUME 604810.565 4130062.672 44.32
LOCATION L0000548 VOLUME 604815.832 4130056.001 44.32
LOCATION L0000549 VOLUME 604821.099 4130049.329 44.31
LOCATION L0000550 VOLUME 604826.366 4130042.658 44.27
LOCATION L0000551 VOLUME 604831.633 4130035.986 44.27
LOCATION L0000552 VOLUME 604838.170 4130040.364 44.28
LOCATION L0000553 VOLUME 604844.813 4130045.667 44.25
LOCATION L0000554 VOLUME 604851.455 4130050.970 44.26
LOCATION L0000555 VOLUME 604858.098 4130056.273 44.25
LOCATION L0000556 VOLUME 604864.741 4130061.576 44.27
LOCATION L0000557 VOLUME 604871.384 4130066.879 44.32
LOCATION L0000558 VOLUME 604878.027 4130072.182 44.46
LOCATION L0000559 VOLUME 604884.670 4130077.485 44.60
LOCATION L0000560 VOLUME 604891.312 4130082.789 44.73
LOCATION L0000561 VOLUME 604897.955 4130088.092 44.81
LOCATION L0000562 VOLUME 604904.598 4130093.395 44.86
LOCATION L0000563 VOLUME 604911.241 4130098.698 44.89
LOCATION L0000564 VOLUME 604917.884 4130104.001 44.91
LOCATION L0000565 VOLUME 604924.526 4130109.304 44.93
LOCATION L0000566 VOLUME 604931.169 4130114.607 44.95
LOCATION L0000567 VOLUME 604931.371 4130120.299 44.96
LOCATION L0000568 VOLUME 604925.414 4130126.362 44.96
LOCATION L0000569 VOLUME 604919.457 4130132.426 44.96
LOCATION L0000570 VOLUME 604913.500 4130138.489 44.99
LOCATION L0000571 VOLUME 604907.543 4130144.552 45.01

LOCATION L0000572 VOLUME 604901.586 4130150.616 45.02
LOCATION L0000573 VOLUME 604895.629 4130156.679 45.00
LOCATION L0000574 VOLUME 604889.672 4130162.742 44.94
LOCATION L0000575 VOLUME 604883.405 4130164.014 44.92
LOCATION L0000576 VOLUME 604876.716 4130158.770 44.95
LOCATION L0000577 VOLUME 604870.027 4130153.525 44.98
LOCATION L0000578 VOLUME 604863.338 4130148.280 44.91
LOCATION L0000579 VOLUME 604856.649 4130143.035 44.77
LOCATION L0000580 VOLUME 604849.960 4130137.791 44.61
LOCATION L0000581 VOLUME 604843.271 4130132.546 44.46
LOCATION L0000582 VOLUME 604836.582 4130127.301 44.35
LOCATION L0000583 VOLUME 604829.893 4130122.056 44.25
LOCATION L0000584 VOLUME 604823.204 4130116.811 44.20
LOCATION L0000585 VOLUME 604816.515 4130111.567 44.25
LOCATION L0000586 VOLUME 604811.024 4130106.124 44.31
LOCATION L0000587 VOLUME 604815.671 4130099.007 44.36
LOCATION L0000588 VOLUME 604820.319 4130091.891 44.41
LOCATION L0000589 VOLUME 604824.967 4130084.774 44.41
LOCATION L0000590 VOLUME 604829.614 4130077.657 44.36
LOCATION L0000591 VOLUME 604834.262 4130070.540 44.30
LOCATION L0000592 VOLUME 604839.251 4130065.716 44.24
LOCATION L0000593 VOLUME 604845.767 4130071.173 44.21
LOCATION L0000594 VOLUME 604852.284 4130076.631 44.24
LOCATION L0000595 VOLUME 604858.800 4130082.089 44.29
LOCATION L0000596 VOLUME 604865.317 4130087.546 44.33
LOCATION L0000597 VOLUME 604871.833 4130093.004 44.45
LOCATION L0000598 VOLUME 604878.350 4130098.461 44.66
LOCATION L0000599 VOLUME 604884.866 4130103.919 44.84
LOCATION L0000600 VOLUME 604891.383 4130109.377 45.01
LOCATION L0000601 VOLUME 604897.899 4130114.834 45.12
LOCATION L0000602 VOLUME 604904.416 4130120.292 45.12
LOCATION L0000603 VOLUME 604903.571 4130126.466 45.10
LOCATION L0000604 VOLUME 604898.230 4130133.079 45.11
LOCATION L0000605 VOLUME 604892.889 4130139.691 45.09
LOCATION L0000606 VOLUME 604887.230 4130143.477 45.06
LOCATION L0000607 VOLUME 604880.550 4130138.221 45.04
LOCATION L0000608 VOLUME 604873.870 4130132.965 45.01
LOCATION L0000609 VOLUME 604867.190 4130127.708 44.89
LOCATION L0000610 VOLUME 604860.510 4130122.452 44.70
LOCATION L0000611 VOLUME 604853.830 4130117.196 44.48
LOCATION L0000612 VOLUME 604847.150 4130111.939 44.30
LOCATION L0000613 VOLUME 604840.470 4130106.683 44.28
** End of LINE VOLUME Source ID = SLINE1
** ----------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC King Road Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.0000121

** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 604663.570, 4130467.410, 44.64, 3.11, 3.95
** 604842.882, 4130248.874, 44.74, 3.11, 3.95
** 604980.168, 4130111.588, 45.10, 3.11, 3.95
** 605151.075, 4129936.479, 45.68, 3.11, 3.95
** 605169.128, 4129917.975, 45.71, 3.11, 3.95
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LOCATION L0000352 VOLUME 604671.658 4130457.553 44.62
LOCATION L0000353 VOLUME 604677.050 4130450.982 44.62
LOCATION L0000354 VOLUME 604682.441 4130444.411 44.62
LOCATION L0000355 VOLUME 604687.833 4130437.840 44.60
LOCATION L0000356 VOLUME 604693.225 4130431.269 44.57
LOCATION L0000357 VOLUME 604698.616 4130424.698 44.50
LOCATION L0000358 VOLUME 604704.008 4130418.127 44.46
LOCATION L0000359 VOLUME 604709.400 4130411.556 44.42
LOCATION L0000360 VOLUME 604714.791 4130404.984 44.39
LOCATION L0000361 VOLUME 604720.183 4130398.413 44.37
LOCATION L0000362 VOLUME 604725.575 4130391.842 44.33
LOCATION L0000363 VOLUME 604730.967 4130385.271 44.30
LOCATION L0000364 VOLUME 604736.358 4130378.700 44.28
LOCATION L0000365 VOLUME 604741.750 4130372.129 44.27
LOCATION L0000366 VOLUME 604747.142 4130365.558 44.28
LOCATION L0000367 VOLUME 604752.533 4130358.987 44.30
LOCATION L0000368 VOLUME 604757.925 4130352.415 44.32
