

Appendix A
Air Quality Assessment

FAIRFIELD INN & SUITES 1669 MONTEREY ROAD AIR QUALITY ASSESSMENT

San José, California

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Introduction

This report addresses the potential air quality and community risk impacts associated with the construction of the proposed hotel development located at 1669 Monterey Road in San José, California. Air quality impacts from this project would be associated with the demolition of the existing land uses, construction of the new building and infrastructure, and operation of the project. Air pollutant emissions were predicted using appropriate computer models. In addition, the potential health risk impacts associated with construction and operation of the project, and the impact of existing toxic air contaminant (TAC) sources affecting the nearby sensitive receptors, were evaluated. The analysis was conducted following guidance provided by the Bay Area Air Quality Management District (BAAQMD).¹

Project Description

The project site is currently developed with an existing motel and associated parking lot. The project proposes to demolish the existing facilities and construct a five-story hotel with 120 guestrooms and 100 outdoor parking spaces.

Setting

The project is located in Santa Clara County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM₁₀), and fine particulate matter (PM_{2.5}).

Air Pollutants of Concern

High ozone levels are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO_x). These precursor pollutants react under certain meteorological conditions to form high ozone levels. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ozone levels. The highest ozone levels in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone levels aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant of the Bay Area. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM₁₀) and fine particulate matter where particles have a diameter of 2.5 micrometers or less (PM_{2.5}). Elevated concentrations of PM₁₀ and PM_{2.5} are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

¹ Bay Area Air Quality Management District, *CEQA Air Quality Guidelines*, May 2017.

Toxic Air Contaminants

TACs are a broad class of compounds known to cause morbidity or mortality, often because they cause cancer. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, State, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs. Health risks from TACs are estimated using the Office of Environmental Health Hazard Assessment (OEHHA) risk assessment guidelines, which were published in February of 2015.² See *Attachment 1* for a detailed description of the community risk modeling methodology used in this assessment.

Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, people over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools. For cancer risk assessments, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include infants and small children. The closest sensitive receptors to the project site are the single-family residences to the west. There are more sensitive receptors to the southwest and north of the site at farther distances. This project would not introduce new sensitive receptors (i.e., residents) to the area.

Regulatory Setting

Federal Regulations

The United States Environmental Protection Agency (EPA) sets nationwide emission standards for mobile sources, which include on-road (highway) motor vehicles such trucks, buses, and automobiles, and non-road (off-road) vehicles and equipment used in construction, agricultural, industrial, and mining activities (such as bulldozers and loaders). The EPA also sets nationwide

² OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

fuel standards. However, California also has the ability to set motor vehicle emission standards and standards for fuel, as long as they are the same or more stringent than the nationwide standards.

In the past decade the EPA has established a number of emission standards for on- and non-road heavy-duty diesel engines used in trucks and other equipment. This was done in part because diesel engines are a significant source of NO_x and particulate matter (PM_{2.5}) and because the EPA has identified DPM as a probable carcinogen. Implementation of the heavy-duty diesel on-road vehicle standards and the non-road diesel engine standards are estimated to reduce particulate matter and NO_x emissions from diesel engines up to 95 percent in 2030 when the heavy-duty vehicle fleet is completely replaced with newer heavy-duty vehicles that comply with these emission standards.³

In concert with the diesel engine emission standards, the EPA has also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of particulate matter in diesel-fueled engine exhaust. Current standards have reduced the amount of sulfur allowed by 97 percent for highway diesel fuel (from 500 parts per million by weight [ppmw] to 15 ppmw), and by 99 percent for off-highway diesel fuel (from about 3,000 ppmw to 15 ppmw). The low sulfur highway fuel (15 ppmw sulfur), also called ultra-low sulfur diesel (ULSD), is currently required for use by all diesel vehicles in the U.S.

All of the above federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications making the requirements more stringent or the implementation dates sooner.

State Regulations

To address the issue of diesel emissions in the state, CARB developed the *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*.⁴ In addition to requiring more stringent emission standards for new on-road and off-road mobile sources and stationary diesel-fueled engines to reduce particulate matter emissions by 90 percent, a significant component of the plan involves application of emission control strategies to existing diesel vehicles and equipment. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the federal on-road and non-road diesel engine emission standards for new engines, as well as adoption of regulations for low sulfur fuel in California.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. CARB regulations require on-road diesel trucks to be retrofitted with particulate matter controls or replaced to meet 2010 or later engine standards that have much lower DPM and PM_{2.5} emissions. This regulation will substantially reduce these emissions between 2013 and 2023. While new trucks and buses will meet strict federal standards, this measure is intended to accelerate the rate at which the fleet either turns over so there are more cleaner vehicles on the road or is retrofitted

³ USEPA, 2000. *Regulatory Announcement, Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*. EPA420-F-00-057. December.

⁴ California Air Resources Board, 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October.

to meet similar standards. With this regulation, older, more polluting trucks would be removed from the roads sooner.

CARB has also adopted and implemented regulations to reduce DPM and NO_x emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce particulate matter and NO_x exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent federal off-road equipment engine emission limits for new vehicles, will significantly reduce emissions of DPM and NO_x.

Bay Area Air Quality Management District (BAAQMD)

BAAQMD has jurisdiction over an approximately 5,600-square mile area, commonly referred to as the San Francisco Bay Area (Bay Area). The District's boundary encompasses the nine San Francisco Bay Area counties, including Alameda County, Contra Costa County, Marin County, San Francisco County, San Mateo County, Santa Clara County, Napa County, southwestern Solano County, and southern Sonoma County.

BAAQMD is the lead agency in developing plans to address attainment and maintenance of the NAAQS and CAAQS. The District also has permit authority over most types of stationary equipment utilized for the proposed project. The BAAQMD is responsible for permitting and inspection of stationary sources; enforcement of regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances are minimized.

BAAQMD's Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.⁵ The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program is being implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses will be used to focus emission reduction measures in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. Overburdened communities are areas located (i) within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0 implemented by OEHHA, as having an overall score at or above

⁵ See BAAQMD: <https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program>, accessed 2/18/2021.

the 70th percentile, or (ii) within 1,000 feet of any such census tract.⁶ The BAAQMD has identified six communities as impacted: Concord, Richmond/San Pablo, Western Alameda County, San José, Redwood City/East Palo Alto, and Eastern San Francisco. The project site is located in the San José CARE area but not within an overburdened area as identified by CalEnviroScreen as the Project site is scored at the 65th percentile.⁷

The BAAQMD California Environmental Quality Act (CEQA) *Air Quality Guidelines*⁸ were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They also include assessment methodologies for TACs, odors, and GHG emissions.

San José Envision 2040 General Plan

The San José Envision 2040 General Plan includes goals, policies, and actions to reduce exposure of the City's sensitive population to exposure of air pollution and toxic air contaminants or TACs. The following goals, policies, and actions are applicable to the proposed project and this assessment:

Applicable Goals – Air Pollutant Emission Reduction

Goal MS-10 Minimize emissions from new development.

Applicable Policies – Air Pollutant Emission Reduction

- MS-10.1 Assess projected air emissions from new development in conformance with the Bay Area Air Quality Management District (BAAQMD) CEQA Guidelines and relative to state and federal standards. Identify and implement feasible air emission reduction measures.
- MS-10.2 Consider the cumulative air quality impacts from proposed developments for proposed land use designation changes and new development, consistent with the region's Clean Air Plan and State law.
- MS-10.3 Promote the expansion and improvement of public transportation services and facilities, where appropriate, to both encourage energy conservation and reduce air pollution.
- MS-10.5 In order to reduce vehicle miles traveled and traffic congestion, require new development within 2,000 feet of an existing or planned transit station to encourage the use of public transit and minimize the dependence on the automobile through the application of site design guidelines and transit incentives.

⁶ See BAAQMD: https://www.baaqmd.gov/~/_media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofverburdenedcommunities-pdf.pdf?la=en, accessed 10/1/2021.

⁷ OEHA, CalEnviroScreen 4.0 Indicator Maps <https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40>

⁸ Bay Area Air Quality Management District, 2017. *CEQA Air Quality Guidelines*. May.

- MS-10.7 Encourage regional and statewide air pollutant emission reduction through energy conservation to improve air quality.
- MS-10.11 Enforce the City’s wood-burning appliance ordinance to limit air pollutant emissions from residential and commercial buildings.
- MS-10.13 As a part of City of San José Sustainable City efforts, educate the public about air polluting household consumer products and activities that generate air pollution. Increase public awareness about the alternative products and activities that reduce air pollutant emissions.

Applicable Goals – Toxic Air Contaminants

- Goal MS-11 Minimize exposure of people to air pollution and toxic air contaminants such as ozone, carbon monoxide, lead, and particulate matter.

Applicable Policies – Toxic Air Contaminants

- MS-11.2 For projects that emit toxic air contaminants, require project proponents to prepare health risk assessments in accordance with BAAQMD-recommended procedures as part of environmental review and employ effective mitigation to reduce possible health risks to a less than significant level. Alternatively, require new projects (such as, but not limited to, industrial, manufacturing, and processing facilities) that are sources of TACs to be located an adequate distance from residential areas and other sensitive receptors.
- MS-11.4 Encourage the installation of appropriate air filtration at existing schools, residences, and other sensitive receptor uses adversely affected by pollution sources.
- MS-11.5 Encourage the use of pollution absorbing trees and vegetation in buffer areas between substantial sources of TACs and sensitive land uses.

Actions – Toxic Air Contaminants

- MS-11.6 Develop and adopt a comprehensive Community Risk Reduction Plan that includes: baseline inventory of toxic air contaminants (TACs) and particulate matter smaller than 2.5 microns (PM2.5), emissions from all sources, emissions reduction targets, and enforceable emission reduction strategies and performance measures. The Community Risk Reduction Plan will include enforcement and monitoring tools to ensure regular review of progress toward the emission reduction targets, progress reporting to the public and responsible agencies, and periodic updates of the plan, as appropriate.
- MS-11.7 Consult with BAAQMD to identify stationary and mobile TAC sources and determine the need for and requirements of a health risk assessment for proposed developments.

MS-11.8 For new projects that generate truck traffic, require signage which reminds drivers that the State truck idling law limits truck idling to five minutes.

Applicable Goals – Construction Air Emissions

Goal MS-13 Minimize air pollutant emissions during demolition and construction activities

Applicable Policies – Construction Air Emissions

MS-13.1 Include dust, particulate matter, and construction equipment exhaust control measures as conditions of approval for subdivision maps, site development and planned development permits, grading permits, and demolition permits. At minimum, conditions shall conform to construction mitigation measures recommended in the current BAAQMD CEQA Guidelines for the relevant project size and type.

Applicable Actions – Construction Air Emissions

MS-13.4 Adopt and periodically update dust, particulate, and exhaust control standard measures for demolition and grading activities to include on project plans as conditions of approval based upon construction mitigation measures in the BAAQMD CEQA Guidelines.

Significance Thresholds

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA and these significance thresholds were contained in the District’s 2011 *CEQA Air Quality Guidelines*. These thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA. The thresholds were challenged through a series of court challenges and were mostly upheld. BAAQMD updated its thresholds in the *CEQA Air Quality Guidelines* in 2017. The latest BAAQMD significance thresholds that were used in this analysis and are summarized in Table 1. Community health risks are considered significant if they exceed these thresholds.

Table 1. BAAQMD CEQA Significance Thresholds

Criteria Air Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
ROG	54	54	10
NO _x	54	54	10
PM ₁₀	82 (Exhaust)	82	15
PM _{2.5}	54 (Exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust	Construction Dust Ordinance or other Best Management Practices	None	
Health Risks and Hazards	Single Sources Within 1,000-foot Zone of Influence	Combined Sources (Cumulative from all sources within 1000-foot zone of influence)	
Excess Cancer Risk	10 per one million	100 per one million	
Hazard Index	1.0	10.0	
Incremental annual PM _{2.5}	0.3 µg/m ³	0.8 µg/m ³	
Note: ROG = reactive organic gases, NO _x = nitrogen oxides, PM ₁₀ = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, PM _{2.5} = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less.			

Source: Bay Area Air Quality Management District, 2017

AIR QUALITY IMPACTS AND MITIGATION MEASURES

Impact AIR-1: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The Bay Area is considered a non-attainment area for ground-level O₃ and PM_{2.5} under both the NAAQS and the CAAQS. The area is also considered non-attainment for PM₁₀ under the CAAQS, but not the NAAQS. The area has attained both State and Federal ambient air quality standards for carbon monoxide. As part of an effort to attain and maintain ambient air quality standards for O₃, PM_{2.5} and PM₁₀, the BAAQMD has established thresholds of significance for these air pollutants and their precursors. The O₃ precursor pollutant thresholds are for ROG and NO_x, while PM₁₀, and PM_{2.5} have specific thresholds. The thresholds apply to both construction period emissions and operational period emissions.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types, size, and anticipated construction schedule were input to CalEEMod. The CARB Emission FACTors 2021 (EMFAC2021) model was used to predict emissions from construction traffic, which includes worker travel, vendor trucks, and haul trucks.⁹ The CalEEMod model output along with construction inputs are included in *Attachment 2* and EMFAC2021 vehicle emissions modeling outputs are included in *Attachment 3*.

CalEEMod Inputs

Land Use Inputs

The proposed project land uses were entered into CalEEMod as described in Table 2.

Table 2. Summary of Project Land Use Inputs

Project Land Uses	Size	Units	Square Feet (sf)*	Acreage*
Hotel	120	Rooms	174,240	4.9
Parking Lot	100	Parking Spaces	40,000	
Notes: *CalEEMod default square footage and acreage used.				

Construction Inputs

CalEEMod computes annual emissions for construction that are based on the project type, size, and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment list and schedule, were based on CalEEMod defaults for a project of this type and size that was reviewed and approved by the project applicant.

⁹ See CARB's EMFAC2021 Emissions Inventory at <https://arb.ca.gov/emfac/emissions-inventory>

The project construction equipment worksheet included the schedule for each phase of construction (included in *Attachment 2*). Within each construction phase, the quantity of equipment to be used along with the average use hours per day and total number of workdays was based on CalEEMod defaults and approved by the applicant. The construction schedule assumed that the earliest possible start date would be January 2023 and the project would be built out over a period of approximately 14 months or 307 construction workdays. The earliest year of operation was assumed to be 2024.

Construction Truck Traffic Emissions

Construction would produce traffic in the form of worker trips and truck traffic. The traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on the estimate of demolition material to be exported, soil material imported and/or exported to the site, and the estimate of concrete and asphalt truck trips. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. The total trips for those were computed by multiplying the daily trip rate by the number of days in that phase. Haul trips for demolition and grading were developed from the estimated and provided demolition and grading volumes, assuming each truck could carry 10 tons per load. The number of concrete and asphalt total round haul trips were estimated for the project and converted to total one-way trips, assuming two trips per delivery.

The latest version of the CalEEMod model is based on the older version of the CARB EMFAC2017 motor vehicle emission factor model. This model has been superseded by the EMFAC2021 model. However, CalEEMod has not been updated to include EMFAC2021. The construction traffic information was combined with EMFAC2021 motor vehicle emissions factors. EMFAC2021 provides aggregate emission rates in grams per mile for each vehicle type. The vehicle mix for this study was based on CalEEMod defaults, where worker trips are assumed to be comprised of light-duty autos (EMFAC category LDA) and light duty trucks (EMFAC category LDT1 and LDT2). Vendor trips are comprised of delivery and large trucks (EMFAC category MHDT and HHDT) and haul trips, including concrete trucks, are comprised of large trucks (EMFAC category HHDT). Travel distances are based on CalEEMod default lengths, which are 10.8 miles for worker travel, 7.3 miles for vendor trips and 20 miles for hauling (demolition material export and soil import/export). Since CalEEMod does not address concrete or asphalt trucks, these were treated as vendor travel distances. Each trip was assumed to include an idle time of 5 minutes. Emissions associated with vehicle starts were also included. On-road emission rates from the year 2023 for Santa Clara County was used. Table 3 provides the traffic inputs that were combined with EMFAC2021 emission rates to compute vehicle emissions.

Table 3. Construction Traffic Data Used for EMFAC2021 Model Runs

CalEEMod Run/Land Uses and Construction Phase	Trips by Trip Type			Notes
	Total Worker ¹	Total Vendor ¹	Total Haul ²	
Vehicle mix ¹	50% LDA 25% LDT1 25% LDT2	50% MHDT 50% HHDT	100% HHDT	
Trip Length (miles)	10.8	7.3	20.0 (Demo/Soil) 7.3 (Cement/Asphalt)	CalEEMod default distance with 5-min truck idle time.
Demolition	400	-	96	Estimated 2,000-sf existing building and 0.9-acres pavement demolition. Default worker trips.
Site Preparation	90	-	-	CalEEMod default worker trips.
Grading	120	-	62	500-cy soil import. CalEEMod default worker trips.
Trenching	40	-	-	CalEEMod default worker trips.
Building Construction	20,700	8,050	111	Estimated 55 concrete truck round trips. CalEEMod default worker and vendor trips.
Interior Construction	324	-	-	CalEEMod default worker trips.
Paving	360	-	87	0.9-acres asphalt paving. CalEEMod default worker trips.

Notes: ¹ Based on 2023 EMFAC2021 light-duty vehicle fleet mix for Santa Clara County.
² Includes demolition and grading trips estimated by CalEEMod based on amount of material to be removed. Concrete and asphalt trips estimated based on data provided by the applicant.

Summary of Computed Construction Emissions

Average daily emissions were annualized for each year of construction by dividing the annual construction emissions by the number of active workdays during that year. Table 4 shows the unmitigated annualized average daily construction emissions of ROG, NO_x, PM₁₀ exhaust, and PM_{2.5} exhaust during construction of the project. As indicated in Table 4, predicted unmitigated annualized project construction emissions would not exceed the BAAQMD significance thresholds during any year of construction.

Table 4. Construction Period Emissions - Unmitigated

Year	ROG	NO _x	PM ₁₀ Exhaust	PM _{2.5} Exhaust
<i>Construction Emissions Per Year (Tons)</i>				
2023-2024*	1.19	2.33	0.12	0.10
<i>Average Daily Construction Emissions Per Year (pounds/day)</i>				
2023-2024 (307 construction workdays)	7.74	15.20	0.75	0.66
<i>BAAQMD Thresholds (pounds per day)</i>	54 lbs./day	54 lbs./day	82 lbs./day	54 lbs./day
Exceed Threshold?	No	No	No	No

* Includes 2024 (only two months of construction)

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM₁₀ and PM_{2.5}. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an

additional source of airborne dust after it dries. The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less-than-significant if best management practices are implemented to reduce these emissions. San Jose General Policy MS-10.1 specifies that projects should assess projected air emissions from new development in conformance with the BAAQMD CEQA Guidelines, relative to state and federal standards and identify and implement feasible air emission reduction measures. Thus, San Jose General Policy MS-10.1 requires construction projects implement BAAQMD-Recommended Standard Measures to control PM₁₀ and PM_{2.5} emissions. *Mitigation Measure AQ-1 would implement BAAQMD's standard measures.*

Operational Period Emissions

Operational air emissions from the project would be generated primarily from autos driven by future employees and guests. Evaporative ROG emissions from architectural coatings and maintenance products (classified as consumer products) are also associated with these types of projects. CalEEMod was used to estimate emissions from operation of the proposed project assuming full build-out.

CalEEMod Inputs

Land Uses

The project land uses were input to CalEEMod as described above for the construction period modeling.

Model Year

Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CalEEMod. The earliest year of full operation would be 2024 if construction begins in 2023. Emissions associated with build-out later than 2024 would be lower.

Traffic Information

CalEEMod allows the user to enter specific vehicle trip generation rates. Therefore, the project-specific daily trip generation rate provided by the traffic consultant was entered into the model.¹⁰ The project would produce approximately 1,468 daily trips. When accounting for the *Location-Based Vehicle Mode Share Reduction* adjustments, the project would then produce 1,292 net daily trips. The daily trip generation was calculated using ITE trip generation rates, the size of the project, and the adjusted total automobile trips after reductions. The Saturday and Sunday trip rates were derived by multiplying the ratio of the CalEEMod default rates for Saturday and Sunday trips to the default weekday rate with the project-specific daily weekday trip rate. The default trip lengths and trip types specified by CalEEMod were used.

¹⁰ Hexagon Transportation Consultants, Inc., *1669 Monterey Road Hotel Local Transportation Analysis*, July 21, 2022.

EMFAC2021 Adjustment

The vehicle emission factors and fleet mix used in CalEEMod are based on EMFAC2017, which is an older CARB emission inventory for on-road mobile sources. Since the release of CalEEMod Version 2020.4.0, new emission factors have been produced by CARB. EMFAC2021 became available for use in January 2021. It includes the latest data on California's car and truck fleets and travel activity. The CalEEMod default vehicle emission factors and fleet mix were updated using the emission rates and fleet mix from EMFAC2021. On road emission rates from 2024 Santa Clara County were used (See *Attachment 3*). More details about the updates in emissions calculation methodologies and data are available in the EMFAC2021 Technical Support Document.¹¹

Energy

CalEEMod defaults for energy use were used, which include the 2019 Title 24 Building Standards. GHG emissions modeling includes those indirect emissions from electricity consumption. The electricity produced emission rate was modified in CalEEMod. An emission factor of 178 pounds of CO₂ per megawatt of electricity produced was entered into CalEEMod, which is based on San Jose Clean Energy's (SJCE) 2020 emissions rate.¹² It should be noted that per Climate Smart San Jose and San Jose's Greenhouse Gas Reduction Strategy, SJCE's goal is to provide 100-percent carbon-free electricity prior to 2030.¹³

The City of San José passed an ordinance in December 2020 that prohibits the use of natural gas infrastructure in new residential, office, and most retail-type buildings.¹⁴ This ordinance applies to any new construction starting August 1, 2021. Natural gas use for the hotel land use was set to zero and reassigned to electricity use in CalEEMod.

Other Inputs

Default model assumptions for emissions associated with solid waste generation and water use were applied to the project. Wastewater treatment was estimated to be 100% aerobic conditions to represent City wastewater treatment plant conditions. The project site would not send wastewater to on-site septic tanks or facultative lagoons.

Existing Uses

The site currently consists of an existing motel and associated parking lot. This use produces low operational and traffic emissions which would not considerably offset emissions from the proposed project. In addition, the traffic consultant did not provide a specific trip generation rate for the

¹¹ See CARB 2021: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/road-documentation/msei-modeling-tools-emfac>

¹² San Jose Clean Energy Website, Standard GreenSource service. Web: <https://sanjosecleanenergy.org/commercial-rates/>

¹³ City of San José, 2020. "2030 Greenhouse Gas Reduction Strategy", August. Web: <https://www.sanjoseca.gov/home/showpublisheddocument/63667/637347412207870000>

¹⁴ City of San José, 2020. "Expand Natural Gas Ban", December. Web: <https://www.sanjoseca.gov/Home/Components/News/News/2210/4699>

existing use of the site. Therefore, a CalEEMod run was not developed for the existing use of the site and emissions from the existing uses were not considered.

Summary of Computed Operational Emissions

Annual emissions were predicted using CalEEMod and daily emissions were estimating assuming 365 days of operation. Table 5 shows unmitigated net average daily operational emissions of ROG, NO_x, total PM₁₀, and total PM_{2.5} during operation of the project. The unmitigated operational period emissions would not exceed the BAAQMD significance thresholds.

Table 5. Operational Period Emissions

Scenario	ROG	NO _x	PM ₁₀	PM _{2.5}
2024 Annual Project Operational Emissions (<i>tons/year</i>)	1.52	0.48	0.80	0.20
<i>BAAQMD Thresholds (tons /year)</i>	<i>10 tons</i>	<i>10 tons</i>	<i>15 tons</i>	<i>10 tons</i>
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
2024 Daily Project Operational Emissions (<i>pounds/day</i>) ¹	8.31	2.63	4.39	1.12
<i>BAAQMD Thresholds (pounds/day)</i>	<i>54 lbs.</i>	<i>54 lbs.</i>	<i>82 lbs.</i>	<i>54 lbs.</i>
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
Notes: ¹ Assumes 365-day operation.				

Impact AIR-2: Expose sensitive receptors to substantial pollutant concentrations?

Project impacts related to increased community risk can occur either by introducing a new source of TACs with the potential to adversely affect existing sensitive receptors in the project vicinity or by significantly exacerbating existing cumulative TAC impacts. This project would introduce new sources of TACs during construction (i.e., on-site construction and truck hauling emissions) and operation (i.e., mobile and stationary sources).

Project construction activity would generate dust and equipment exhaust that would affect nearby sensitive receptors. The project would not include the installation of any stationary TAC emissions sources (i.e., generators) but would generate some traffic consisting of mostly light-duty gasoline-powered vehicles, which would produce TAC and air pollutant emissions.

Project impacts to existing sensitive receptors were addressed for temporary construction activities and long-term operational conditions. There are also several sources of existing TACs and localized air pollutants in the vicinity of the project. The impact of the existing sources of TAC was also assessed in terms of the cumulative risk that includes the project contribution.

Community Risk Methodology for Construction and Operation

Community risk impacts were addressed by predicting increased cancer risk, the increase in annual PM_{2.5} concentrations and computing the Hazard Index (HI) for non-cancer health risks. The risk impacts from the project are the combination of risks from construction and operation sources. These sources include on-site construction activity, construction truck hauling, and increased traffic from the project. To evaluate the increased cancer risks from the project, a 30-year exposure

period was used, per BAAQMD guidance,¹⁵ with the sensitive receptors being exposed to both project construction and operation emissions during this timeframe.

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contributions. Unlike the increased maximum cancer risk, the annual PM_{2.5} concentration and HI values are not additive but based on the annual maximum values for the entirety of the project. The project maximally exposed individual (MEI) is identified as the sensitive receptor that is most impacted by the project's construction and operation.

The methodology for computing community risks impacts is contained in *Attachment 1*. This involved the calculation of TAC and PM_{2.5} emissions, dispersion modeling of these emissions, and computations of cancer risk and non-cancer health effects.

Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations closest to the project would be present for extended periods of time (i.e., chronic exposures). This includes the existing residences to the west of the site, as shown in Figure 1. Residential receptors are assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to project emissions. While there are additional sensitive receptors within 1,000 feet of the project site, the receptors chosen are adequate to identify maximum impacts from the project.

Community Health Risk from Project Construction

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust, specifically DPM, which is a known TAC. These exhaust emissions (i.e., DPM) pose health risks for sensitive receptors such as surrounding residents. The primary community risk impact issues associated with construction emissions are cancer risk and exposure to PM_{2.5}. DPM poses both a potential health and nuisance impact to nearby receptors. A health risk assessment of the project construction activities was conducted that evaluated potential health effects to nearby sensitive receptors from construction emissions of DPM and PM_{2.5}.¹⁶ This assessment included dispersion modeling to predict the offsite concentrations resulting from project construction, so that lifetime cancer risks and non-cancer health effects could be evaluated.

Construction Emissions

The CalEEMod and EMFAC2021 models provided total annual PM₁₀ exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles, with total DPM emissions from all construction stages estimated to be 0.10 tons (208 pounds). The on-road emissions are a result of haul truck travel, worker travel, and vendor deliveries during construction. A trip length of half a mile was used to represent vehicle travel while at or near the construction site. It was assumed that these emissions from on-road vehicles

¹⁵ BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

¹⁶ DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.

traveling at or near the site would occur at the construction site. Fugitive PM_{2.5} dust emissions were calculated by CalEEMod and EMFAC2021 to be 0.04 tons (80 pounds) for the overall construction period.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict DPM and PM_{2.5} concentrations at sensitive receptors (i.e., residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.^{17,18} Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive PM_{2.5} dust emissions.

Construction Sources

To represent the construction equipment exhaust emissions, an area source emission release height of 20 feet (6 meters) was used for the area sources.¹⁹ The release height incorporates both the physical release height from the construction equipment (i.e., the height of the exhaust pipe) and plume rise after it leaves the exhaust pipe. Plume rise is due to both the high temperature of the exhaust and the high velocity of the exhaust gas. It should be noted that when modeling an area source, plume rise is not calculated by the AERMOD dispersion model as it would be for a point source (exhaust stack). Therefore, the release height from an area source used to represent emissions from sources with plume rise, such as construction equipment, should be based on the height the exhaust plume is expected to achieve, not just the height of the top of the exhaust pipe. Emissions from vehicle travel on- and off-site were distributed among the exhaust emission area sources throughout the site.

For modeling fugitive PM_{2.5} emissions, a near-ground level release height of 7 feet (2 meters) was used for the area source. Fugitive dust emissions at construction sites come from a variety of sources, including truck and equipment travel, grading activities, truck loading (with loaders) and unloading (rear or bottom dumping), loaders and excavators moving and transferring soil and other materials, etc. All of these activities result in fugitive dust emissions at various heights at the point(s) of generation. Once generated, the dust plume will tend to rise as it moves downwind across the site and exit the site at a higher elevation than when it was generated. For all these reasons, a 7-foot release height was used as the average release height across the construction site. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources. Figure 1 shows the project construction site and receptors.

¹⁷ BAAQMD, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0*. May. Web: <https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

¹⁸ BAAQMD, 2020, *BAAQMD Health Risk Assessment Modeling Protocol*. December. Web: [https://www.baaqmd.gov/~media/files/ab617-community-health/facility-risk-reduction/documents/baaqmd_hra_modeling_protocol.pdf?la=en](https://www.baaqmd.gov/~/media/files/ab617-community-health/facility-risk-reduction/documents/baaqmd_hra_modeling_protocol.pdf?la=en)

¹⁹ California Air Resource Board, 2007. *Proposed Regulation for In-Use Off-Road Diesel Vehicles, Appendix D: Health Risk Methodology*. April. Web: <https://ww3.arb.ca.gov/regact/2007/ordiesl07/ordiesl07.htm>

AERMOD Inputs and Meteorological Data

The modeling used a five-year meteorological data set (2013-2017) from the San José Airport prepared for use with the AERMOD model by the BAAQMD. Construction emissions were modeled as occurring daily between 8:00 a.m. to 5:00 p.m., when the majority of construction activity would occur. Annual DPM and PM_{2.5} concentrations from construction activities during the 2023-2024 period were calculated using the model. DPM and PM_{2.5} concentrations were calculated at nearby sensitive receptors. Receptor heights of 5 feet (1.5 meters) were used to represent the breathing height of nearby residents.²⁰

Summary of Construction Community Risk Impacts

The maximum increased cancer risks were calculated using the modeled TAC concentrations combined with the OEHHA guidance for age sensitivity factors and exposure parameters as recommended by BAAQMD, as described in *Attachment 1*. Non-cancer health hazards and maximum PM_{2.5} concentrations were also calculated and identified. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Third trimester, infant, child, and adult exposures were assumed to occur at all residences during the entire construction period.

The maximum modeled annual PM_{2.5} concentration was calculated based on combined exhaust and fugitive concentrations. The maximum computed HI values was based on the ratio of the maximum DPM concentration modeled and the chronic inhalation DPM reference exposure level of 5 µg/m³.

The maximum modeled annual DPM and PM_{2.5} concentrations were identified at nearby sensitive receptors to find the maximally exposed individuals (MEI). Results of this assessment indicated that the construction MEI was located on the first floor (5 feet above ground) of a single-family residence to the west of the project. The location of the MEI and nearby sensitive receptors are shown in Figure 1. Table 6 summarizes the maximum cancer risks, PM_{2.5} concentrations, and health hazard indexes for project related construction activities. *Attachment 4* to this report includes the emission calculations used for the construction modeling and the cancer risk calculations.

Community Risks from Project Operation

Stationary equipment that could emit substantial TACs (e.g., emergency generators) are not planned for this project. Diesel powered vehicles are the primary concern with local traffic-generated TAC impacts. Per BAAQMD recommended risks and methodology, a road with less than 10,000 total vehicle per day is considered a low-impact source of TACs.²¹ This project would

²⁰ Bay Area Air Quality Management District, 2012, Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0. May. Web: <https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

²¹ BAAQMD, 2012, Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0. May. Web: <https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

generate 1,468 daily trips or 1,292 net daily trips when taking into account the trip reductions.²² The project traffic would be dispersed on the roadway system with a majority of the trips being from light-duty vehicles (i.e., passenger automobiles), which is a fraction of 10,000 daily vehicles. In addition, projects with the potential to cause or contribute to increased cancer risk from traffic include those that have attract high numbers of diesel-powered on road trucks or use off-road diesel equipment on site, such as a warehouse distribution center, a quarry, or a manufacturing facility, may potentially expose existing or future planned receptors to substantial cancer risk levels and/or health hazards. This is not a project of concern for non-BAAQMD permitted mobile sources. Therefore, emissions from project traffic are considered negligible and not included within this analysis.