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LOCATION L0000371 VOLUME 604774.100 4130332.702 44.36
LOCATION L0000372 VOLUME 604779.492 4130326.131 44.37
LOCATION L0000373 VOLUME 604784.883 4130319.560 44.36
LOCATION L0000374 VOLUME 604790.275 4130312.989 44.33
LOCATION L0000375 VOLUME 604795.667 4130306.418 44.27
LOCATION L0000376 VOLUME 604801.059 4130299.846 44.28
LOCATION L0000377 VOLUME 604806.450 4130293.275 44.33
LOCATION L0000378 VOLUME 604811.842 4130286.704 44.40
LOCATION L0000379 VOLUME 604817.234 4130280.133 44.48
LOCATION L0000380 VOLUME 604822.625 4130273.562 44.61
LOCATION L0000381 VOLUME 604828.017 4130266.991 44.69
LOCATION L0000382 VOLUME 604833.409 4130260.420 44.74
LOCATION L0000383 VOLUME 604838.800 4130253.849 44.75
LOCATION L0000384 VOLUME 604844.342 4130247.414 44.73
LOCATION L0000385 VOLUME 604850.353 4130241.403 44.76
LOCATION L0000386 VOLUME 604856.363 4130235.393 44.80
LOCATION L0000387 VOLUME 604862.374 4130229.382 44.81
LOCATION L0000388 VOLUME 604868.384 4130223.372 44.80
LOCATION L0000389 VOLUME 604874.394 4130217.362 44.78
LOCATION L0000390 VOLUME 604880.405 4130211.351 44.76
LOCATION L0000391 VOLUME 604886.415 4130205.341 44.78
LOCATION L0000392 VOLUME 604892.426 4130199.330 44.79

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  LOCATION L0000393    VOLUME   604898.436 4130193.320 44.81
  LOCATION L0000394    VOLUME   604904.446 4130187.310 44.83
  LOCATION L0000395    VOLUME   604910.457 4130181.299 44.86
  LOCATION L0000396    VOLUME   604916.467 4130175.289 44.90
  LOCATION L0000397    VOLUME   604922.478 4130169.278 44.93
  LOCATION L0000398    VOLUME   604928.488 4130163.268 44.96
  LOCATION L0000399    VOLUME   604934.498 4130157.258 44.97
  LOCATION L0000400    VOLUME   604940.509 4130151.247 44.94
  LOCATION L0000401    VOLUME   604946.519 4130145.237 44.94
  LOCATION L0000402    VOLUME   604952.530 4130139.226 44.95
  LOCATION L0000403    VOLUME   604958.540 4130133.216 44.97
  LOCATION L0000404    VOLUME   604964.551 4130127.206 45.02
  LOCATION L0000405    VOLUME   604970.561 4130121.195 45.09
  LOCATION L0000406    VOLUME   604976.571 4130115.185 45.15
  LOCATION L0000407    VOLUME   604982.552 4130109.145 45.19
  LOCATION L0000408    VOLUME   604988.489 4130103.062 45.21
  LOCATION L0000409    VOLUME   604994.426 4130096.979 45.20
  LOCATION L0000410    VOLUME   605000.363 4130090.896 45.17
  LOCATION L0000411    VOLUME   605006.300 4130084.813 45.18
  LOCATION L0000412    VOLUME   605012.237 4130078.730 45.20
  LOCATION L0000413    VOLUME   605018.174 4130072.647 45.23
  LOCATION L0000414    VOLUME   605024.111 4130066.564 45.29
  LOCATION L0000415    VOLUME   605030.048 4130060.481 45.34
  LOCATION L0000416    VOLUME   605035.985 4130054.399 45.38
  LOCATION L0000417    VOLUME   605041.922 4130048.316 45.42
  LOCATION L0000418    VOLUME   605047.859 4130042.233 45.43
  LOCATION L0000419    VOLUME   605053.796 4130036.150 45.42
  LOCATION L0000420    VOLUME   605059.733 4130030.067 45.40
  LOCATION L0000421    VOLUME   605065.670 4130023.984 45.42
  LOCATION L0000422    VOLUME   605071.607 4130017.901 45.45
  LOCATION L0000423    VOLUME   605077.544 4130011.818 45.49
  LOCATION L0000424    VOLUME   605083.481 4130005.735 45.53
  LOCATION L0000425    VOLUME   605089.418 4129999.652 45.56
  LOCATION L0000426    VOLUME   605095.355 4129993.569 45.56
  LOCATION L0000427    VOLUME   605101.292 4129987.486 45.58
  LOCATION L0000428    VOLUME   605107.229 4129981.403 45.60
  LOCATION L0000429    VOLUME   605113.166 4129975.320 45.63
  LOCATION L0000430    VOLUME   605119.103 4129969.237 45.65
  LOCATION L0000431    VOLUME   605125.040 4129963.154 45.65
  LOCATION L0000432    VOLUME   605130.976 4129957.071 45.64
  LOCATION L0000433    VOLUME   605136.913 4129950.988 45.65
  LOCATION L0000434    VOLUME   605142.850 4129944.905 45.67
  LOCATION L0000435    VOLUME   605148.787 4129938.822 45.68
  LOCATION L0000436    VOLUME   605154.724 4129932.739 45.66
  LOCATION L0000437    VOLUME   605160.660 4129926.655 45.65
  LOCATION L0000438    VOLUME   605166.596 4129920.571 45.66
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
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** ------------------------------------------------------------------------
  URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
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EMISFACT L0000417 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000425 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000426 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000426 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000427 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000427 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000427 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000428 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000428 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

```