Summary of Project-Related Community Risks at the Off-Site Project MEI

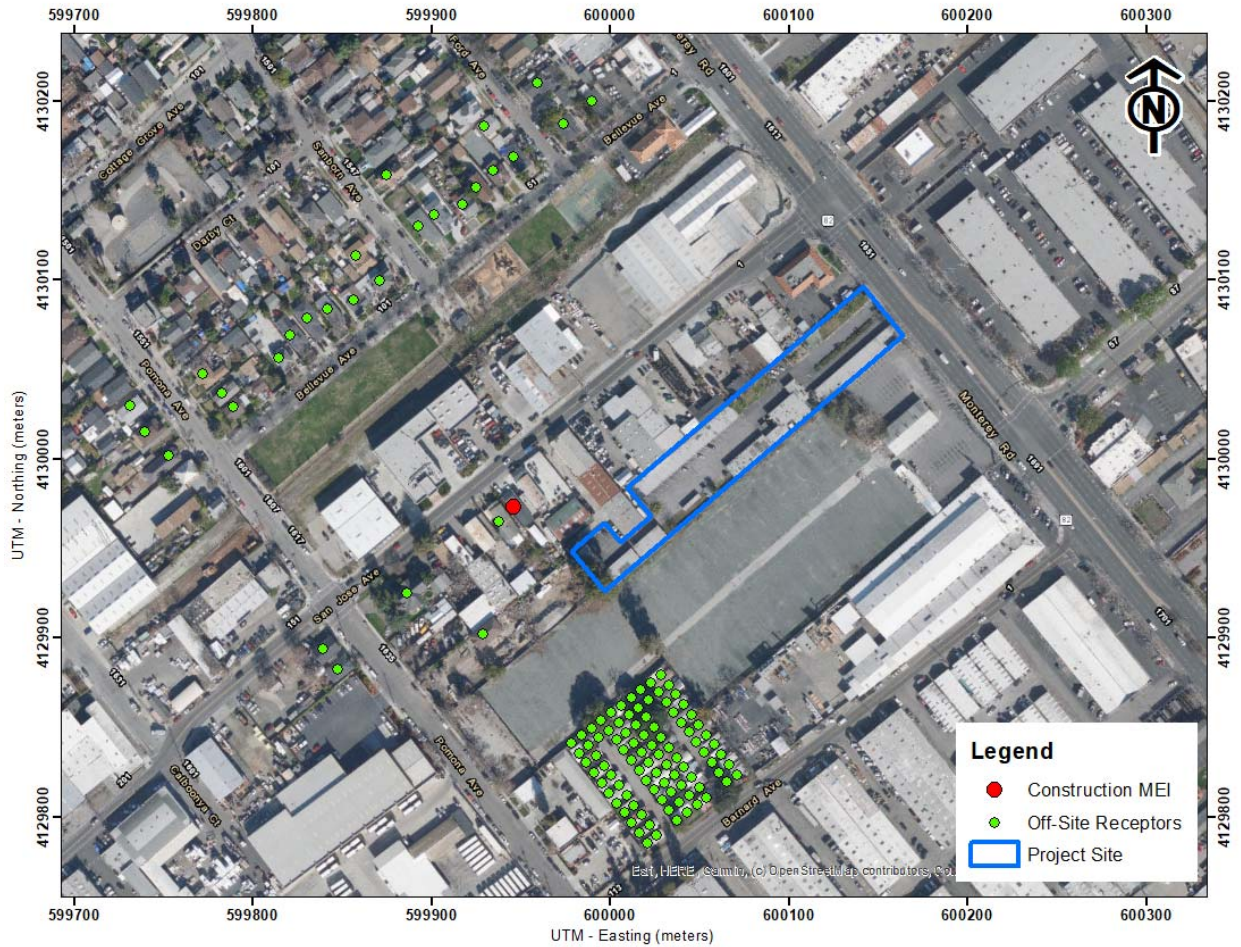
For this project, the sensitive receptor identified in Figure 1 as the construction MEI is also the project MEI. At this location, the MEI would be exposed to emissions from 14 months of construction. The annual PM_{2.5} concentration and HI values are based on an annual maximum risk for the entirety of the project. As shown in Table 6, the unmitigated maximum cancer risks, annual PM_{2.5} concentration, and HI from construction activities at the MEI location would not exceed the respective BAAQMD single-source significance thresholds.

Table 6. Construction Risk Impacts at the Off-Site Receptors

Source		Cancer Risk (per million)	Annual PM _{2.5} (µg/m ³)	Hazard Index
Project Construction	Unmitigated	7.00 (infant)	0.06	0.01
<i>BAAQMD Single-Source Threshold</i>		<i>10</i>	<i>0.3</i>	<i>1.0</i>
<i>Exceed Threshold?</i>	Unmitigated	<i>No</i>	<i>No</i>	<i>No</i>

²² Hexagon Transportation Consultants, Inc., 123 Sherman Avenue Office Development Transportation Analysis, May 12, 2022.

Figure 1. Locations of Project Construction Site, Off-Site Sensitive Receptors, and Maximum TAC Impact Location (MEI)

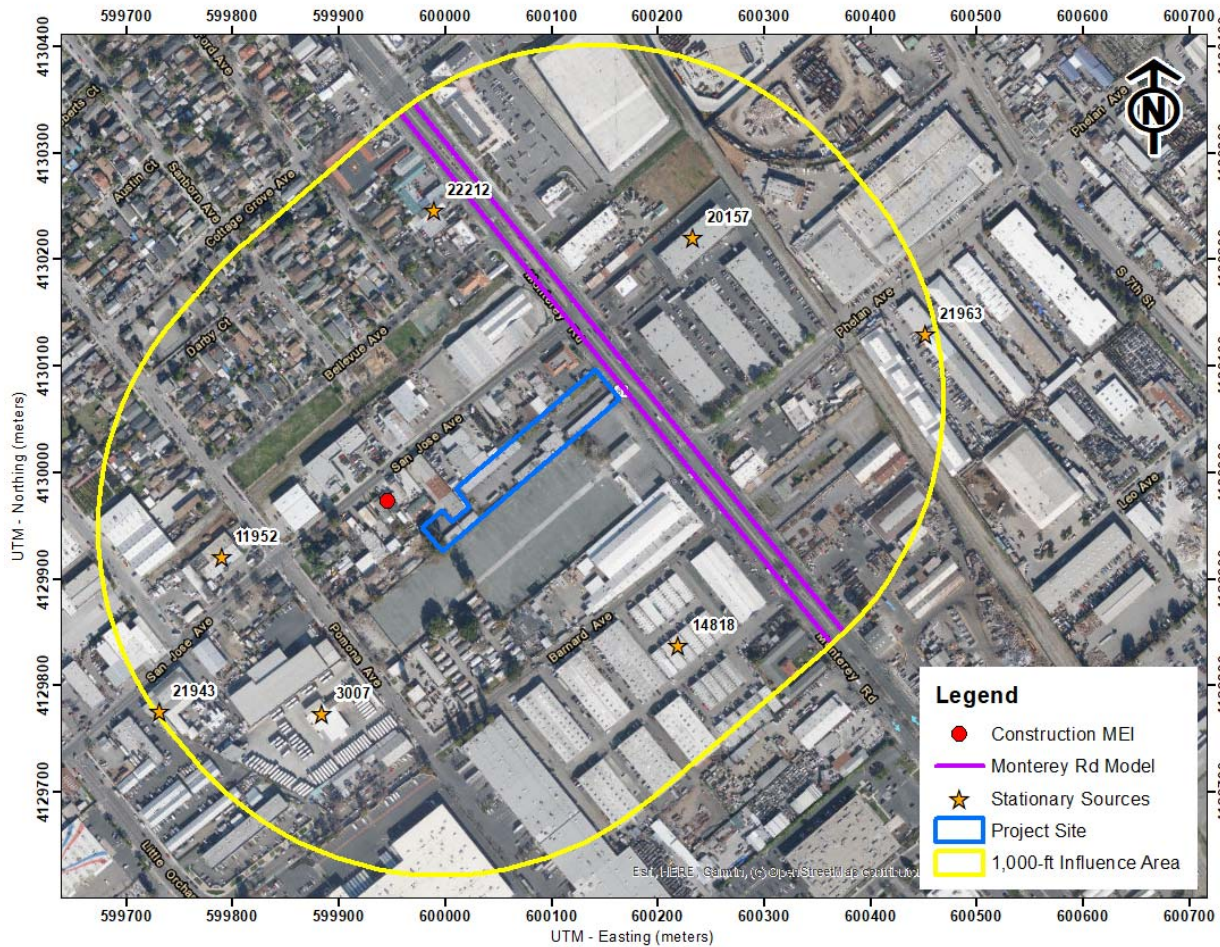


Cumulative Community Risks of all TAC Sources at the Off-Site Project MEI

Community health risk assessments typically look at all substantial sources of TACs that can affect sensitive receptors that are located within 1,000 feet of the project site (i.e., influence area). These sources include freeways or highways, busy surface streets, and stationary sources identified by BAAQMD.

A review of the project area based on provided traffic information indicated that Monterey Road would have average daily traffic (ADT) exceeding 10,000 vehicles. Other nearby streets would have less than 10,000 vehicles per day. A review of BAAQMD’s stationary source map website identified seven stationary sources with the potential to affect the project MEI. Figure 2 shows the location of the sources affecting the MEI. Community risk impacts from these sources upon the MEI are reported in Table 7. Details of the modeling and community risk calculations are included in *Attachment 5*.

Figure 2. Project Site and Nearby TAC and PM_{2.5} Sources



Local Roadways – Monterey Road

A refined analysis of potential health impacts from vehicle traffic on Monterey Road was conducted. The refined analysis involved predicting emissions for the traffic volume and mix of vehicle types on the roadway near the project site and using an atmospheric dispersion model to predict exposure to TACs. The associated cancer risks are then computed based on the modeled exposures. *Attachment 1* includes a description of how community risk impacts, including cancer risk are computed.

Traffic Emissions Modeling

This analysis involved the development of DPM, organic TACs, and PM_{2.5} emissions for traffic on Monterey Road using the Caltrans version of the EMFAC2017 emissions model, known as CT-EMFAC2017. CT-EMFAC2017 provides emission factors for mobile source criteria pollutants and TACs, including DPM. Emission processes modeled include running exhaust for DPM, PM_{2.5} and total organic compounds (e.g., TOG), running evaporative losses for TOG, and tire and brake wear and fugitive road dust for PM_{2.5}. All PM_{2.5} emissions from all vehicles were used, rather than just the PM_{2.5} fraction from diesel powered vehicles, because all vehicle types (i.e., gasoline and

diesel powered) produce PM_{2.5}. Additionally, PM_{2.5} emissions from vehicle tire and brake wear and from re-entrained roadway dust were included. DPM emissions are projected to decrease in the future and are reflected in the CT-EMFAC2017 emissions data. Inputs to the model include region (i.e., Santa Clara County), type of road (i.e., major/collector), truck percentage for non-state highways in Santa Clara County (3.51 percent),²³ traffic mix assigned by CT-EMFAC2017 for the county, year of analysis (2023 – construction start year), and season (annual).

In order to estimate TAC and PM_{2.5} emissions over the 30-year exposure period used for calculating the increased cancer risks for sensitive receptors at the project MEI, the CT-EMFAC2017 model was used to develop vehicle emission factors for the year 2023 (project construction year). Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CT-EMFAC2017. Year 2023 emissions were conservatively assumed as being representative of future conditions over the time period that cancer risks are evaluated since, as discussed above, overall vehicle emissions, and in particular diesel truck emissions, will decrease in the future.

The ADT on Monterey Road was based on AM and PM peak-hour background plus project traffic volumes for the nearby roadway provided by the project's traffic consultant.²⁴ The calculated ADT on Monterey Road was 30,775 vehicles. Average hourly traffic distributions for Santa Clara County roadways were developed using the EMFAC model,²⁵ which were then applied to the ADT volumes to obtain estimated hourly traffic volumes and emissions for the roadway. For all hours of the day, the average speed of 30 mph on the roadway was assumed for all vehicles, 5 mph below the posted speed limit on Monterey Road to account for commute congestion and the amount of access in the area.

Dispersion Modeling

Dispersion modeling of TAC and PM_{2.5} emissions was conducted using the EPA AERMOD air quality dispersion model, which is recommended by the BAAQMD for this type of analysis.²⁶ TAC and PM_{2.5} emissions from traffic on Monterey Road within about 1,000 feet of the project site was evaluated. Vehicle traffic emissions were modeled in AERMOD using a series of volume sources along a line (line volume sources), with line segments used to represent the opposing travel lanes on the roadway. The same meteorological data used in the construction dispersion modeling were used in the roadway modeling. Other inputs to the model included road geometry, hourly traffic emissions, and receptor locations and heights. Annual TAC and PM_{2.5} concentrations at the project MEI for 2023 from traffic on the roadway were calculated using receptor heights of 5 feet (1.5 meters) to represent the breathing heights on the first floor of the nearby residences.

²³ BAAQMD, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0*. May. Web: <https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

²⁴ Hexagon Transportation Consultants, Inc., *123 Sherman Avenue Office Development Transportation Analysis*, May 12, 2022.

²⁵ The Burden output from EMFAC2007, a previous version of CARB's EMFAC model, was used for this since the current web-based version of EMFAC2014 does not include Burden type output with hour-by-hour traffic volume information.

²⁶ BAAQMD. *Recommended Methods for Screening and Modeling Local Risks and Hazards*. May 2012

Computed Cancer and Non-Cancer Health Impacts

The cancer risk, PM_{2.5} concentration, and HI impacts from Monterey Road on the project MEI are shown in Table 7. Figure 2 shows the roadway links used for the modeling. Details of the emission calculations, dispersion modeling, and cancer risk calculations for the receptors with the maximum cancer risk from the roadway's traffic are provided in *Attachment 5*.

BAAQMD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2018 and 2020* geographic information system (GIS) map website.^{27,28} This mapping tool identifies the location of nearby stationary sources and their estimated risk and hazard impacts, including emissions and adjustments to account for new OEHHA guidance. Seven sources were identified using this tool, with all being generic sources: auto body coating, solvent cleaning, and spray booth operations. A Stationary Source Information Form (SSIF) containing the identified sources was prepared and submitted to BAAQMD. BAAQMD provided input and clarification about the stationary sources.²⁹

The screening risk and hazard levels provided by BAAQMD for the stationary sources were adjusted for distance using BAAQMD's *Distance Adjustment Multiplier Tool for Generic Sources*. Community risk impacts from the stationary sources upon the MEIs are reported in Table 7.

Summary of Cumulative Risks at the Project MEI

Table 7 reports both the project and cumulative community risk impacts at the sensitive receptors most affected by project construction (i.e., the MEI). The project activities would not create a significant health risk, since the maximum unmitigated cancer risk, PM_{2.5} concentration, and HI do not exceed the BAAQMD single-source thresholds. In addition, the unmitigated cancer risk, PM_{2.5} concentration, and HI do not exceed their cumulative-source thresholds.

²⁷ BAAQMD, Web:

<https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65>

²⁸ BAAQMD, Web:

<https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3>

²⁹ Email correspondence with Matthew Hanson, Environmental Planner II, BAAQMD, March 14, 2022.

Table 7. Cumulative Community Risk Impacts at the Project MEIs

Source		Cancer Risk (per million)	Annual PM _{2.5} (µg/m ³)	Hazard Index
Project Impacts				
Project Construction	Unmitigated	7.00 (infant)	0.06	0.01
BAAQMD Single-Source Threshold		10	0.3	1.0
<i>Exceed Threshold?</i>	Unmitigated	<i>No</i>	<i>No</i>	<i>No</i>
Cumulative Impacts				
Monterey Road, ADT 30,775		0.27	0.02	<0.01
R C Refinishing (Facility ID #3007, Spray Booth), MEI at 535 feet		<0.01	<0.01	<0.01
Tan Auto Repair (Facility ID #11952, Auto Body Coating), MEI at 460 feet		-	-	<0.01
Freeman Finishing (Facility ID #14818, Spray Booth), MEI at 920 feet		-	-	<0.01
Valley Lapping, Inc (Facility ID #20157, Solvent Cleaning), MEI at +1,000 feet		-	-	<0.01
R&P Painting Company (Facility ID #21943, Spray Booth), MEI at 940 feet		-	-	-
Hoas Auto Touch-Up Autobody (Facility ID #21963, Auto Body Coating), MEI at +1,000 feet		-	-	<0.01
Y2K Auto Body Repair (Facility ID #22212, Spray Booth), MEI at 790 feet		-	-	-
<i>Combined Sources</i>	Unmitigated	<7.28	<0.09	<0.07
BAAQMD Cumulative Source Threshold		100	0.8	10.0
<i>Exceed Threshold?</i>	Unmitigated	<i>No</i>	<i>No</i>	<i>No</i>

Supporting Documentation

Attachment 1 is the methodology used to compute community risk impacts, including the methods to compute lifetime cancer risk from exposure to project emissions.

Attachment 2 includes the CalEEMod output for project construction and operational criteria air pollutant emissions. Also included are any modeling assumptions.

Attachment 3 includes the EMFAC2021 emissions modeling.

Attachment 4 is the construction health risk assessment. AERMOD dispersion modeling files for these assessments, which are quite voluminous, are available upon request and would be provided in digital format.

Attachment 5 includes the cumulative community risk calculations, modeling results, and health risk calculations from sources affecting the MEI.

Attachment 1: Health Risk Calculation Methodology

A health risk assessment (HRA) for exposure to Toxic Air Contaminates (TACs) requires the application of a risk characterization model to the results from the air dispersion model to estimate potential health risk at each sensitive receptor location. The State of California Office of Environmental Health Hazard Assessment (OEHHA) and California Air Resources Board (CARB) develop recommended methods for conducting health risk assessments. The most recent OEHHA risk assessment guidelines were published in February of 2015.³⁰ These guidelines incorporate substantial changes designed to provide for enhanced protection of children, as required by State law, compared to previous published risk assessment guidelines. CARB has provided additional guidance on implementing OEHHA's recommended methods.³¹ This HRA used the 2015 OEHHA risk assessment guidelines and CARB guidance. The BAAQMD has adopted recommended procedures for applying the newest OEHHA guidelines as part of Regulation 2, Rule 5: New Source Review of Toxic Air Contaminants.³² Exposure parameters from the OEHHA guidelines and the recent BAAQMD HRA Guidelines were used in this evaluation.

Cancer Risk

Potential increased cancer risk from inhalation of TACs is calculated based on the TAC concentration over the period of exposure, inhalation dose, the TAC cancer potency factor, and an age sensitivity factor to reflect the greater sensitivity of infants and children to cancer causing TACs. The inhalation dose depends on a person's breathing rate, exposure time and frequency and duration of exposure. These parameters vary depending on the age, or age range, of the persons being exposed and whether the exposure is considered to occur at a residential location or other sensitive receptor location.

The current OEHHA guidance recommends that cancer risk be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, they recommend evaluating risks for the third trimester of pregnancy to age zero, ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 70 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposures, an ASF of 3 for a child exposure, and an ASF of 1 for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilogram of body weight per day (L/kg-day) or liters per kilogram of body weight per 8-hour period for the case of worker or school child exposures. As recommended by the BAAQMD for residential exposures, 95th percentile breathing rates are used for the third trimester and infant exposures, and 80th percentile breathing rates for child and adult exposures. For children at schools and daycare facilities, BAAQMD recommends using the 95th percentile 8-hour breathing rates. Additionally, CARB and the BAAQMD recommend the use of a residential exposure duration of

³⁰ OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

³¹ CARB, 2015. *Risk Management Guidance for Stationary Sources of Air Toxics*. July 23.

³² BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

30 years for sources with long-term emissions (e.g., roadways). For workers, assumed to be adults, a 25-year exposure period is recommended by the BAAQMD. For school children a 9-year exposure period is recommended by the BAAQMD.

Under previous OEHHA and BAAQMD HRA guidance, residential receptors are assumed to be at their home 24 hours a day, or 100 percent of the time. In the 2015 Risk Assessment Guidance, OEHHA includes adjustments to exposure duration to account for the fraction of time at home (FAH), which can be less than 100 percent of the time, based on updated population and activity statistics. The FAH factors are age-specific and are: 0.85 for third trimester of pregnancy to less than 2 years old, 0.72 for ages 2 to less than 16 years, and 0.73 for ages 16 to 70 years. Use of the FAH factors is allowed by the BAAQMD if there are no schools in the project vicinity have a cancer risk of one in a million or greater assuming 100 percent exposure (FAH = 1.0).

Functionally, cancer risk is calculated using the following parameters and formulas:

$$\text{Cancer Risk (per million)} = CPF \times \text{Inhalation Dose} \times ASF \times ED/AT \times FAH \times 10^6$$

Where:

- CPF = Cancer potency factor (mg/kg-day)⁻¹
- ASF = Age sensitivity factor for specified age group
- ED = Exposure duration (years)
- AT = Averaging time for lifetime cancer risk (years)
- FAH = Fraction of time spent at home (unitless)

$$\text{Inhalation Dose} = C_{air} \times DBR^* \times A \times (EF/365) \times 10^{-6}$$

Where:

- C_{air} = concentration in air (µg/m³)
- DBR = daily breathing rate (L/kg body weight-day)
- 8HrBR = 8-hour breathing rate (L/kg body weight-8 hours)
- A = Inhalation absorption factor
- EF = Exposure frequency (days/year)
- 10⁻⁶ = Conversion factor

* An 8-hour breathing rate (8HrBR) is used for worker and school child exposures.

The health risk parameters used in this evaluation are summarized as follows:

Parameter	Exposure Type →	Infant		Child	Adult
	Age Range →	3 rd Trimester	0<2	2 < 16	16 - 30
DPM Cancer Potency Factor (mg/kg-day) ⁻¹		1.10E+00	1.10E+00	1.10E+00	1.10E+00
Daily Breathing Rate (L/kg-day) 80 th Percentile Rate		273	758	572	261
Daily Breathing Rate (L/kg-day) 95 th Percentile Rate		361	1,090	745	335
8-hour Breathing Rate (L/kg-8 hours) 95 th Percentile Rate		-	1,200	520	240
Inhalation Absorption Factor		1	1	1	1
Averaging Time (years)		70	70	70	70
Exposure Duration (years)		0.25	2	14	14*
Exposure Frequency (days/year)		350	350	350	350*
Age Sensitivity Factor		10	10	3	1
Fraction of Time at Home (FAH)		0.85-1.0	0.85-1.0	0.72-1.0	0.73*

Non-Cancer Hazards

Non-cancer health risk is usually determined by comparing the predicted level of exposure to a chemical to the level of exposure that is not expected to cause any adverse effects (reference exposure level), even to the most susceptible people. Potential non-cancer health hazards from TAC exposure are expressed in terms of a hazard index (HI), which is the ratio of the TAC concentration to a reference exposure level (REL). OEHHA has defined acceptable concentration levels for contaminants that pose non-cancer health hazards. TAC concentrations below the REL are not expected to cause adverse health impacts, even for sensitive individuals. The total HI is calculated as the sum of the HIs for each TAC evaluated and the total HI is compared to the BAAQMD significance thresholds to determine whether a significant non-cancer health impact from a project would occur.

Typically, for residential projects located near roadways with substantial TAC emissions, the primary TAC of concern with non-cancer health effects is diesel particulate matter (DPM). For DPM, the chronic inhalation REL is 5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Annual PM_{2.5} Concentrations

While not a TAC, fine particulate matter (PM_{2.5}) has been identified by the BAAQMD as a pollutant with potential non-cancer health effects that should be included when evaluating potential community health impacts under the California Environmental Quality Act (CEQA). The thresholds of significance for PM_{2.5} (project level and cumulative) are in terms of an increase in the annual average concentration. When considering PM_{2.5} impacts, the contribution from all sources of PM_{2.5} emissions should be included. For projects with potential impacts from nearby local roadways, the PM_{2.5} impacts should include those from vehicle exhaust emissions, PM_{2.5} generated from vehicle tire and brake wear, and fugitive emissions from re-suspended dust on the roads.

Attachment 2: CalEEMod Modeling Inputs and Outputs

Air Quality/Noise Construction Information Data Request

Project Name: Fairfield Inn	Complete ALL Portions in Yellow																														
See Equipment Type TAB for type, horsepower and load factor																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Project Size</td> <td style="width: 40%;">120 Rooms</td> <td style="width: 40%; text-align: right;">1.76 total project acres disturbed</td> </tr> <tr> <td></td> <td>0 s.f. residential</td> <td></td> </tr> <tr> <td></td> <td>0 s.f. retail</td> <td></td> </tr> <tr> <td></td> <td>0 s.f. office/commercial</td> <td></td> </tr> <tr> <td></td> <td>0 s.f. other, specify:</td> <td></td> </tr> <tr> <td></td> <td>0 s.f. parking garage</td> <td style="text-align: right;">0 spaces</td> </tr> <tr> <td style="background-color: yellow;">Use asphalt area from below</td> <td>0 s.f. parking lot</td> <td style="text-align: right;">100 spaces</td> </tr> <tr> <td>Construction Hours</td> <td>am to</td> <td>pm</td> </tr> </table>	Project Size	120 Rooms	1.76 total project acres disturbed		0 s.f. residential			0 s.f. retail			0 s.f. office/commercial			0 s.f. other, specify:			0 s.f. parking garage	0 spaces	Use asphalt area from below	0 s.f. parking lot	100 spaces	Construction Hours	am to	pm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: yellow;">Pile Driving? Y/N? NO</td> </tr> <tr> <td style="background-color: yellow;">Project include on-site GENERATOR OR FIRE PUMP during project OPERATION? Y/N? NO</td> </tr> <tr> <td>IF YES (if BOTH separate values) --></td> </tr> <tr> <td>Kilowatts/Horsepower: _____</td> </tr> <tr> <td>Fuel Type: _____</td> </tr> <tr> <td>Location in project (Plans Desired if Available):</td> </tr> </table>	Pile Driving? Y/N? NO	Project include on-site GENERATOR OR FIRE PUMP during project OPERATION? Y/N? NO	IF YES (if BOTH separate values) -->	Kilowatts/Horsepower: _____	Fuel Type: _____	Location in project (Plans Desired if Available):
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IF YES (if BOTH separate values) -->																															
Kilowatts/Horsepower: _____																															
Fuel Type: _____																															
Location in project (Plans Desired if Available):																															

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
	Demolition	Start Date:	1/2/2023	Total phase:	20			Overall Import/Export Volumes
		End Date:	1/27/2023					
1	Concrete/Industrial Saws	81	0.73	8	20	8	9461	Demolition Volume
3	Excavators w/ breaker	158	0.38	8	20	8	28819	Square footage of buildings to be demolished
2	Rubber-Tired Dozers	247	0.4	8	20	8	31616	(or total tons to be hauled)
2	Tractors/Loaders/Backhoes	97	0.37			0	0	7 square feet or
	Trucks for off-haul							7 Hauling volume (tons)
								Any pavement demolished and hauled? 7 tons 0.90 Acres of asphalt area; thickness unknown. Assume 3" to 4" & Calculate tonnage of off-haul
	Site Preparation	Start Date:	1/28/2023	Total phase:	5			
		End Date:	2/3/2023					
	Graders	187	0.41			0	0	
3	Rubber Tired Dozers	247	0.4	8	5	8	11856	
4	Tractors/Loaders/Backhoes	97	0.37	8	5	8	5742	
	Other Equipment?							
	Grading / Excavation	Start Date:	2/4/2023	Total phase:	8			Soil Hauling Volume
		End Date:	2/15/2023					Export volume = 2 cubic yards?
1	Excavators	158	0.38	8	8	8	3843	Import volume = 500 cubic yards?
1	Graders	187	0.41	8	8	8	4907	
1	Rubber Tired Dozers	247	0.4	8	8	8	6323	
	Concrete/Industrial Saws	81	0.73			0	0	Overall Raw Fill = 1,500 CY
3	Tractors/Loaders/Backhoes	97	0.37	8	8	8	6891	Overall Raw Cut = 690 Cy + 160CY BIO + 170 cy POOL= 1,020 CY
	Other Equipment?							
	Trenching/Foundation	Start Date:	2/16/2023	Total phase:	8			
		End Date:	2/27/2023					
1	Tractor/Loader/Backhoe	97	0.37	8	8	8	2297	
1	Excavators	158	0.38	8	8	8	3843	
	Other Equipment?							
	Building - Exterior	Start Date:	2/28/2023	Total phase:	230			Cement Trucks? ? Total Round-Trips do NOT KNOW THE ANSWER
		End Date:	1/15/2024					
1	Cranes	231	0.29	7	230	7	107854	Electric? (Y/N) Otherwise assumed diesel
3	Forklifts	89	0.2	8	230	8	98256	Liquid Propane (LPG)? (Y/N) Otherwise Assumed diesel
1	Generator Sets	84	0.74	8	230	8	114374	Or temporary line power? (Y/N) YES
3	Tractors/Loaders/Backhoes	97	0.37	7	230	7	173349	
1	Welders	46	0.45	8	230	8	38088	
	Other Equipment?							
	Building - Interior/Architectural Coating	Start Date:	1/16/2024	Total phase:	18			
		End Date:	2/8/2024					
1	Air Compressors	78	0.48	6	18	6	4044	
	Aerial Lift	62	0.31			0	0	
	Generator sets							
	Paving	Start Date:	2/9/2024	Total phase:	18			
		Start Date:	3/5/2024					
2	Concrete delivery trucks w/ pumps	9	0.56	6	18	6	1089	Asphalt? ___ cubic yards or ___ round trips? New asphalt area = 0.88 Acres approx. Assume 4"-5" of pavement section & calculate tonnage
1	Pavers	130	0.42	8	18	8	7862	
2	Paving Equipment	132	0.36	6	18	6	10264	
2	Rollers	80	0.38	6	18	6	6566	
1	Tractors/Loaders/Backhoes	97	0.37	8	18	8	5168	
	Other Equipment?							
	Additional Phases	Start Date:		Total phase:				
		Start Date:						
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs
It is assumed that water trucks would be used during grading
Add or subtract phases and equipment, as appropriate
Modify horsepower or load factor, as appropriate

Complete one sheet for each project component

		Traffic Consultant Trip Gen				CalEEMod Default		
Land Use	Size	Daily Trips	New Trips	Weekday Trip Gen	Weekday	Sat	Sun	
Hotel	Room	120	1468	1292	10.77	8.36	8.19	5.95
<i>Location Based Reduction</i>			-176			<i>Rev</i>	10.55	7.66

**Table 3
Project Trip Generation Estimates**

Land Use	Size	Daily		AM Peak Hour			PM Peak Hour				
		Trip Rate	Trips	Trip Rate	In	Out	Total	Trip Rate	In	Out	Total
Hotel ¹	120 rooms	12.23	1,468	0.62	41	33	74	0.73	43	45	88
<i>Location-Based Vehicle Mode Share (12%) ²</i>			(176)		(5)	(4)	(9)		(5)	(6)	(11)
Net New project Trips:			1,292		36	29	65		38	39	77

Sources: ITE Trip Generation Manual, 11th Edition, 2021 and City of San Jose's Transportation Analysis Handbook, April 2020.

Notes:

1. Average trip rates (per occupied rooms) for Hotel (Land Use 310) were used.
2. Since a hotel exhibits similar mode share characteristics to that of a retail use, a 12% mode share trip reduction was applied based on the location-based vehicle mode share % outputs (Table 6 of TA Handbook) for retail development in a Suburban with Multifamily Housing area.

Construction Criteria Air Pollutants						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2023-2024	1.15	2.15	0.10	0.10	350.76	
EMFAC						
2023-2024	0.04	0.18	0.01	0.01	173.80	
Total Construction Emissions by Year						
2023-2024	1.19	2.33	0.12	0.10	524.56	
Total Construction Emissions						
Tons	1.19	2.33	0.12	0.10	524.56	
Average Daily Emissions						
Pounds/Workdays					Workdays	
2023-2024	7.74	15.20	0.75	0.66		307
Threshold - lbs/day	54.0	54.0	82.0	54.0		
Total Construction Emissions						
Pounds	7.74	15.20	0.75	0.66	0.00	
Average	7.74	15.20	0.75	0.66	0.00	307.00
Threshold - lbs/day	54.0	54.0	82.0	54.0		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		
Year	Tons					
Total	1.52	0.48	0.80	0.20		
Existing Use Emissions						
Total						
Net Annual Operational Emissions						
Tons/year	1.52	0.48	0.80	0.20		
Threshold - Tons/year	10.0	10.0	15.0	10.0		
Average Daily Emissions						
Pounds Per Day	8.31	2.63	4.39	1.12		
Threshold - lbs/day	54.0	54.0	82.0	54.0		

Category	CO2e			
	Project	Existing	Project 2030	Existing
Area	0.00			
Energy	289.04			
Mobile	821.46			
Waste	33.04			
Water	3.31			
TOTAL	1146.84	0.00	0.00	0.00
Net GHG Emissions		1146.84		0.00
Service Population	0.00			
Per Capita Emissions		#DIV/0!		#DIV/0!
CA DOF 2020 =	0 units 0 pph			

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Fairfield Inn, 1669 Monterey Rd, San Jose
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	100.00	Space	0.90	40,000.00	0
Hotel	120.00	Room	4.00	174,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2024
Utility Company	San Jose Clean Energy				
CO2 Intensity (lb/MW hr)	177.69	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - SJCE CO2 Intensity Factor 2020 = 177.69
- Land Use - Provided land uses, default acreage and SF
- Construction Phase - Default construction schedule - confirmed by applicant
- Off-road Equipment - Default const equip & hours - confirmed/updated by applicant
- Off-road Equipment -
- Off-road Equipment - Default const equip & hours - confirmed/updated by applicant
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Default const equip & hours - confirmed/updated by applicant
- Grading - grading = 500-cy import

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Demolition - Estimated ~2,000-sf existing building demo

Trips and VMT - EMFAC2021 adjustment 0 trips, pavement demo = 0.9-acres, estimated concrete trucks, 0.9-acres asphalt paving

Vehicle Trips - Provided trip gen w/ reduction adjustments

Vehicle Emission Factors - EMFAC2021 vehicle emission factors Santa Clara Co 2024

Fleet Mix - EMFAC2021 fleet mix Santa Clara Co 2024

Energy Use - SJ Reach Code - no natural gas, convert to electricity

Water And Wastewater - Wastewater treatment 100% aerobic, no septic tanks of lagoons

Construction Off-road Equipment Mitigation - BMPs, Tier 4 interim mitigation

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblEnergyUse	NT24E	3.22	4.61
tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	T24E	1.83	13.31
tblEnergyUse	T24NG	39.16	0.00
tblFleetMix	HHD	6.4040e-003	7.3070e-003
tblFleetMix	HHD	6.4040e-003	7.3070e-003
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.1020e-003	5.6410e-003
tblFleetMix	LHD2	5.1020e-003	5.6410e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.13

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tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	2.7760e-003	2.6660e-003
tblFleetMix	MH	2.7760e-003	2.6660e-003
tblFleetMix	MHD	7.9340e-003	9.3580e-003
tblFleetMix	MHD	7.9340e-003	9.3580e-003
tblFleetMix	OBUS	9.0000e-004	1.0550e-003
tblFleetMix	OBUS	9.0000e-004	1.0550e-003
tblFleetMix	SBUS	9.1400e-004	6.8200e-004
tblFleetMix	SBUS	9.1400e-004	6.8200e-004
tblFleetMix	UBUS	3.8000e-004	4.1700e-004
tblFleetMix	UBUS	3.8000e-004	4.1700e-004
tblGrading	MaterialImported	0.00	500.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblProjectCharacteristics	CO2IntensityFactor	807.98	177.69
tblTripsAndVMT	HaulingTripNumber	9.00	0.00
tblTripsAndVMT	HaulingTripNumber	63.00	0.00
tblTripsAndVMT	VendorTripNumber	35.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblTripsAndVMT	WorkerTripNumber	90.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblVehicleEF	HHD	0.02	0.23
tblVehicleEF	HHD	0.05	0.12
tblVehicleEF	HHD	6.33	5.20
tblVehicleEF	HHD	0.40	0.77