  EMISFACT L0000428    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000428    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000429    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT L0000429    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000429    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT L0000430    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000430    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000430    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000431    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000431    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000431    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000431    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000432    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000432    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000432    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000432    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000433    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000433    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT L0000434    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000435    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000435    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000435    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT L0000436    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000436    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000436    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000436    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000437    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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  EMISFACT L0000438    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000438    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000438    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  EMISFACT L0000438    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
  SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
```

```
  INCLUDED "2905 King_Const_Mit.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 8 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "2905 KING_CONST_MIT.AD\01H1GALL.PLT" 31
  PLOTFILE 8 ALL 1ST "2905 KING_CONST_MIT.AD\08H1GALL.PLT" 32
  PLOTFILE 24 ALL 1ST "2905 KING_CONST_MIT.AD\24H1GALL.PLT" 33
  PLOTFILE PERIOD ALL "2905 KING_CONST_MIT.AD\PE00GALL.PLT" 34
  SUMMFILE "2905 King_Const_Mit.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

*HARP - HRACalc v19044 4/4/2022 9:10:03 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\Variable Const\2905 King_Const_Mit_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
1			9901	DieselExhPM	0.00964	3.07E-06	3YrCancerHighEnd_Inh_FAH3to70	*	3.07E-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	3YrCancerHighEnd_Inh_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	0.00E+00

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	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 v19044 4/4/2022 9:10:03 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\Variable Const\2905 King_Const_Mit_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP
1			9901	DieselExhPM	0.478	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.478	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-01

SKIN	EYE	BONE/TEETH	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	1.91E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 4/4/2022 9:10:03 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\Variable Const\2905 King_Const_Mit_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR
1			9901	DieselExhPM	0.00964	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancerChronicHighEnd_Inh	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

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE
0.00E+00	*	9.64E-03	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	0.00E+00

EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 4/4/2022 5:41:50 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\Variable Const\2905 King_Const_Unmit_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
1			9901	DieselExhPM	0.0636	2.03E-05	3YrCancerHighEnd_Inh_FAH3to70	*	2.03E-05	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	3YrCancerHighEnd_Inh_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	0.00E+00

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	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 v19044 4/4/2022 5:41:50 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\Variable Const\2905 King_Const_Unmit_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN
1			9901	DieselExhPM	3.18	NonCancerAcute	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	3.18	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	0.00E+00

EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 4/4/2022 5:41:50 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\Variable Const\2905 King_Const_Unmit_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR