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tblVehicleEF	HHD	5.9420e-003	6.2600e-004
tblVehicleEF	HHD	1,048.88	832.32
tblVehicleEF	HHD	1,413.90	1,617.13
tblVehicleEF	HHD	0.05	0.02
tblVehicleEF	HHD	0.17	0.13
tblVehicleEF	HHD	0.22	0.26
tblVehicleEF	HHD	7.0000e-006	1.9000e-005
tblVehicleEF	HHD	5.39	4.08
tblVehicleEF	HHD	2.69	1.85
tblVehicleEF	HHD	2.32	2.73
tblVehicleEF	HHD	2.5820e-003	2.1820e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.4710e-003	2.0820e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8830e-003	8.7810e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	2.0000e-006	1.9600e-004
tblVehicleEF	HHD	9.3000e-005	5.8000e-005
tblVehicleEF	HHD	0.43	0.33
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	4.1000e-005	5.2500e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.7610e-003	7.2800e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	1.9600e-004
tblVehicleEF	HHD	9.3000e-005	5.8000e-005

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tblVehicleEF	HHD	0.49	0.59
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.08	0.14
tblVehicleEF	HHD	4.1000e-005	5.2500e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	LDA	1.7200e-003	2.0530e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.52	0.65
tblVehicleEF	LDA	2.08	2.89
tblVehicleEF	LDA	234.59	245.08
tblVehicleEF	LDA	49.79	63.51
tblVehicleEF	LDA	3.9560e-003	4.1620e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.23
tblVehicleEF	LDA	0.04	7.1680e-003
tblVehicleEF	LDA	1.2900e-003	1.1710e-003
tblVehicleEF	LDA	1.6800e-003	1.9100e-003
tblVehicleEF	LDA	0.02	2.5090e-003
tblVehicleEF	LDA	1.1880e-003	1.0780e-003
tblVehicleEF	LDA	1.5440e-003	1.7560e-003
tblVehicleEF	LDA	0.04	0.27
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	6.4090e-003	7.8860e-003
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.19	0.30
tblVehicleEF	LDA	2.3210e-003	2.4230e-003
tblVehicleEF	LDA	4.9300e-004	6.2800e-004

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tblVehicleEF	LDA	0.04	0.27
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	9.3170e-003	0.01
tblVehicleEF	LDA	0.03	0.20
tblVehicleEF	LDA	0.21	0.32
tblVehicleEF	LDT1	3.6010e-003	6.2220e-003
tblVehicleEF	LDT1	0.06	0.10
tblVehicleEF	LDT1	0.85	1.42
tblVehicleEF	LDT1	2.26	5.22
tblVehicleEF	LDT1	280.86	325.38
tblVehicleEF	LDT1	60.30	85.98
tblVehicleEF	LDT1	5.8110e-003	9.3750e-003
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.07	0.13
tblVehicleEF	LDT1	0.21	0.38
tblVehicleEF	LDT1	0.04	9.2260e-003
tblVehicleEF	LDT1	1.6380e-003	1.9270e-003
tblVehicleEF	LDT1	2.1080e-003	2.8980e-003
tblVehicleEF	LDT1	0.02	3.2290e-003
tblVehicleEF	LDT1	1.5070e-003	1.7740e-003
tblVehicleEF	LDT1	1.9380e-003	2.6650e-003
tblVehicleEF	LDT1	0.07	0.60
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.47
tblVehicleEF	LDT1	0.27	0.54
tblVehicleEF	LDT1	2.7790e-003	3.2170e-003

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tblVehicleEF	LDT1	5.9700e-004	8.5000e-004
tblVehicleEF	LDT1	0.07	0.60
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.08	0.47
tblVehicleEF	LDT1	0.30	0.59
tblVehicleEF	LDT2	2.9320e-003	2.8180e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.73	0.83
tblVehicleEF	LDT2	2.69	3.62
tblVehicleEF	LDT2	301.75	336.52
tblVehicleEF	LDT2	65.36	86.38
tblVehicleEF	LDT2	5.6680e-003	6.0160e-003
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.25	0.33
tblVehicleEF	LDT2	0.04	8.8660e-003
tblVehicleEF	LDT2	1.3400e-003	1.3330e-003
tblVehicleEF	LDT2	1.7010e-003	2.1080e-003
tblVehicleEF	LDT2	0.02	3.1030e-003
tblVehicleEF	LDT2	1.2340e-003	1.2260e-003
tblVehicleEF	LDT2	1.5640e-003	1.9380e-003
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	0.12	0.08
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.28	0.38

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tblVehicleEF	LDT2	2.9850e-003	3.3260e-003
tblVehicleEF	LDT2	6.4700e-004	8.5400e-004
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	0.12	0.08
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.31	0.42
tblVehicleEF	LHD1	4.9880e-003	5.3690e-003
tblVehicleEF	LHD1	7.8580e-003	8.1950e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.20
tblVehicleEF	LHD1	0.71	0.90
tblVehicleEF	LHD1	1.05	2.16
tblVehicleEF	LHD1	8.86	8.72
tblVehicleEF	LHD1	779.34	782.62
tblVehicleEF	LHD1	11.55	17.84
tblVehicleEF	LHD1	7.4200e-004	6.4000e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.04
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.65	0.66
tblVehicleEF	LHD1	0.30	0.44
tblVehicleEF	LHD1	8.4200e-004	6.8100e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.7790e-003	9.4140e-003
tblVehicleEF	LHD1	9.6230e-003	0.01
tblVehicleEF	LHD1	2.4700e-004	2.2700e-004
tblVehicleEF	LHD1	8.0500e-004	6.5100e-004

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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4450e-003	2.3540e-003
tblVehicleEF	LHD1	9.1590e-003	0.01
tblVehicleEF	LHD1	2.2800e-004	2.0900e-004
tblVehicleEF	LHD1	1.9120e-003	0.13
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.8500e-004	0.00
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	0.20	0.18
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD1	8.6000e-005	8.5000e-005
tblVehicleEF	LHD1	7.6080e-003	7.6450e-003
tblVehicleEF	LHD1	1.1400e-004	1.7600e-004
tblVehicleEF	LHD1	1.9120e-003	0.13
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.8500e-004	0.00
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.20	0.18
tblVehicleEF	LHD1	0.08	0.12
tblVehicleEF	LHD2	3.0380e-003	3.1580e-003
tblVehicleEF	LHD2	6.6540e-003	6.9670e-003
tblVehicleEF	LHD2	7.7290e-003	0.01
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.59	0.57
tblVehicleEF	LHD2	0.60	1.22
tblVehicleEF	LHD2	13.88	13.77
tblVehicleEF	LHD2	754.92	827.31

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tblVehicleEF	LHD2	7.59	9.92
tblVehicleEF	LHD2	1.7350e-003	1.6800e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.77	0.90
tblVehicleEF	LHD2	0.17	0.24
tblVehicleEF	LHD2	1.4370e-003	1.3710e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2700e-004	1.0100e-004
tblVehicleEF	LHD2	1.3750e-003	1.3110e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.6920e-003	2.6640e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.1700e-004	9.3000e-005
tblVehicleEF	LHD2	9.8500e-004	0.07
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.1400e-004	0.00
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	1.3300e-004	1.3200e-004
tblVehicleEF	LHD2	7.2890e-003	7.9720e-003
tblVehicleEF	LHD2	7.5000e-005	9.8000e-005
tblVehicleEF	LHD2	9.8500e-004	0.07
tblVehicleEF	LHD2	0.04	0.02

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.1400e-004	0.00
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	MCY	0.33	0.16
tblVehicleEF	MCY	0.25	0.18
tblVehicleEF	MCY	18.60	12.67
tblVehicleEF	MCY	9.06	8.00
tblVehicleEF	MCY	210.08	187.74
tblVehicleEF	MCY	60.71	48.38
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	8.0200e-003
tblVehicleEF	MCY	1.15	0.57
tblVehicleEF	MCY	0.27	0.14
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.9970e-003	1.9020e-003
tblVehicleEF	MCY	2.9300e-003	3.4560e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.8650e-003	1.7790e-003
tblVehicleEF	MCY	2.7520e-003	3.2480e-003
tblVehicleEF	MCY	0.90	3.90
tblVehicleEF	MCY	0.68	3.56
tblVehicleEF	MCY	0.49	0.00
tblVehicleEF	MCY	2.19	1.06
tblVehicleEF	MCY	0.53	3.75
tblVehicleEF	MCY	1.93	1.35
tblVehicleEF	MCY	2.0790e-003	1.8560e-003
tblVehicleEF	MCY	6.0100e-004	4.7800e-004

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tblVehicleEF	MCY	0.90	0.09
tblVehicleEF	MCY	0.68	3.56
tblVehicleEF	MCY	0.49	0.00
tblVehicleEF	MCY	2.72	1.28
tblVehicleEF	MCY	0.53	3.75
tblVehicleEF	MCY	2.10	1.46
tblVehicleEF	MDV	3.4000e-003	3.7500e-003
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.78	0.94
tblVehicleEF	MDV	2.95	3.90
tblVehicleEF	MDV	364.87	405.81
tblVehicleEF	MDV	77.92	103.32
tblVehicleEF	MDV	7.5920e-003	8.3410e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.29	0.41
tblVehicleEF	MDV	0.04	9.0000e-003
tblVehicleEF	MDV	1.4300e-003	1.3730e-003
tblVehicleEF	MDV	1.8100e-003	2.1610e-003
tblVehicleEF	MDV	0.02	3.1500e-003
tblVehicleEF	MDV	1.3190e-003	1.2660e-003
tblVehicleEF	MDV	1.6640e-003	1.9870e-003
tblVehicleEF	MDV	0.07	0.35
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.06	0.27
tblVehicleEF	MDV	0.34	0.49
tblVehicleEF	MDV	3.6060e-003	4.0090e-003

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tblVehicleEF	MDV	7.7100e-004	1.0210e-003
tblVehicleEF	MDV	0.07	0.35
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.07	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.27
tblVehicleEF	MDV	0.38	0.54
tblVehicleEF	MH	9.5570e-003	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.93	1.29
tblVehicleEF	MH	2.03	2.49
tblVehicleEF	MH	1,501.42	1,686.59
tblVehicleEF	MH	18.14	22.55
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.31	1.54
tblVehicleEF	MH	0.24	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.6100e-004	3.1300e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2790e-003	3.3010e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.4000e-004	2.8800e-004
tblVehicleEF	MH	0.64	32.73
tblVehicleEF	MH	0.05	8.70
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MH	0.06	0.08

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tblVehicleEF	MH	0.01	0.20
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7900e-004	2.2300e-004
tblVehicleEF	MH	0.64	32.73
tblVehicleEF	MH	0.05	8.70
tblVehicleEF	MH	0.23	0.00
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	0.01	0.20
tblVehicleEF	MH	0.10	0.12
tblVehicleEF	MHD	3.5790e-003	0.01
tblVehicleEF	MHD	1.6940e-003	9.6580e-003
tblVehicleEF	MHD	9.1320e-003	8.7730e-003
tblVehicleEF	MHD	0.39	0.67
tblVehicleEF	MHD	0.23	0.35
tblVehicleEF	MHD	1.07	1.07
tblVehicleEF	MHD	72.08	160.26
tblVehicleEF	MHD	1,080.76	1,229.18
tblVehicleEF	MHD	9.15	8.53
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.14	0.16
tblVehicleEF	MHD	7.2440e-003	6.0320e-003
tblVehicleEF	MHD	0.41	0.89
tblVehicleEF	MHD	1.45	1.11
tblVehicleEF	MHD	1.70	1.41
tblVehicleEF	MHD	3.6900e-004	2.1280e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	7.0230e-003	0.01
tblVehicleEF	MHD	1.1500e-004	1.0700e-004

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tblVehicleEF	MHD	3.5300e-004	2.0350e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.7130e-003	0.01
tblVehicleEF	MHD	1.0600e-004	9.8000e-005
tblVehicleEF	MHD	3.8300e-004	0.03
tblVehicleEF	MHD	0.02	6.2600e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	1.9800e-004	0.00
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	6.8400e-004	1.4900e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.1000e-005	8.4000e-005
tblVehicleEF	MHD	3.8300e-004	0.03
tblVehicleEF	MHD	0.02	6.2600e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	1.9800e-004	0.00
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	OBUS	7.0640e-003	7.4580e-003
tblVehicleEF	OBUS	3.6240e-003	9.2750e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.58	0.51
tblVehicleEF	OBUS	0.43	0.49
tblVehicleEF	OBUS	1.84	1.96
tblVehicleEF	OBUS	92.66	85.71
tblVehicleEF	OBUS	1,326.08	1,388.86

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tblVehicleEF	OBUS	15.18	15.49
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.13	0.16
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.38	0.37
tblVehicleEF	OBUS	1.47	1.01
tblVehicleEF	OBUS	1.09	0.98
tblVehicleEF	OBUS	1.2200e-004	4.2300e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.3930e-003	0.02
tblVehicleEF	OBUS	1.4500e-004	1.3400e-004
tblVehicleEF	OBUS	1.1700e-004	4.0500e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.0600e-003	0.02
tblVehicleEF	OBUS	1.3300e-004	1.2400e-004
tblVehicleEF	OBUS	1.0900e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	4.8500e-004	0.00
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	OBUS	8.8000e-004	8.1100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.5000e-004	1.5300e-004
tblVehicleEF	OBUS	1.0900e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	4.8500e-004	0.00

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tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.10	0.10
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	6.0180e-003	0.09
tblVehicleEF	SBUS	4.9720e-003	4.8000e-003
tblVehicleEF	SBUS	2.27	1.65
tblVehicleEF	SBUS	0.49	0.88
tblVehicleEF	SBUS	0.72	0.66
tblVehicleEF	SBUS	346.78	189.38
tblVehicleEF	SBUS	1,049.23	1,027.72
tblVehicleEF	SBUS	4.12	3.73
tblVehicleEF	SBUS	0.05	0.03
tblVehicleEF	SBUS	0.13	0.13
tblVehicleEF	SBUS	4.7550e-003	4.2250e-003
tblVehicleEF	SBUS	3.44	1.39
tblVehicleEF	SBUS	4.65	2.57
tblVehicleEF	SBUS	0.86	0.48
tblVehicleEF	SBUS	3.6120e-003	1.3090e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	4.8000e-005	4.0000e-005
tblVehicleEF	SBUS	3.4560e-003	1.2520e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7190e-003	2.6500e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	4.4000e-005	3.6000e-005
tblVehicleEF	SBUS	5.6700e-004	0.03

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tblVehicleEF	SBUS	5.5090e-003	7.3010e-003
tblVehicleEF	SBUS	0.25	0.18
tblVehicleEF	SBUS	2.4700e-004	0.00
tblVehicleEF	SBUS	0.08	0.06
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.3010e-003	1.7230e-003
tblVehicleEF	SBUS	0.01	9.5530e-003
tblVehicleEF	SBUS	4.1000e-005	3.7000e-005
tblVehicleEF	SBUS	5.6700e-004	0.03
tblVehicleEF	SBUS	5.5090e-003	7.3010e-003
tblVehicleEF	SBUS	0.36	0.30
tblVehicleEF	SBUS	2.4700e-004	0.00
tblVehicleEF	SBUS	0.10	0.16
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	UBUS	1.35	0.35
tblVehicleEF	UBUS	1.5380e-003	3.7340e-003
tblVehicleEF	UBUS	10.12	4.17
tblVehicleEF	UBUS	0.14	0.53
tblVehicleEF	UBUS	1,597.16	1,098.80
tblVehicleEF	UBUS	1.39	3.20
tblVehicleEF	UBUS	0.26	0.17
tblVehicleEF	UBUS	1.0770e-003	6.2180e-003
tblVehicleEF	UBUS	0.73	0.33
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	5.3280e-003	6.2290e-003

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tblVehicleEF	UBUS	1.5000e-005	1.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	8.3320e-003	8.1710e-003
tblVehicleEF	UBUS	5.0960e-003	5.9560e-003
tblVehicleEF	UBUS	1.4000e-005	1.1000e-005
tblVehicleEF	UBUS	2.1000e-005	9.8940e-003
tblVehicleEF	UBUS	1.6100e-004	3.3030e-003
tblVehicleEF	UBUS	9.0000e-006	0.00
tblVehicleEF	UBUS	0.02	0.06
tblVehicleEF	UBUS	2.9000e-005	7.9870e-003
tblVehicleEF	UBUS	6.4070e-003	0.01
tblVehicleEF	UBUS	0.01	9.4250e-003
tblVehicleEF	UBUS	1.4000e-005	3.2000e-005
tblVehicleEF	UBUS	2.1000e-005	9.8940e-003
tblVehicleEF	UBUS	1.6100e-004	3.3030e-003
tblVehicleEF	UBUS	9.0000e-006	0.00
tblVehicleEF	UBUS	1.38	0.42
tblVehicleEF	UBUS	2.9000e-005	7.9870e-003
tblVehicleEF	UBUS	7.0150e-003	0.01
tblVehicleTrips	ST_TR	8.19	10.55
tblVehicleTrips	SU_TR	5.95	7.66
tblVehicleTrips	WD_TR	8.36	10.77
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2128	1.9736	2.1464	3.6500e-003	0.0785	0.095	0.1735	0.0391	0.0891	0.1282	0.0000	314.9860	314.9860	0.0787	0.0000	316.9532
2024	0.9377	0.1765	0.2399	3.9000e-004	0.0000	8.26E-03	8.2600e-003	0.0000	7.78E-03	7.7800e-003	0.0000	33.6071	33.6071	7.9300e-003	0.0000	33.8053
Maximum	0.9377	1.9736	2.1464	3.6500e-003	0.0785	0.0950	0.1735	0.0391	0.0891	0.1282	0.0000	314.9860	314.9860	0.0787	0.0000	316.9532