	1		9901	DieselExhPM	0.0636	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2		107028	Acrolein	0	NonCancerChronicHighEnd_Inh	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

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE
0.00E+00	*	6.36E-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	0.00E+00

EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 4/4/2022
** File: C:\Lakes\AERMOD View\2905 King Road\2905 King_Const_Variable\2905 King_Const_Variable
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\2905 King Road\2905 King_Const_\2905 King_Const
  MODELOPT CONC FLAT ELEV
  AVERTIME 1 8 24 PERIOD
  URBANOPT 1928000 Santa_Clara_County
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "2905 King_Const_Variable.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site Construction
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.009460502
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 10
** 604875.056, 4130183.443, 44.76, 3.11, 3.95
** 604780.422, 4130100.854, 44.38, 3.11, 3.95
** 604832.040, 4130035.471, 44.30, 3.11, 3.95
** 604934.416, 4130117.199, 44.94, 3.11, 3.95
** 604886.239, 4130166.237, 44.87, 3.11, 3.95
```

** 604810.533, 4130106.876, 44.27, 3.11, 3.95
** 604838.063, 4130064.721, 44.20, 3.11, 3.95
** 604906.887, 4130122.361, 45.08, 3.11, 3.95
** 604888.820, 4130144.729, 45.05, 3.11, 3.95
** 604836.342, 4130103.435, 44.32, 3.11, 3.95
** ----------

LOCATION L0000527 VOLUME 604871.853 4130180.648 44.76
LOCATION L0000528 VOLUME 604865.449 4130175.059 44.81
LOCATION L0000529 VOLUME 604859.045 4130169.470 44.82
LOCATION L0000530 VOLUME 604852.641 4130163.881 44.80
LOCATION L0000531 VOLUME 604846.237 4130158.292 44.74
LOCATION L0000532 VOLUME 604839.833 4130152.703 44.68
LOCATION L0000533 VOLUME 604833.429 4130147.114 44.59
LOCATION L0000534 VOLUME 604827.025 4130141.525 44.49
LOCATION L0000535 VOLUME 604820.621 4130135.936 44.39
LOCATION L0000536 VOLUME 604814.217 4130130.347 44.35
LOCATION L0000537 VOLUME 604807.812 4130124.758 44.30
LOCATION L0000538 VOLUME 604801.408 4130119.169 44.25
LOCATION L0000539 VOLUME 604795.004 4130113.580 44.31
LOCATION L0000540 VOLUME 604788.600 4130107.991 44.37
LOCATION L0000541 VOLUME 604782.196 4130102.402 44.40
LOCATION L0000542 VOLUME 604784.230 4130096.030 44.39
LOCATION L0000543 VOLUME 604789.497 4130089.358 44.41
LOCATION L0000544 VOLUME 604794.764 4130082.687 44.42
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LOCATION L0000563 VOLUME 604911.241 4130098.698 44.89
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LOCATION L0000565 VOLUME 604924.526 4130109.304 44.93
LOCATION L0000566 VOLUME 604931.169 4130114.607 44.95
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LOCATION L0000568 VOLUME 604925.414 4130126.362 44.96
LOCATION L0000569 VOLUME 604919.457 4130132.426 44.96
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LOCATION L0000585 VOLUME 604816.515 4130111.567 44.25
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LOCATION L0000587 VOLUME 604815.671 4130099.007 44.36
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** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC King Road Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.0000121

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** SZINIT = 2.89
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  LOCATION L0000399    VOLUME   604934.498 4130157.258 44.97
  LOCATION L0000400    VOLUME   604940.509 4130151.247 44.94
  LOCATION L0000401    VOLUME   604946.519 4130145.237 44.94
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  LOCATION L0000405    VOLUME   604970.561 4130121.195 45.09
  LOCATION L0000406    VOLUME   604976.571 4130115.185 45.15
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  LOCATION L0000412    VOLUME   605012.237 4130078.730 45.20
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  LOCATION L0000431    VOLUME   605125.040 4129963.154 45.65
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  LOCATION L0000433    VOLUME   605136.913 4129950.988 45.65
  LOCATION L0000434    VOLUME   605142.850 4129944.905 45.67
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** Source Parameters **
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SRCPARAM L0000416 0.0000001375 3.11 3.95 2.89

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  SRCPARAM L0000419    0.0000001375    3.11    3.95    2.89
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  SRCPARAM L0000428    0.0000001375    3.11    3.95    2.89
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  SRCPARAM L0000436    0.0000001375    3.11    3.95    2.89
  SRCPARAM L0000437    0.0000001375    3.11    3.95    2.89
  SRCPARAM L0000438    0.0000001375    3.11    3.95    2.89
** ------------------------------------------------------------------------
  URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
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  EMISFACT L0000532    HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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  SRCGROUP ALL
SO FINISHED
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** AERMOD Receptor Pathway
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RE STARTING
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  INCLUDED "2905 King_Const_Variable.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
  PROFBASE 40.5 METERS
ME FINISHED
**
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** AERMOD Output Pathway
**************************************
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
  RECTABLE 8 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "2905 KING_CONST_VARIABLE.AD\01H1GALL.PLT" 31
  PLOTFILE 8 ALL 1ST "2905 KING_CONST_VARIABLE.AD\08H1GALL.PLT" 32
  PLOTFILE 24 ALL 1ST "2905 KING_CONST_VARIABLE.AD\24H1GALL.PLT" 33
  PLOTFILE PERIOD ALL "2905 KING_CONST_VARIABLE.AD\PE00GALL.PLT" 34
  SUMMFILE "2905 King_Const_Variable.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. 10.2.1
** Lakes Environmental Software Inc.
** Date: 4/4/2022
** File: C:\Lakes\AERMOD View\2905 King Road\2905 King_Ops\2905 King_Ops.ADI
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** AERMOD Control Pathway
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**
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CO STARTING
  TITLEONE C:\Lakes\AERMOD View\2905 King Road\2905 King_Const_\2905 King_Const
  MODELOPT CONC FLAT ELEV
  AVERTIME 1 8 24 PERIOD
  URBANOPT 1928000 Santa_Clara_County
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL "2905 King_Ops.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. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC King Road Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 8.74E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 604663.570, 4130467.410, 44.64, 3.11, 3.95
** 604842.882, 4130248.874, 44.74, 3.11, 3.95
** 604980.168, 4130111.588, 45.10, 3.11, 3.95
** 605151.075, 4129936.479, 45.68, 3.11, 3.95
** 605169.128, 4129917.975, 45.71, 3.11, 3.95
```

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LOCATION L0000793 VOLUME 604666.266 4130464.125 44.64
LOCATION L0000794 VOLUME 604671.658 4130457.553 44.62
LOCATION L0000795 VOLUME 604677.050 4130450.982 44.62
LOCATION L0000796 VOLUME 604682.441 4130444.411 44.62
LOCATION L0000797 VOLUME 604687.833 4130437.840 44.60
LOCATION L0000798 VOLUME 604693.225 4130431.269 44.57
LOCATION L0000799 VOLUME 604698.616 4130424.698 44.50
LOCATION L0000800 VOLUME 604704.008 4130418.127 44.46
LOCATION L0000801 VOLUME 604709.400 4130411.556 44.42
LOCATION L0000802 VOLUME 604714.791 4130404.984 44.39
LOCATION L0000803 VOLUME 604720.183 4130398.413 44.37
LOCATION L0000804 VOLUME 604725.575 4130391.842 44.33
LOCATION L0000805 VOLUME 604730.967 4130385.271 44.30
LOCATION L0000806 VOLUME 604736.358 4130378.700 44.28
LOCATION L0000807 VOLUME 604741.750 4130372.129 44.27
LOCATION L0000808 VOLUME 604747.142 4130365.558 44.28
LOCATION L0000809 VOLUME 604752.533 4130358.987 44.30
LOCATION L0000810 VOLUME 604757.925 4130352.415 44.32
LOCATION L0000811 VOLUME 604763.317 4130345.844 44.34
LOCATION L0000812 VOLUME 604768.708 4130339.273 44.34
LOCATION L0000813 VOLUME 604774.100 4130332.702 44.36
LOCATION L0000814 VOLUME 604779.492 4130326.131 44.37
LOCATION L0000815 VOLUME 604784.883 4130319.560 44.36
LOCATION L0000816 VOLUME 604790.275 4130312.989 44.33
LOCATION L0000817 VOLUME 604795.667 4130306.418 44.27
LOCATION L0000818 VOLUME 604801.059 4130299.846 44.28
LOCATION L0000819 VOLUME 604806.450 4130293.275 44.33
LOCATION L0000820 VOLUME 604811.842 4130286.704 44.40
LOCATION L0000821 VOLUME 604817.234 4130280.133 44.48
LOCATION L0000822 VOLUME 604822.625 4130273.562 44.61
LOCATION L0000823 VOLUME 604828.017 4130266.991 44.69
LOCATION L0000824 VOLUME 604833.409 4130260.420 44.74
LOCATION L0000825 VOLUME 604838.800 4130253.849 44.75
LOCATION L0000826 VOLUME 604844.342 4130247.414 44.73
LOCATION L0000827 VOLUME 604850.353 4130241.403 44.76
LOCATION L0000828 VOLUME 604856.363 4130235.393 44.80
LOCATION L0000829 VOLUME 604862.374 4130229.382 44.81
LOCATION L0000830 VOLUME 604868.384 4130223.372 44.80
LOCATION L0000831 VOLUME 604874.394 4130217.362 44.78
LOCATION L0000832 VOLUME 604880.405 4130211.351 44.76
LOCATION L0000833 VOLUME 604886.415 4130205.341 44.78
LOCATION L0000834 VOLUME 604892.426 4130199.330 44.79
LOCATION L0000835 VOLUME 604898.436 4130193.320 44.81
LOCATION L0000836 VOLUME 604904.446 4130187.310 44.83
LOCATION L0000837 VOLUME 604910.457 4130181.299 44.86
LOCATION L0000838 VOLUME 604916.467 4130175.289 44.90
LOCATION L0000839 VOLUME 604922.478 4130169.278 44.93
LOCATION L0000840 VOLUME 604928.488 4130163.268 44.96
LOCATION L0000841 VOLUME 604934.498 4130157.258 44.97
LOCATION L0000842 VOLUME 604940.509 4130151.247 44.94

LOCATION L0000843 VOLUME 604946.519 4130145.237 44.94
LOCATION L0000844 VOLUME 604952.530 4130139.226 44.95
LOCATION L0000845 VOLUME 604958.540 4130133.216 44.97
LOCATION L0000846 VOLUME 604964.551 4130127.206 45.02