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0700	1.4438	2.4092	3.6500e-003	0.0353	0.0104	0.0457	0.0176	0.0104	0.0280	0.0000	314.9856	314.9856	0.0787	0.0000	316.9528
2024	0.9249	0.1560	0.2640	3.9000e-004	0.0000	8.2000e-004	8.2000e-004	0.0000	8.2000e-004	8.2000e-004	0.0000	33.6070	33.6070	7.9300e-003	0.0000	33.8053
Maximum	0.9249	1.4438	2.4092	3.6500e-003	0.0353	0.0104	0.0457	0.0176	0.0104	0.0280	0.0000	314.9856	314.9856	0.0787	0.0000	316.9528

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	13.52	25.59	-12.02	0.00	55.00	89.15	74.40	55.00	88.44	78.82	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.6143	0.3875
2	4-2-2023	7-1-2023	0.5186	0.3720
3	7-2-2023	10-1-2023	0.5243	0.3761
4	10-2-2023	1-1-2024	0.5240	0.3761
5	1-2-2024	4-1-2024	1.0642	1.0327
		Highest	1.0642	1.0327

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7750	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9300e-003	3.9300e-003	1.0000e-005	0.0000	4.19E-03
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	285.7909	285.7909	0.0531	6.4300e-003	289.035
Mobile	0.7424	0.4798	4.3400	8.7500e-003	0.7952	6.4100e-003	0.8016	0.1983	5.9800e-003	0.2043	0.0000	807.8528	807.8528	0.0521	0.0413	821.4577
Waste						0.0000	0.0000		0.0000	0.0000	13.3365	0.0000	13.3365	0.7882	0.0000	33.0406
Water						0.0000	0.0000		0.0000	0.0000	1.0770	1.4230	2.4999	3.9700e-003	2.3700e-003	3.3067
Total	1.5173	0.4798	4.3421	8.7500e-003	0.7952	6.4200e-003	0.8016	0.1983	5.9900e-003	0.2043	14.4135	1,095.0707	1,109.4842	0.8973	0.0501	1,146.8442

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7750	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9300e-003	3.9300e-003	1.0000e-005	0.0000	4.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	285.7909	285.7909	0.0531	6.4300e-003	289.0350
Mobile	0.7424	0.4798	4.3400	8.7500e-003	0.7952	6.4100e-003	0.8016	0.1983	5.9800e-003	0.2043	0.0000	807.8528	807.8528	0.0521	0.0413	821.4577
Waste						0.0000	0.0000		0.0000	0.0000	13.3365	0.0000	13.3365	0.7882	0.0000	33.0406
Water						0.0000	0.0000		0.0000	0.0000	1.0770	1.4230	2.4999	3.9700e-003	2.3700e-003	3.3067
Total	1.5173	0.4798	4.3421	8.7500e-003	0.7952	6.4200e-003	0.8016	0.1983	5.9900e-003	0.2043	14.4135	1,095.0707	1,109.4842	0.8973	0.0501	1,146.8442

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/27/2023	5	20	
2	Site Preparation	Site Preparation	1/28/2023	2/3/2023	5	5	
3	Grading	Grading	2/4/2023	2/15/2023	5	8	

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4	Trenching	Trenching	2/16/2023	2/27/2023	5	8
5	Building Construction	Building Construction	2/28/2023	1/15/2024	5	230
6	Architectural Coating	Architectural Coating	1/16/2024	2/8/2024	5	18
7	Paving	Paving	2/9/2024	3/5/2024	5	18

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 0.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 261,360; Non-Residential Outdoor: 87,120; Striped Parking Area: 2,400

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Generator Sets	1	6.00	84	0.74

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8000e-004	0.0000	9.8000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2456	0.2411	4.5000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	39.4638	39.4638	0.0113	0.0000	39.7460
Total	0.0257	0.2456	0.2411	4.5000e-004	9.8000e-004	0.0115	0.0125	1.5000e-004	0.0107	0.0108	0.0000	39.4638	39.4638	0.0113	0.0000	39.7460

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.4000e-004	0.0000	4.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2300e-003	0.1627	0.2936	4.5000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	39.4637	39.4637	0.0113	0.0000	39.7460
Total	7.2300e-003	0.1627	0.2936	4.5000e-004	4.4000e-004	7.2000e-004	1.1600e-003	7.0000e-005	7.2000e-004	7.9000e-004	0.0000	39.4637	39.4637	0.0113	0.0000	39.7460

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	6.6500e-003	0.0688	0.0456	1.0000e-004	0.0491	3.1700e-003	0.0523	0.0253	2.9100e-003	0.0282	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0304	0.0574	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	1.7400e-003	0.0304	0.0574	1.0000e-004	0.0221	1.6000e-004	0.0223	0.0114	1.6000e-004	0.0115	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Grading - 2023

Unmitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0284	0.0000	0.0284	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085
Total	6.8400e-003	0.0717	0.0590	1.2000e-004	0.0284	3.1000e-003	0.0315	0.0137	2.8500e-003	0.0166	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	6.1700e-003	0.0000	6.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0800e-003	0.0413	0.0760	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085
Total	2.0800e-003	0.0413	0.0760	1.2000e-004	0.0128	1.9000e-004	0.0130	6.1700e-003	1.9000e-004	6.3600e-003	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Trenching - 2023

Unmitigated Construction On-Site

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3600e-003	0.0123	0.0220	3.0000e-005		6.1000e-004	6.1000e-004		5.6000e-004	5.6000e-004	0.0000	2.9091	2.9091	9.4000e-004	0.0000	2.9326
Total	1.3600e-003	0.0123	0.0220	3.0000e-005		6.1000e-004	6.1000e-004		5.6000e-004	5.6000e-004	0.0000	2.9091	2.9091	9.4000e-004	0.0000	2.9326

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr									MT/yr						
	Off-Road	5.3000e-004	0.0145	0.0250	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.9091	2.9091	9.4000e-004	0.0000
Total	5.3000e-004	0.0145	0.0250	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.9091	2.9091	9.4000e-004	0.0000	2.9326

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1722	1.5752	1.7787	2.9500e-003		0.0766	0.0766		0.0721	0.0721	0.0000	253.8262	253.8262	0.0604	0.0000	255.3357
Total	0.1722	1.5752	1.7787	2.9500e-003		0.0766	0.0766		0.0721	0.0721	0.0000	253.8262	253.8262	0.0604	0.0000	255.3357

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0584	1.1949	1.9572	2.9500e-003		9.2600e-003	9.2600e-003		9.2600e-003	9.2600e-003	0.0000	253.8259	253.8259	0.0604	0.0000	255.3354

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	0.0584	1.1949	1.9572	2.9500e-003		9.2600e-003	9.2600e-003		9.2600e-003	9.2600e-003	0.0000	253.8259	253.8259	0.0604	0.0000	255.3354
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0900e-003	0.0739	0.0889	1.5000e-004		3.3700e-003	3.3700e-003		3.1700e-003	3.1700e-003	0.0000	12.7517	12.7517	3.0200e-003	0.0000	12.8271
Total	8.0900e-003	0.0739	0.0889	1.5000e-004		3.3700e-003	3.3700e-003		3.1700e-003	3.1700e-003	0.0000	12.7517	12.7517	3.0200e-003	0.0000	12.8271

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9300e-003	0.0600	0.0983	1.5000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	12.7517	12.7517	3.0200e-003	0.0000	12.8271
Total	2.9300e-003	0.0600	0.0983	1.5000e-004		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	12.7517	12.7517	3.0200e-003	0.0000	12.8271

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0281	0.0410	7.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	6.1131	6.1131	2.8000e-004	0.0000	6.1202
Total	0.9205	0.0281	0.0410	7.0000e-005		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	6.1131	6.1131	2.8000e-004	0.0000	6.1202

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3000e-003	0.0254	0.0439	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	6.1131	6.1131	2.8000e-004	0.0000	6.1202
Total	0.9182	0.0254	0.0439	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	6.1131	6.1131	2.8000e-004	0.0000	6.1202

Mitigated Construction Off-Site

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.8 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.1100e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581

Unmitigated Construction Off-Site

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6200e-003	0.0706	0.1218	1.7000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8000e-003	0.0706	0.1218	1.7000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581

Mitigated Construction Off-Site

Fairfield Inn, 1669 Monterey Rd, San Jose - Santa Clara County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7424	0.4798	4.3400	8.7500e-003	0.7952	6.4100e-003	0.8016	0.1983	5.9800e-003	0.2043	0.0000	807.8528	807.8528	0.0521	0.0413	821.4577
Unmitigated	0.7424	0.4798	4.3400	8.7500e-003	0.7952	6.4100e-003	0.8016	0.1983	5.9800e-003	0.2043	0.0000	807.8528	807.8528	0.0521	0.0413	821.4577

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	1,292.40	1,266.00	919.20	2,347,012	2,347,012
Parking Lot	0.00	0.00	0.00		
Total	1,292.40	1,266.00	919.20	2,347,012	2,347,012

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.531160	0.041583	0.227794	0.127091	0.023141	0.005641	0.009358	0.007307	0.001055	0.000417	0.022105	0.000682	0.002666
Parking Lot	0.531160	0.041583	0.227794	0.127091	0.023141	0.005641	0.009358	0.007307	0.001055	0.000417	0.022105	0.000682	0.002666

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	285.7909	285.7909	0.0531	6.4300e-003	289.0350
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	285.7909	285.7909	0.0531	6.4300e-003	289.0350
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas
Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					

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Hotel	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	3.53184e+006	284.6626	0.0529	6.4100e-003	287.8938
Parking Lot	14000	1.1284	2.1000e-004	3.0000e-005	1.1412
Total		285.7909	0.0531	6.4400e-003	289.0350

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	3.53184e+006	284.6626	0.0529	6.4100e-003	287.8938

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products	0.6831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	1.9000e-004	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9300e-003	3.9300e-003	1.0000e-005	0.0000	4.1900e-003
Total	0.7750	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9300e-003	3.9300e-003	1.0000e-005	0.0000	4.1900e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0917					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6831					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9300e-003	3.9300e-003	1.0000e-005	0.0000	4.1900e-003
Total	0.7750	2.0000e-005	2.0200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.9300e-003	3.9300e-003	1.0000e-005	0.0000	4.1900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.4999	3.9700e-003	2.3700e-003	3.3067
Unmitigated	2.4999	3.9700e-003	2.3700e-003	3.3067

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.04401 / 0.338224	2.4999	3.9700e-003	2.3700e-003	3.3067
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.4999	3.9700e-003	2.3700e-003	3.3067

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hotel	3.04401 / 0.338224	2.4999	3.9700e-003	2.3700e-003	3.3067
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.4999	3.9700e-003	2.3700e-003	3.3067

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.3365	0.7882	0.0000	33.0406
Unmitigated	13.3365	0.7882	0.0000	33.0406

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hotel	65.7	13.3365	0.7882	0.0000	33.0406
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		13.3365	0.7882	0.0000	33.0406

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	65.7	13.3365	0.7882	0.0000	33.0406
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		13.3365	0.7882	0.0000	33.0406

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Attachment 3: EMFAC2021 Calculations

Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants YEAR	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	NBio- CO2	CH4	N2O	CO2e
	<i>Tons</i>										<i>Metric Tons</i>			
Criteria Pollutants														
2023-2024	0.0371	0.1827	0.4226	0.0018	0.0993	0.0124	0.1117	0.0149	0.0051	0.0200	168.6378	0.0084	0.0166	173.8037
Toxic Air Contaminants (0.5 Mile Trip Length)														
2023-2024	0.0313	0.0593	0.1429	0.0002	0.0050	0.0008	0.0058	0.0008	0.0004	0.0011	15.4509	0.0033	0.0025	16.2670

CalEEMod Construction Inputs

Phase	CalEEMod	CalEEMod	Total	Total	CalEEMod	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor Vehicle	Hauling Vehicle	Worker	Vendor	Hauling
	WORKER	VENDOR	Worker	Vendor	HAULING									
	TRIPS	TRIPS	Trips	Trips	TRIPS									
Demolition	20	0	400	0	96	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	4320	0	1920
Site Preparation	18	0	90	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	972	0	0
Grading	15	0	120	0	62	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	1296	0	1240
Trenching	5	0	40	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	432	0	0
Building Construction	90	35	20700	8050	111	10.8	7.3	7.3	LD_Mix	HDT_Mix	HHDT	223560	58765	810.3
Architectural Coating	18	0	324	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	3499.2	0	0
Paving	20	0	360	0	87	10.8	7.3	7.3	LD_Mix	HDT_Mix	HHDT	3888	0	635.1

Number of Days Per Year

2023-2024	1/2/23	3/5/24	429	307
			429	307 Total Workdays

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	1/2/2023	1/27/2023	5	20
Site Preparation	1/28/2023	2/3/2023	5	5
Grading	2/4/2023	2/15/2023	5	8
Trenching	2/16/2023	2/27/2023	5	8
Building Construction	2/28/2023	1/15/2024	5	230
Architectural Coating	1/16/2024	2/8/2024	5	18
Paving	2/9/2024	3/5/2024	5	18

Category	Mtx %	Adj	ROG_DIURN	ROG_HTSK	ROG_IDLEX	ROG_RESTL	ROG_RUNEX	ROG_RUNLS	ROG_STREX	NOX_IDLEX	NOX_RUNEX	NOX_STREX	CO_IDLEX	CO_RUNEX	CO_STREX	SO2_IDLEX	SO2_RUNEX	SO2_STREX	Road Dust	PM10	PM10_PM	PM10_PM	PM10	PM10_RU	PM10_STREX	Road Dust	PM25_PM	PM25_PM	PM25_PM	PM25_IDL	PM25_RUN	PM25_STR	CO2_NBIO	CO2_NBIO	CO2_NBIO	CH4_IDLE	CH4_RUNEX	CH4_STREX	N2O_IDLEX	N2O_RUNEX	N2O_STREX
			BW	TW	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX
Hauling	100.0	1	0.00207604	8.55424E-05	0.322404817	0	0.01953334	0.0077057	0.28839E-07	4.1629787	1.92848649	1.692504026	5.2118988	0.79481483	0.0030555	0.00746083	0.01488345	2.65981E-07	0.0814444	0.025123	0.0022823	0.025823	9.38684E-07	0.0028506	0.008781	0.001179	0.0247116	9.183E-07	850.51039	1643.9479	0.0306948	0.235881	0.125647179	9.74075E-08	0.136898	0.202148415	2.46823E-05	0.024829	0.159885109	0.00696523	
	0.0	0	0.028424515	0.006961572	0.027529656	0	0.04434978	0.05660825	0.052337336	0.9240436	1.235274528	1.396113281	0.673566	0.40377012	1.152494	0.00150213	0.011767743	8.73536E-05	0.299	0.045469	0.012	0.002542	0.014931	0.000112942	0.04499	0.015914	0.003	0.002481	0.0142769	0.0001038	161.33734	1239.5984	8.8359741	0.013943	0.009906777	0.009245497	0.024829	0.159885109	0.00696523		
Vendor	50.0	0.5	0.000143802	4.37712E-05	0.136203408	0	0.00796607	0.00038029	2.6442E-07	2.0814953	0.803340325	1.346252013	2.605994	0.35740743	0.000277	0.00373041	0.007444735	1.33093E-07	0.040722	0.017561	0.001142	0.012916	4.38342E-07	0.014263	0.004639	0.001089	0.0123058	4.051E-07	425.2552	821.5295	0.0134624	0.11794	0.06282359	4.87037E-08	0.008449	0.131074308	1.23411E-05	0.008449	0.131074308	1.23411E-05	
	50.0	0.5	0.014212257	0.003480786	0.013764828	0	0.02217489	0.02830413	0.026168668	0.4620218	0.609637264	0.698056641	0.338783	0.20188506	0.579247	0.00975106	0.000883871	4.36763E-05	0.299	0.02735	0.006	0.002271	0.007465	5.68711E-05	0.007957	0.00315	0.0001216	0.0073384	5.192E-05	80.66807	613.79918	4.417387	0.006471	0.004953388	0.004622749	0.012414	0.079945554	0.003048262	0.012414	0.079945554	0.003048262
	1	0.01435606	0.003523557	0.179967236	0	0.03194156	0.02868941	0.026168932	2.5435111	1.574875589	2.044308854	2.9427777	0.59929248	0.576524	0.00448148	0.013325596	4.38093E-05	0.299	0.063457	0.023561	0.002413	0.020382	5.69705E-05	0.04499	0.02221	0.000589	0.002305	0.0194942	5.238E-05	505.92387	1441.3231	4.4314394	0.0124412	0.067776978	0.004622797	0.080863	0.211016762	0.003060603	0.080863	0.211016762	0.003060603
Worker	50.0	0.5	0.143306127	0.043683769	0	0.0045285	0.10768412	0.159592017	0	0.021192179	0.122461753	0	0.35011163	1.546631	0	0.001247244	0.00032278	0	0.0036	0.004	0	0.000614	0.000990927	0.00126	0.001	0	0.0005655	0.0009111	0	126.17319	32.650143	0	0.001154545	0.034539145	0	0.00224937	0.015441065	0	0.00224937	0.015441065	
	25.0	0.25	0.156677436	0.0432923	0	0.00778025	0.12516577	0.145126689	0	0.035722679	0.10064187	0	0.38639467	1.408382	0	0.000818289	0.000217331	0	0.002307	0.002	0	0.000514	0.000767762	0.000807	0.0005	0	0.0004735	0.000706	0	82.773349	21.983712	0	0.00173807	0.028010471	0	0.00255413	0.009913954	0	0.00255413	0.009913954	
	25.0	0.25	0.074138092	0.021036563	0	0.00307324	0.05534742	0.101568939	0	0.019062039	0.088569484	0	0.22137906	0.96209	0	0.000853405	0.000219425	0	0.002219	0.002	0	0.000345	0.000540097	0.000777	0.0005	0	0.0003173	0.0004966	0	86.33608	22.19552	0	0.000769908	0.021709383	0	0.001616766	0.009562758	0	0.001616766	0.009562758	
	1	0.074122256	0.107049562	0	0.0153862	0.28819731	0.406286645	0	0.079376897	0.311454925	0	0.35080317	3.917103	0	0.002918938	0.000799537	0	0.299	0.008126	0.008	0	0.001473	0.002298785	0.04499	0.002644	0.002	0	0.0013963	0.0021137	0	295.28262	76.829375	0	0.00366324	0.084258998	0	0.004420266	0.034917777	0	0.004420266	0.034917777

CalEEMod EMFAC2021 Emission Factors Input

Year 2024

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.005369	0.003158	0.013383	0.232934116	0.007458	0	0	0.074531	0
A	CH4_RUNEX	0.002053	0.006222	0.002818	0.00375	0.008195	0.006967	0.009658	0.121678903	0.009275	0.353982676	0.162609	0.091035	0.012488
A	CH4_STREX	0.06472	0.104817	0.081929	0.09875	0.022831	0.012442	0.008773	8.02769E-08	0.017671	0.00373411	0.181972	0.0048	0.026745
A	CO_IDLEX	0	0	0	0	0.196553	0.142433	0.671381	5.195559849	0.514566	0	0	1.654918	0
A	CO_RUNEX	0.649736	1.418728	0.829336	0.94329	0.900659	0.571321	0.346173	0.774886828	0.491534	4.169725719	12.6697	0.884386	1.294901
A	CO_STREX	2.891746	5.224818	3.623598	3.897928	2.161459	1.21759	1.07433	0.000626211	1.960551	0.531545824	8.002987	0.664389	2.491606
A	CO2_NBIO_IDLEX	0	0	0	0	8.718619	13.77168	160.2598	832.3166934	85.70845	0	0	189.3786	0
A	CO2_NBIO_RUNEX	245.0824	325.3768	336.518	405.8146	782.6209	827.3106	1229.181	1617.129696	1388.863	1098.799805	187.743	1027.722	1686.59
A	CO2_NBIO_STREX	63.50921	85.97601	86.38427	103.3242	17.83745	9.92491	8.529312	0.019573043	15.49228	3.203569186	48.37697	3.726088	22.54937
A	NOX_IDLEX	0	0	0	0	0.048387	0.092995	0.892859	4.075118036	0.365684	0	0	1.387931	0
A	NOX_RUNEX	0.037369	0.127832	0.068032	0.098516	0.66417	0.895916	1.112922	1.850604526	1.007061	0.328284112	0.571344	2.57268	1.5351
A	NOX_STREX	0.230953	0.379266	0.329632	0.414782	0.44074	0.241786	1.407896	2.731408381	0.979918	0.039644426	0.135477	0.480958	0.299202
A	PM10_IDLEX	0	0	0	0	0.000681	0.001371	0.002128	0.002182492	0.000423	0	0	0.001309	0
A	PM10_PMBW	0.007168	0.009226	0.008866	0.009	0.077823	0.090794	0.045399	0.08129752	0.049798	0.11066361	0.012	0.044858	0.044947
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.009414	0.010658	0.012	0.035125425	0.012	0.032683644	0.004	0.0106	0.013206
A	PM10_RUNEX	0.001171	0.001927	0.001333	0.001373	0.014027	0.022761	0.012985	0.025474433	0.015841	0.006229362	0.001902	0.013303	0.03019
A	PM10_STREX	0.00191	0.002898	0.002108	0.002161	0.000227	0.000101	0.000107	6.09682E-07	0.000134	1.21066E-05	0.003456	3.95E-05	0.000313
A	PM25_IDLEX	0	0	0	0	0.000651	0.001311	0.002035	0.002082052	0.000405	0	0	0.001252	0
A	PM25_PMBW	0.002509	0.003229	0.003103	0.00315	0.027238	0.031778	0.01589	0.028454132	0.017429	0.038732263	0.0042	0.0157	0.015732
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.002354	0.002664	0.003	0.008781356	0.003	0.008170911	0.001	0.00265	0.003301
A	PM25_RUNEX	0.001078	0.001774	0.001226	0.001266	0.01338	0.021758	0.012415	0.0243688	0.015147	0.005956092	0.001779	0.012712	0.028836
A	PM25_STREX	0.001756	0.002665	0.001938	0.001987	0.000209	9.28E-05	9.82E-05	5.6058E-07	0.000124	1.11315E-05	0.003248	3.63E-05	0.000288
A	ROG_DIURN	0.273594	0.595257	0.288173	0.350288	0.128573	0.066802	0.025795	0.000195977	0.069031	0.00989389	3.900294	0.027017	32.73442
A	ROG_IDTSK	0.08102	0.164422	0.0806	0.094021	0.032798	0.017191	0.00626	5.82846E-05	0.0166	0.00330336	3.559276	0.007301	8.700008
A	ROG_IDLEX	0	0	0	0	0.021942	0.01599	0.026359	0.329789936	0.040067	0	0	0.181581	0
A	ROG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.007886	0.027617	0.0111	0.015872	0.087722	0.115408	0.038113	0.018605536	0.047576	0.063024567	1.062175	0.055863	0.083758
A	ROG_RUNLS	0.204737	0.46982	0.214357	0.266704	0.182065	0.092651	0.050964	0.000525006	0.075921	0.007986926	3.75283	0.017605	0.204308
A	ROG_STREX	0.295072	0.536464	0.379183	0.493019	0.113203	0.061169	0.048943	4.36152E-07	0.093584	0.013264046	1.345317	0.027327	0.113367
A	SO2_IDLEX	0	0	0	0	8.49E-05	0.000132	0.00149	0.007280347	0.000811	0	0	0.001723	0
A	SO2_RUNEX	0.002423	0.003217	0.003326	0.004009	0.007645	0.007972	0.011664	0.014635772	0.013275	0.009424712	0.001856	0.009553	0.01654
A	SO2_STREX	0.000628	0.00085	0.000854	0.001021	0.000176	9.81E-05	8.43E-05	1.93499E-07	0.000153	3.16705E-05	0.000478	3.68E-05	0.000223
A	TOG_DIURN	0.273594	0.595257	0.288173	0.350288	0.128573	0.066802	0.025795	0.000195977	0.069031	0.00989389	0.086215	0.027017	32.73442
A	TOG_HTSK	0.08102	0.164422	0.0806	0.094021	0.032798	0.017191	0.00626	5.82846E-05	0.0166	0.00330336	3.559276	0.007301	8.700008
A	TOG_IDLEX	0	0	0	0	0.031162	0.021623	0.043266	0.594148623	0.053137	0	0	0.296054	0
A	TOG_RESTL	0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.011489	0.040276	0.016182	0.023096	0.108455	0.134423	0.053054	0.142671417	0.063874	0.424552446	1.276951	0.155502	0.11065
A	TOG_RUNLS	0.204737	0.46982	0.214357	0.266704	0.182065	0.092651	0.050964	0.000525006	0.075921	0.007986926	3.75283	0.017605	0.204308
A	TOG_STREX	0.323066	0.58736	0.415158	0.539792	0.123943	0.066973	0.053586	4.77531E-07	0.102462	0.014522461	1.462608	0.029919	0.124122
A	N2O_IDLEX	0	0	0	0	0.00064	0.00168	0.024689	0.134071724	0.012191	0	0	0.02511	0
A	N2O_RUNEX	0.004162	0.009375	0.006016	0.008341	0.04145	0.08248	0.15825	0.258076714	0.157784	0.166507004	0.039558	0.128269	0.069357
A	N2O_STREX	0.029881	0.038494	0.03679	0.03974	0.035265	0.019211	0.006032	1.94763E-05	0.015206	0.006218272	0.00802	0.004225	0.031398

CalEEMod EMFAC2021 Fleet Mix Input**Year 2024**

FleetMixLandUseSubType LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Hotel	0.53116	0.041583	0.227794	0.127091	0.023141	0.005641	0.009358	0.007307	0.001055	0.000417	0.022105	0.000682	0.002666
Parking Lot	0.53116	0.041583	0.227794	0.127091	0.023141	0.005641	0.009358	0.007307	0.001055	0.000417	0.022105	0.000682	0.002666

Adjustment Factors	Vehicle Category	Fuel	Population	Pop Fract	VMT (miles/day)	VMT Fract	Trips/day	Trip Fract
	HHDT	GAS	2.58870796	1.95479E-05	115.1525769	0.0001088	51.79486882	0.000391
	HHDT	DSL	8486.69344	0.064085007	1001095.457	0.9456821	124748.3826	0.942004
	HHDT	ELEC	28.3303862	0.000213929	2794.260589	0.0026396	378.794564	0.00286
	HHDT	NG	794.400964	0.005998707	54591.27048	0.0515695	7249.716942	0.054744
			9312.0135		1058596.14		132428.689	
	LDA	GAS	600108.166	0.190572388	22290343.74	0.8713379	2786616.833	0.884928
	LDA	DSL	1750.02352	0.000555743	51573.47594	0.002016	7442.609511	0.002364
	LDA	ELEC	57627.4034	0.018300354	2472767.413	0.0966614	282732.9828	0.089786
	LDA	PIH	17457.0988	0.005543736	767059.2064	0.0299846	72185.10346	0.022923
			676942.692		25581743.84		3148977.529	
	LDT1	GAS	52693.3661	0.22315027	1706864.169	0.9932977	234793.4065	0.994323
	LDT1	DSL	23.4623252	9.93602E-05	343.9307557	0.0002001	66.44458855	0.000281
	LDT1	ELEC	211.002813	0.000893572	8008.645616	0.0046606	994.4346051	0.004211
	LDT1	PIH	67.6457784	0.000286472	3164.460326	0.0018415	279.7152939	0.001185
			52995.477		1718381.206		236134.001	
	LDT2	GAS	285585.435	0.210271162	10322758.41	0.9820916	1336438.482	0.983994
	LDT2	DSL	1015.45285	0.000747659	37944.25501	0.00361	4835.433637	0.00356
	LDT2	ELEC	1597.56671	0.001176258	55532.59168	0.0052833	8150.926864	0.006001
	LDT2	PIH	2116.57955	0.001558398	94757.7077	0.0090151	8752.056437	0.006444
			290315.034		10510992.96		1358176.899	
	LHDT1	GAS	19314.1424	0.046441179	722529.3133	0.6418809	287751.9438	0.691904
	LHDT1	DSL	10107.7368	0.024304222	398004.1011	0.353579	127142.6136	0.305717
	LHDT1	ELEC	70.8283556	0.000170308	5110.544281	0.0045401	989.4272741	0.002379
			29492.7076	0.070915709	1125643.959		415883.9847	
	LHDT2	GAS	2506.9057	0.026111	91452.57471	0.331033	37349.15959	0.389015
	LHDT2	DSL	4663.45548	0.048572823	183558.3761	0.6644305	58660.40334	0.610985
	LHDT2	ELEC	18.3325933	0.000190945	1253.286273	0.0045365	242.6680052	0.002528
			7188.69377	0.074874768	276264.2371		96009.56293	
	MCY	GAS	28171.5095	0.022104648	166022.3441	1	56343.01906	1
	MDV	GAS	156642.427	0.208531065	5468053.925	0.9650793	726101.0934	0.966626
	MDV	DSL	2400.61454	0.003195831	86292.68513	0.0152302	11318.82209	0.015068
	MDV	ELEC	1678.68445	0.002234758	58660.62986	0.0103533	8578.49571	0.01142
	MDV	PIH	1250.85709	0.00166521	52904.03132	0.0093373	5172.294058	0.006886
			161972.583		5665911.271		751170.7052	
	MH	GAS	2420.56984	7.121629885	22012.30271	0.6985681	242.1538069	0.712448
	MH	DSL	977.36061	2.875521464	9498.302477	0.3014319	97.73606104	0.287552
			3397.93045		31510.60519		339.8898679	
	MHDT	GAS	1414.55168	0.009216738	71600.35148	0.1399516	28302.34992	0.184409
	MHDT	DSL	10390.528	0.067701153	434043.5933	0.8483911	123938.9566	0.807544
	MHDT	ELEC	30.9160141	0.000201438	1660.353407	0.0032454	407.4535626	0.002655
	MHDT	NG	90.5944854	0.000590283	4303.5812	0.0084119	827.6228005	0.005393
			11926.5902		511607.8794		153476.3829	
	OBUS	GAS	443.146734	0.024493158	19894.31417	0.2414205	8866.47985	0.490059
	OBUS	DSL	893.137556	0.049364596	61949.05075	0.7517609	9141.625389	0.505267
	OBUS	ELEC	1.08748138	6.01062E-05	92.50104822	0.0011225	21.7583274	0.001203
	OBUS	NG	7.05736996	0.000390068	469.3876372	0.0056961	62.81059268	0.003472
			1344.42914		82405.25361		18092.67416	
	SBUS	GAS	172.694787	0.016022959	8584.865553	0.348885	690.7791473	0.064092
	SBUS	DSL	670.595844	0.062219191	15345.26177	0.6236244	9710.227827	0.900934
	SBUS	ELEC	2.06466629	0.000191564	64.35501341	0.0026154	23.64639413	0.002194
	SBUS	NG	24.3995047	0.002263834	612.0940704	0.0248752	353.3048277	0.03278
			869.754802		24606.57641		10777.9582	
	UBUS	GAS	46.0831322	0.021676301	4812.450683	0.0818022	184.3325287	0.086705
	UBUS	DSL	437.474468	0.205776552	48917.60551	0.8315035	1749.897872	0.823106
	UBUS	ELEC	5.34756545	0.031392036	235.0625504	0.0483152	21.3902618	0.125568
	UBUS	NG	42.5869588	0.020031792	4865.187143	0.0826987	170.347835	0.080127
			531.492124		58830.30589		2125.968497	

Attachment 4: Project Construction Emissions and Health Risk Calculations

Construction Health Risk Assessment and Calculations

Fairfield Inn, 1669 Monterey Road, San Jose, CA

Year	Unmitigated	DPM	Unmitigated	Unmitigated	Fug PM2.5	Unmitigated
	DPM	EMFAC2021	Emissions	Fug PM2.5	EMFAC2021	Emissions
2023-2024	0.1033	0.0008	0.1041	0.0391	0.0008	0.0399

Fairfield Inn, 1669 Monterey Road, San Jose, CA

DPM Emissions and Modeling Emission Rates - Unmitigated

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions			Modeled Area (m ²)	DPM Emission Rate (g/s/m ²)
				(lb/yr)	(lb/hr)	(g/s)		
2023-2024	Construction	0.1041	CON_DPM	208.1	0.06335	7.98E-03	7169	1.11E-06

* Includes 2024 (two months of construction)

Construction Hours
 hr/day = 9 (8am - 5pm)
 days/yr = 365
 hours/year = 3285

Fairfield Inn, 1669 Monterey Road, San Jose, CA

PM2.5 Fugitive Dust Emissions for Modeling - Unmitigated

Construction Year	Activity	Area Source	Area (ton/year)	PM2.5 Emissions			Modeled Area (m ²)	PM2.5 Emission Rate g/s/m ²
				(lb/yr)	(lb/hr)	(g/s)		
2023-2024	Construction	CON_FUG	0.0399	79.7	0.02426	3.06E-03	7,169	4.26E-07

* Includes 2024 (two months of construction)

Construction Hours
 hr/day = 9 (8am - 5pm)
 days/yr = 365
 hours/year = 3285

Fairfield Inn, 1669 Monterey Road, San Jose, CA - Construction Health Impact Summary

Maximum Impacts at MEI Residential Location - Without Mitigation

Emissions Year	Maximum Concentrations		Cancer Risk (per million)		Hazard Index (-)	Maximum Annual PM2.5 Concentration (µg/m ³)
	Exhaust PM10/DPM (µg/m ³)	Fugitive PM2.5 (µg/m ³)	Infant/Child	Adult		
	2023-2024*	0.0394	0.0193	7.00	0.11	0.01

* Includes 2024 (two months of construction)