LOCATION L0000847 VOLUME 604970.561 4130121.195 45.09
LOCATION L0000848 VOLUME 604976.571 4130115.185 45.15
LOCATION L0000849 VOLUME 604982.552 4130109.145 45.19
LOCATION L0000850 VOLUME 604988.489 4130103.062 45.21
LOCATION L0000851 VOLUME 604994.426 4130096.979 45.20
LOCATION L0000852 VOLUME 605000.363 4130090.896 45.17
LOCATION L0000853 VOLUME 605006.300 4130084.813 45.18
LOCATION L0000854 VOLUME 605012.237 4130078.730 45.20
LOCATION L0000855 VOLUME 605018.174 4130072.647 45.23
LOCATION L0000856 VOLUME 605024.111 4130066.564 45.29
LOCATION L0000857 VOLUME 605030.048 4130060.481 45.34
LOCATION L0000858 VOLUME 605035.985 4130054.399 45.38
LOCATION L0000859 VOLUME 605041.922 4130048.316 45.42
LOCATION L0000860 VOLUME 605047.859 4130042.233 45.43
LOCATION L0000861 VOLUME 605053.796 4130036.150 45.42
LOCATION L0000862 VOLUME 605059.733 4130030.067 45.40
LOCATION L0000863 VOLUME 605065.670 4130023.984 45.42
LOCATION L0000864 VOLUME 605071.607 4130017.901 45.45
LOCATION L0000865 VOLUME 605077.544 4130011.818 45.49
LOCATION L0000866 VOLUME 605083.481 4130005.735 45.53
LOCATION L0000867 VOLUME 605089.418 4129999.652 45.56
LOCATION L0000868 VOLUME 605095.355 4129993.569 45.56
LOCATION L0000869 VOLUME 605101.292 4129987.486 45.58
LOCATION L0000870 VOLUME 605107.229 4129981.403 45.60
LOCATION L0000871 VOLUME 605113.166 4129975.320 45.63
LOCATION L0000872 VOLUME 605119.103 4129969.237 45.65
LOCATION L0000873 VOLUME 605125.040 4129963.154 45.65
LOCATION L0000874 VOLUME 605130.976 4129957.071 45.64
LOCATION L0000875 VOLUME 605136.913 4129950.988 45.65
LOCATION L0000876 VOLUME 605142.850 4129944.905 45.67
LOCATION L0000877 VOLUME 605148.787 4129938.822 45.68
LOCATION L0000878 VOLUME 605154.724 4129932.739 45.66
LOCATION L0000879 VOLUME 605160.660 4129926.655 45.65
LOCATION L0000880 VOLUME 605166.596 4129920.571 45.66
** End of LINE VOLUME Source ID = SLINE2
** ----------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Loading Area
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.58E-09
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 604814.240, 4130101.485, 44.32, 3.11, 3.95

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** 604850.121, 4130129.195, 44.44, 3.11, 3.95
** 604860.600, 4130137.288, 44.92, 3.11, 3.95
** ----------------------------------------------------------------------
  LOCATION L0000898    VOLUME   604817.603 4130104.082 44.31
  LOCATION L0000899    VOLUME   604824.331 4130109.278 44.26
  LOCATION L0000900    VOLUME   604831.058 4130114.473 44.24
  LOCATION L0000901    VOLUME   604837.785 4130119.668 44.26
  LOCATION L0000902    VOLUME   604844.513 4130124.864 44.36
  LOCATION L0000903    VOLUME   604851.240 4130130.059 44.55
  LOCATION L0000904    VOLUME   604857.968 4130135.255 44.73
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Onsite Trucks
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.91E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 604878.961, 4130194.205, 44.84, 3.11, 3.95
** 604769.715, 4130100.567, 44.40, 3.11, 3.95
** ----------------------------------------------------------------------
  LOCATION L0000881    VOLUME   604875.734 4130191.440 44.75
  LOCATION L0000882    VOLUME   604869.280 4130185.908 44.75
  LOCATION L0000883    VOLUME   604862.826 4130180.376 44.79
  LOCATION L0000884    VOLUME   604856.373 4130174.844 44.82
  LOCATION L0000885    VOLUME   604849.919 4130169.313 44.81
  LOCATION L0000886    VOLUME   604843.465 4130163.781 44.76
  LOCATION L0000887    VOLUME   604837.012 4130158.249 44.70
  LOCATION L0000888    VOLUME   604830.558 4130152.717 44.63
  LOCATION L0000889    VOLUME   604824.104 4130147.186 44.54
  LOCATION L0000890    VOLUME   604817.651 4130141.654 44.48
  LOCATION L0000891    VOLUME   604811.197 4130136.122 44.44
  LOCATION L0000892    VOLUME   604804.743 4130130.591 44.39
  LOCATION L0000893    VOLUME   604798.290 4130125.059 44.34
  LOCATION L0000894    VOLUME   604791.836 4130119.527 44.33
  LOCATION L0000895    VOLUME   604785.382 4130113.995 44.39
  LOCATION L0000896    VOLUME   604778.929 4130108.464 44.42
  LOCATION L0000897    VOLUME   604772.475 4130102.932 44.43
** End of LINE VOLUME Source ID = SLINE4
  LOCATION STCK1       POINT     604812.400  4130076.700      44.400
** DESCRSRC Backup Generator
** Source Parameters **
** LINE VOLUME Source ID = SLINE2
  SRCPARAM L0000793    0.000000000993     3.11     3.95     2.89
  SRCPARAM L0000794    0.000000000993     3.11     3.95     2.89
  SRCPARAM L0000795    0.000000000993     3.11     3.95     2.89
  SRCPARAM L0000796    0.000000000993     3.11     3.95     2.89
```