**Fairfield Inn, 1669 Monterey Road, San Jose, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 1.5 meter receptor height (1st Floor Level)**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information		Age Sensitivity Factor	Infant/Child Cancer Risk (per million)	Adult - Exposure Information		Adult Cancer Risk (per million)	Maximum				
			DPM Conc (ug/m3)				Modeled	Age Sensitivity Factor		DPM Conc (ug/m3)	Sensitivity Factor	Hazard Index	Fugitive PM2.5	Total PM2.5
			Year	Annual										
0	0.25	-0.25 - 0*	2023-2024**	0.0394	10	0.54	2023-2024**	0.0394	-	-	-	-	-	-
1	1	0 - 1	2023-2024**	0.0394	10	6.47	2023-2024**	0.0394	1	0.11	0.01	0.02	0.06	
2	1	1 - 2		0.0000	10	0.00		0.0000	1	0.00				
3	1	2 - 3		0.0000	3	0.00		0.0000	1	0.00				
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00				
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00				
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00				
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00				
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00				
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00				
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00				
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00				
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00				
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00				
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00				
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00				
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00				
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00				
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00				
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00				
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00				
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00				
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00				
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00				
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00				
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00				
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00				
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00				
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00				
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00				
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00				
Total Increased Cancer Risk						7.00				0.11				

* Third trimester of pregnancy

** Includes 2024 (two months of construction)

Attachment 5: Community Risk Modeling Information and Calculations

CT-EMFAC2017 Emissions Factors for Santa Clara County 2023

File Name: Fairfield Inn - Santa Clara (SF) - 2023 - Annual.EF
 CT-EMFAC2017 Version: 1.0.2.27401
 Run Date: 7/25/2022 14:23
 Area: Santa Clara (SF)
 Analysis Year: 2023
 Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.015	0.487	0.513
Truck 2	0.02	0.938	0.047
Non-Truck	0.965	0.014	0.958

Road Type: Major/Collector
 Silt Loading Factor: CARB 0.032 g/m2
 Precipitation Correction: CARB P = 64 days N = 365 days

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph
PM2.5	0.009229	0.005981	0.004054	0.002896	0.002194	0.001765	0.001511	0.001375
TOG	0.195764	0.127928	0.086105	0.061055	0.046181	0.036838	0.030861	0.027137
Diesel PM	0.000904	0.000732	0.000563	0.000446	0.000382	0.000353	0.00035	0.00037

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.35761

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002108

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.016808

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.014855

=====**END**=====

Monterey Road Traffic Emissions and Health Risk Calculations

Analysis Year = **2023**

Vehicle Type	2022 Caltrans Vehicles (veh/day)	2023 Vehicles (veh/day)
Total	30,470	30,775

Increase From 2022 1.01
Vehicles/Direction **15,387**
 Avg Vehicles/Hour/Direction 641

Traffic Data Year = **2022**

<i>Project Traffic Data - Background Plus Project ADT</i>	ADT Total	Total Truck
Monterey Rd & San Jose Ave	30,470	1,069

Percent of Total Vehicles 3.51%
 Traffic Increase per Year (%) = 1.00%

Fairfield Inn, 1669 Monterey Road, San Jose, CA - Offsite Residential Roadway Modeling

Cumulative Operation - Monterey Road

DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions

Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
DPM_NB_MON	Monterey Rd Northbound	NB	3	643.2	0.40	17.0	55.7	3.4	30	15,387
DPM_SB_MON	Monterey Rd Southbound	SB	3	644.4	0.40	17.0	55.7	3.4	30	15,387
									Total	30,775

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.00035			

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and DPM Emissions - DPM_NB_MON

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.91%	602	2.36E-05	9	6.50%	1000	3.92E-05	17	5.58%	858	3.36E-05
2	2.59%	398	1.56E-05	10	7.36%	1133	4.44E-05	18	3.28%	504	1.98E-05
3	2.88%	442	1.73E-05	11	6.33%	973	3.81E-05	19	2.36%	363	1.42E-05
4	3.34%	513	2.01E-05	12	6.84%	1053	4.13E-05	20	0.92%	142	5.55E-06
5	2.19%	336	1.32E-05	13	6.15%	947	3.71E-05	21	2.99%	460	1.80E-05
6	3.39%	522	2.05E-05	14	6.15%	947	3.71E-05	22	4.14%	637	2.50E-05
7	5.98%	920	3.61E-05	15	5.23%	805	3.16E-05	23	2.47%	380	1.49E-05
8	4.66%	717	2.81E-05	16	3.91%	602	2.36E-05	24	0.86%	133	5.20E-06
									Total	15,387	

2023 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_SB_MON

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.91%	602	2.36E-05	9	6.50%	1000	3.93E-05	17	5.58%	858	3.37E-05
2	2.59%	398	1.56E-05	10	7.36%	1133	4.45E-05	18	3.28%	504	1.98E-05
3	2.88%	442	1.74E-05	11	6.33%	973	3.82E-05	19	2.36%	363	1.42E-05
4	3.34%	513	2.01E-05	12	6.84%	1053	4.13E-05	20	0.92%	142	5.56E-06
5	2.19%	336	1.32E-05	13	6.15%	947	3.72E-05	21	2.99%	460	1.81E-05
6	3.39%	522	2.05E-05	14	6.15%	947	3.72E-05	22	4.14%	637	2.50E-05
7	5.98%	920	3.61E-05	15	5.23%	805	3.16E-05	23	2.47%	380	1.49E-05
8	4.66%	717	2.81E-05	16	3.91%	602	2.36E-05	24	0.86%	133	5.21E-06
									Total	15,387	

Fairfield Inn, 1669 Monterey Road, San Jose, CA - Offsite Residential Roadway Modeling
 Cumulative Operation - Monterey Road
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
PM25_NB_MON	Monterey Rd Northbound	NB	3	643.2	0.40	17.0	56	1.3	30	15,387
PM25_SB_MON	Monterey Rd Southbound	SB	3	644.4	0.40	17.0	56	1.3	30	15,387
Total										30,775

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.001765			

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and PM2.5 Emissions - PM25_NB_MON

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	177	3.47E-05	9	7.11%	1094	2.14E-04	17	7.38%	1136	2.23E-04
2	0.42%	64	1.26E-05	10	4.39%	676	1.32E-04	18	8.17%	1257	2.46E-04
3	0.41%	63	1.23E-05	11	4.66%	718	1.41E-04	19	5.70%	877	1.72E-04
4	0.26%	40	7.93E-06	12	5.89%	906	1.78E-04	20	4.27%	658	1.29E-04
5	0.50%	77	1.51E-05	13	6.15%	947	1.85E-04	21	3.26%	501	9.83E-05
6	0.90%	139	2.73E-05	14	6.04%	929	1.82E-04	22	3.30%	508	9.95E-05
7	3.79%	584	1.14E-04	15	7.01%	1079	2.11E-04	23	2.46%	378	7.42E-05
8	7.76%	1194	2.34E-04	16	7.14%	1098	2.15E-04	24	1.86%	287	5.62E-05
Total										15,387	

2023 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_SB_MON

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	177	3.48E-05	9	7.11%	1094	2.15E-04	17	7.38%	1136	2.23E-04
2	0.42%	64	1.26E-05	10	4.39%	676	1.33E-04	18	8.17%	1257	2.47E-04
3	0.41%	63	1.23E-05	11	4.66%	718	1.41E-04	19	5.70%	877	1.72E-04
4	0.26%	40	7.95E-06	12	5.89%	906	1.78E-04	20	4.27%	658	1.29E-04
5	0.50%	77	1.51E-05	13	6.15%	947	1.86E-04	21	3.26%	501	9.84E-05
6	0.90%	139	2.73E-05	14	6.04%	929	1.82E-04	22	3.30%	508	9.96E-05
7	3.79%	584	1.15E-04	15	7.01%	1079	2.12E-04	23	2.46%	378	7.43E-05
8	7.76%	1194	2.34E-04	16	7.14%	1098	2.16E-04	24	1.86%	287	5.63E-05
Total										15,387	

Fairfield Inn, 1669 Monterey Road, San Jose, CA - Offsite Residential Roadway Modeling
 Cumulative Operation - Monterey Road
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEXH_NB_MON	Monterey Rd Northbound	NB	3	643.2	0.40	17.0	56	1.3	30	15,387
TEXH_SB_MON	Monterey Rd Southbound	SB	3	644.4	0.40	17.0	56	1.3	30	15,387
Total										30,775

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.03684			

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_NB_MON

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	177	7.25E-04	9	7.11%	1094	4.48E-03	17	7.38%	1136	4.65E-03
2	0.42%	64	2.63E-04	10	4.39%	676	2.76E-03	18	8.17%	1257	5.14E-03
3	0.41%	63	2.57E-04	11	4.66%	718	2.93E-03	19	5.70%	877	3.58E-03
4	0.26%	40	1.66E-04	12	5.89%	906	3.71E-03	20	4.27%	658	2.69E-03
5	0.50%	77	3.15E-04	13	6.15%	947	3.87E-03	21	3.26%	501	2.05E-03
6	0.90%	139	5.69E-04	14	6.04%	929	3.80E-03	22	3.30%	508	2.08E-03
7	3.79%	584	2.39E-03	15	7.01%	1079	4.41E-03	23	2.46%	378	1.55E-03
8	7.76%	1194	4.88E-03	16	7.14%	1098	4.49E-03	24	1.86%	287	1.17E-03
Total										15,387	

2023 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_SB_MON

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	177	7.26E-04	9	7.11%	1094	4.48E-03	17	7.38%	1136	4.66E-03
2	0.42%	64	2.63E-04	10	4.39%	676	2.77E-03	18	8.17%	1257	5.15E-03
3	0.41%	63	2.57E-04	11	4.66%	718	2.94E-03	19	5.70%	877	3.59E-03
4	0.26%	40	1.66E-04	12	5.89%	906	3.71E-03	20	4.27%	658	2.69E-03
5	0.50%	77	3.16E-04	13	6.15%	947	3.88E-03	21	3.26%	501	2.05E-03
6	0.90%	139	5.70E-04	14	6.04%	929	3.81E-03	22	3.30%	508	2.08E-03
7	3.79%	584	2.39E-03	15	7.01%	1079	4.42E-03	23	2.46%	378	1.55E-03
8	7.76%	1194	4.89E-03	16	7.14%	1098	4.50E-03	24	1.86%	287	1.18E-03
Total										15,387	

Fairfield Inn, 1669 Monterey Road, San Jose, CA - Offsite Residential Roadway Modeling
 Cumulative Operation - Monterey Road
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
TEVAP_NB_MON	Monterey Rd Northbound	NB	3	643.2	0.40	17.0	56	1.3	30	15,387
TEVAP_SB_MON	Monterey Rd Southbound	SB	3	644.4	0.40	17.0	56	1.3	30	15,387
Total										30,775

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle per Hour (g/hour)	1.35761			
Emissions per Vehicle per Mile (g/VMT)	0.04525			

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_NB_MON

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	177	8.90E-04	9	7.11%	1094	5.50E-03	17	7.38%	1136	5.71E-03
2	0.42%	64	3.23E-04	10	4.39%	676	3.40E-03	18	8.17%	1257	6.32E-03
3	0.41%	63	3.15E-04	11	4.66%	718	3.61E-03	19	5.70%	877	4.40E-03
4	0.26%	40	2.03E-04	12	5.89%	906	4.55E-03	20	4.27%	658	3.30E-03
5	0.50%	77	3.87E-04	13	6.15%	947	4.76E-03	21	3.26%	501	2.52E-03
6	0.90%	139	6.99E-04	14	6.04%	929	4.67E-03	22	3.30%	508	2.55E-03
7	3.79%	584	2.93E-03	15	7.01%	1079	5.42E-03	23	2.46%	378	1.90E-03
8	7.76%	1194	6.00E-03	16	7.14%	1098	5.52E-03	24	1.86%	287	1.44E-03
Total										15,387	

2023 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_SB_MON

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	177	8.92E-04	9	7.11%	1094	5.51E-03	17	7.38%	1136	5.72E-03
2	0.42%	64	3.23E-04	10	4.39%	676	3.40E-03	18	8.17%	1257	6.33E-03
3	0.41%	63	3.16E-04	11	4.66%	718	3.61E-03	19	5.70%	877	4.41E-03
4	0.26%	40	2.04E-04	12	5.89%	906	4.56E-03	20	4.27%	658	3.31E-03
5	0.50%	77	3.88E-04	13	6.15%	947	4.76E-03	21	3.26%	501	2.52E-03
6	0.90%	139	7.00E-04	14	6.04%	929	4.68E-03	22	3.30%	508	2.55E-03
7	3.79%	584	2.94E-03	15	7.01%	1079	5.43E-03	23	2.46%	378	1.90E-03
8	7.76%	1194	6.01E-03	16	7.14%	1098	5.53E-03	24	1.86%	287	1.44E-03
Total										15,387	

Fairfield Inn, 1669 Monterey Road, San Jose, CA - Offsite Residential Roadway Modeling
 Cumulative Operation - Monterey Road
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day
FUG_NB_MON	Monterey Rd Northbound	NB	3	643.2	0.40	17.0	56	1.3	30	15,387
FUG_SB_MON	Monterey Rd Southbound	SB	3	644.4	0.40	17.0	56	1.3	30	15,387
									Total	30,775

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00211			
Brake Wear - Emissions per Vehicle (g/VMT)	0.01681			
Road Dust - Emissions per Vehicle (g/VMT)	0.01486			
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.03377			

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_NB_MON

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	177	6.64E-04	9	7.11%	1094	4.10E-03	17	7.38%	1136	4.26E-03
2	0.42%	64	2.41E-04	10	4.39%	676	2.53E-03	18	8.17%	1257	4.71E-03
3	0.41%	63	2.35E-04	11	4.66%	718	2.69E-03	19	5.70%	877	3.29E-03
4	0.26%	40	1.52E-04	12	5.89%	906	3.40E-03	20	4.27%	658	2.47E-03
5	0.50%	77	2.89E-04	13	6.15%	947	3.55E-03	21	3.26%	501	1.88E-03
6	0.90%	139	5.22E-04	14	6.04%	929	3.48E-03	22	3.30%	508	1.90E-03
7	3.79%	584	2.19E-03	15	7.01%	1079	4.05E-03	23	2.46%	378	1.42E-03
8	7.76%	1194	4.48E-03	16	7.14%	1098	4.12E-03	24	1.86%	287	1.08E-03
Total										15,387	

2023 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_SB_MON

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	177	6.66E-04	9	7.11%	1094	4.11E-03	17	7.38%	1136	4.27E-03
2	0.42%	64	2.41E-04	10	4.39%	676	2.54E-03	18	8.17%	1257	4.72E-03
3	0.41%	63	2.36E-04	11	4.66%	718	2.70E-03	19	5.70%	877	3.29E-03
4	0.26%	40	1.52E-04	12	5.89%	906	3.40E-03	20	4.27%	658	2.47E-03
5	0.50%	77	2.89E-04	13	6.15%	947	3.56E-03	21	3.26%	501	1.88E-03
6	0.90%	139	5.23E-04	14	6.04%	929	3.49E-03	22	3.30%	508	1.91E-03
7	3.79%	584	2.19E-03	15	7.01%	1079	4.05E-03	23	2.46%	378	1.42E-03
8	7.76%	1194	4.49E-03	16	7.14%	1098	4.12E-03	24	1.86%	287	1.08E-03
Total										15,387	

**Fairfield Inn, 1669 Monterey Road, San Jose, CA - Monterey Road Traffic - TACs & PM2.5
 AERMOD Risk Modeling Parameters and Maximum Concentrations
 at Construction MEI Receptor, 1.5m receptor height**

Emission Year 2023
Receptor Information MEI receptor
 Number of Receptors 1
 Receptor Height 1.5 meters
 Receptor Distances At MEI location

Meteorological Conditions
 BAQMD San Jose Airport Met Data 2013-2017
 Land Use Classification Urban
 Wind Speed Variable
 Wind Direction Variable

Construction MEI Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2013-2017	0.0003	0.0183	0.0224

Construction MEI PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013-2017	0.0176	0.0167	0.0009

**Fairfield Inn, 1669 Monterey Road, San Jose, CA - Monterey Road Cancer Risk & PM2.5
Impacts at Construction MEI - 1.5 meter receptor height
30 Year Residential Exposure**

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

Age → Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
1	1	0 - 1	2023	10	0.0003	0.0183	0.0224	0.041	0.017	0.0012	0.06
2	1	1 - 2	2024	10	0.0003	0.0183	0.0224	0.041	0.017	0.0012	0.06
3	1	2 - 3	2025	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
4	1	3 - 4	2026	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
5	1	4 - 5	2027	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
6	1	5 - 6	2028	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
7	1	6 - 7	2029	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
8	1	7 - 8	2030	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
9	1	8 - 9	2031	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
10	1	9 - 10	2032	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
11	1	10 - 11	2033	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
12	1	11 - 12	2034	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
13	1	12 - 13	2035	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
14	1	13 - 14	2036	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
15	1	14 - 15	2037	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
16	1	15 - 16	2038	3	0.0003	0.0183	0.0224	0.006	0.003	0.0002	0.01
17	1	16 - 17	2039	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
18	1	17 - 18	2040	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
19	1	18 - 19	2041	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
20	1	19 - 20	2042	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
21	1	20 - 21	2043	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
22	1	21 - 22	2044	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
23	1	22 - 23	2045	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
24	1	23 - 24	2046	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
25	1	24 - 25	2047	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
26	1	25 - 26	2048	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
27	1	26 - 27	2049	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
28	1	27 - 28	2050	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
29	1	28 - 29	2051	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
30	1	29 - 30	2052	1	0.0003	0.0183	0.0224	0.001	0.000	0.0000	0.00
Total Increased Cancer Risk								0.19	0.078	0.006	0.27

* Third trimester of pregnancy

Maximum
 Hazard Index 0.0001
 Fugitive PM2.5 0.02
 Total PM2.5 0.02



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Risk & Hazard