SRCPARAM L0000797 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000798 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000799 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000800 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000801 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000802 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000803 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000804 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000805 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000806 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000807 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000808 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000809 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000810 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000811 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000812 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000813 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000814 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000815 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000816 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000817 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000818 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000819 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000820 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000821 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000822 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000823 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000824 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000825 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000826 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000827 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000828 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000829 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000830 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000831 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000832 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000833 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000834 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000835 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000836 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000837 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000838 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000839 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000840 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000841 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000842 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000843 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000844 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000845 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000846 0.000000000993 3.11 3.95 2.89
SRCPARAM L0000847 0.000000000993 3.11 3.95 2.89

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  SRCPARAM L0000848    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000849    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000850    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000851    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000852    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000853    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000854    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000855    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000856    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000857    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000858    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000859    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000860    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000861    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000862    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000863    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000864    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000865    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000866    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000867    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000868    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000869    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000870    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000871    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000872    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000873    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000874    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000875    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000876    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000877    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000878    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000879    0.000000000993    3.11    3.95    2.89
  SRCPARAM L0000880    0.000000000993    3.11    3.95    2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
  SRCPARAM L0000898    0.000000000226    3.11    3.95    2.89
  SRCPARAM L0000899    0.000000000226    3.11    3.95    2.89
  SRCPARAM L0000900    0.000000000226    3.11    3.95    2.89
  SRCPARAM L0000901    0.000000000226    3.11    3.95    2.89
  SRCPARAM L0000902    0.000000000226    3.11    3.95    2.89
  SRCPARAM L0000903    0.000000000226    3.11    3.95    2.89
  SRCPARAM L0000904    0.000000000226    3.11    3.95    2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
  SRCPARAM L0000881    0.000000001124    3.11    3.95    2.89
  SRCPARAM L0000882    0.000000001124    3.11    3.95    2.89
  SRCPARAM L0000883    0.000000001124    3.11    3.95    2.89
  SRCPARAM L0000884    0.000000001124    3.11    3.95    2.89
  SRCPARAM L0000885    0.000000001124    3.11    3.95    2.89
  SRCPARAM L0000886    0.000000001124    3.11    3.95    2.89
  SRCPARAM L0000887    0.000000001124    3.11    3.95    2.89
```

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  SRCPARAM L0000888    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000889    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000890    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000891    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000892    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000893    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000894    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000895    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000896    0.000000001124     3.11     3.95     2.89
  SRCPARAM L0000897    0.000000001124     3.11     3.95     2.89
** ----------------------------------------------------------------
  SRCPARAM STCK1       0.000130318     5.000   763.850 224.39100     0.229
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
  INCLUDED "2905 King_Ops.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 8 1ST
  RECTABLE 24 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST "2905 KING_OPS.AD\01H1GALL.PLT" 31
  PLOTFILE 8 ALL 1ST "2905 KING_OPS.AD\08H1GALL.PLT" 32
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  PLOTFILE 24 ALL 1ST "2905 KING_OPS.AD\24H1GALL.PLT" 33
  PLOTFILE PERIOD ALL "2905 KING_OPS.AD\PE00GALL.PLT" 34
  SUMMFILE "2905 King_Ops.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** 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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*HARP - HRACalc v19044 4/5/2022 12:19:09 AM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\2905 King_Ops_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
	1		9901	DieselExhPM	0.00036	2.45E-07	30YrCancerHighEnd_Inh_FAH3to70	*	2.45E-07	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	30YrCancerHighEnd_Inh_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	0.00E+00

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	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 v19044 4/5/2022 12:19:09 AM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\2905 King_Ops_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP
1			9901	DieselExhPM	0.011	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.011	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-03

SKIN	EYE	BONE/TEETH	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	4.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 4/5/2022 12:19:09 AM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\2905 King\2905 King_Ops_HRAInput.hra

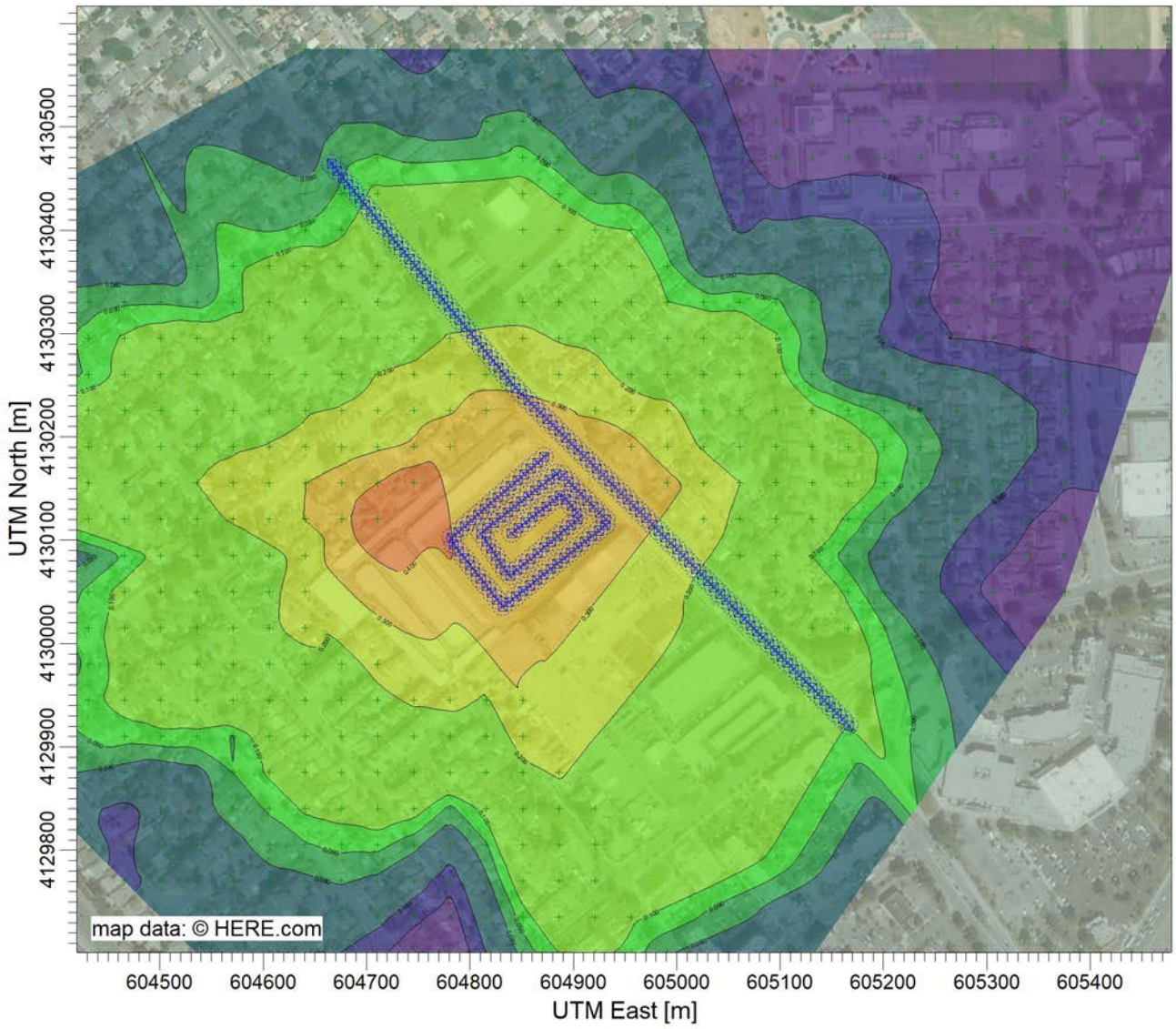
INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR
1			9901	DieselExhPM	0.00036	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancerChronicHighEnd_Inh	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

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE
0.00E+00	*	3.60E-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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

PROJECT TITLE:

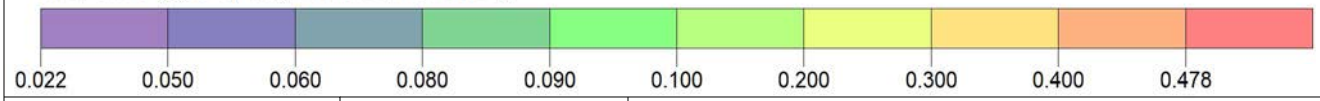
2905 South King Construction 1 hr



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

ug/m^3

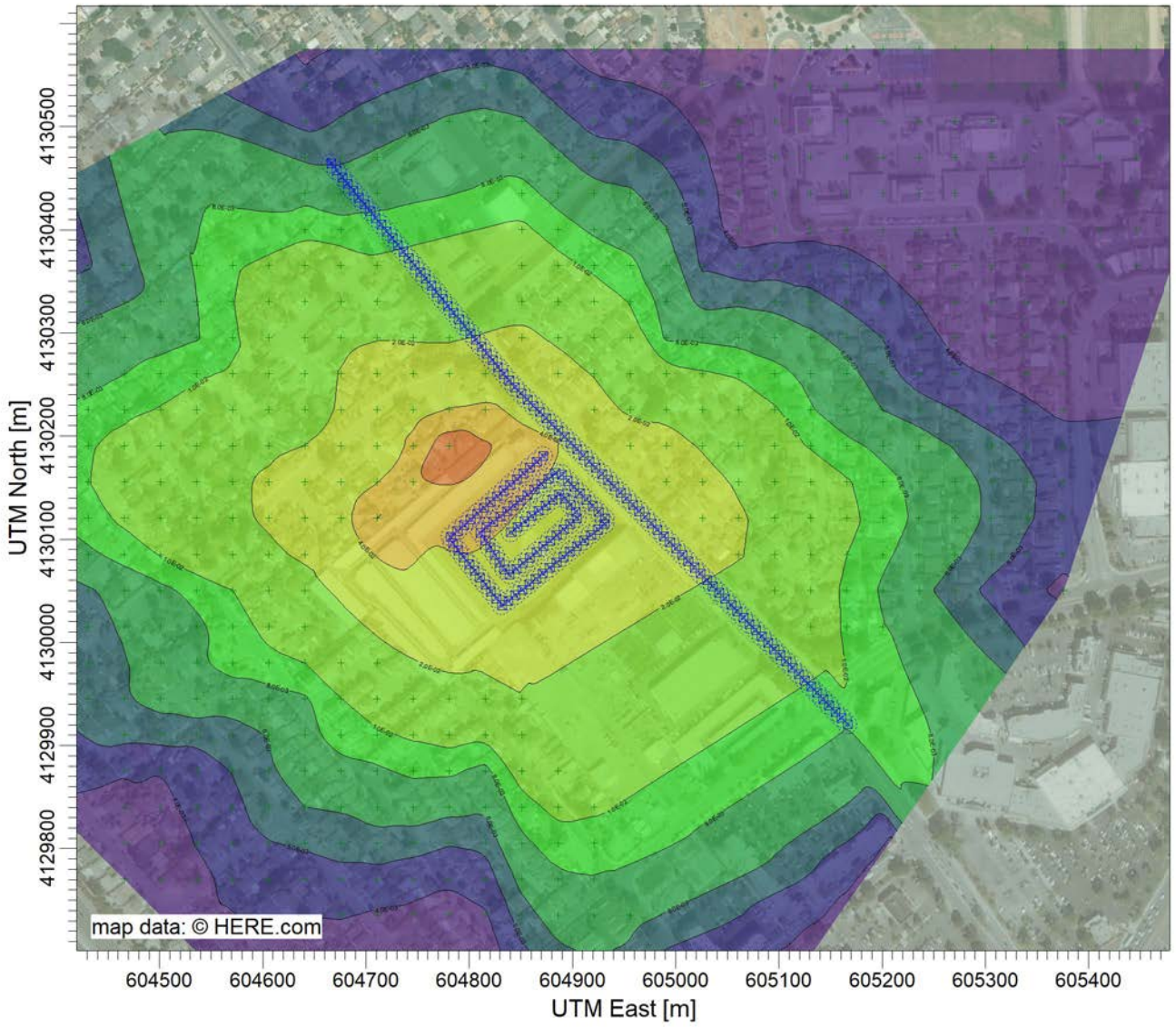
Max: 0.478 [ug/m^3] at (604710.92, 4130120.33)



COMMENTS:	SOURCES: **2**	COMPANY NAME:	
	RECEPTORS: **591**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:6,655 0 0.2 km	
	MAX: **0.478 ug/m^3**	DATE: **4/4/2022**	PROJECT NO.:

PROJECT TITLE:

2905 South King Construction 24 hr



PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

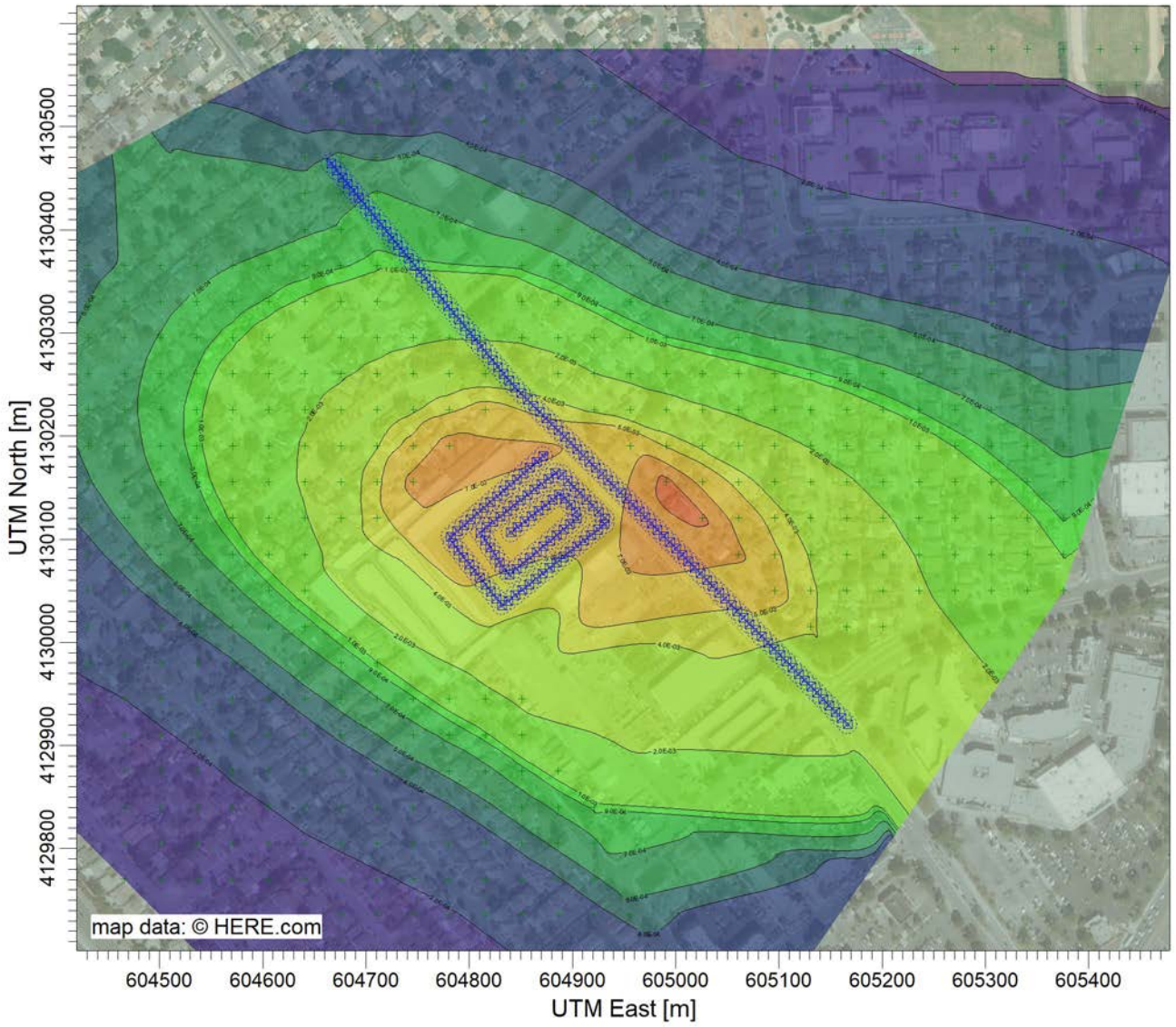
Max: 5.6E-02 [ug/m^3] at (604780.92, 4130190.33)

1.6E-03 4.0E-03 5.0E-03 6.0E-03 8.0E-03 1.0E-02 2.0E-02 4.0E-02 5.0E-02 5.6E-02

COMMENTS:	SOURCES: **2**	COMPANY NAME:	
	RECEPTORS: **591**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:6,654 0 0.2 km	
	MAX: **5.6E-02 ug/m^3**	DATE: **4/4/2022**	PROJECT NO.:

PROJECT TITLE:

2905 South King Construction Period



PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL ug/m^3

Max: 9.6E-03 [ug/m^3] at (604990.92, 4130155.33)

9.6E-05 1.0E-04 2.0E-04 4.0E-04 5.0E-04 7.0E-04 9.0E-04 1.0E-03 2.0E-03 4.0E-03 5.0E-03 7.0E-03 9.0E-03 9.6E-03

COMMENTS:	SOURCES: **2**	COMPANY NAME:	
	RECEPTORS: **591**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:6,654 0 0.2 km	
	MAX: **9.6E-03 ug/m^3**	DATE: **4/4/2022**	PROJECT NO.: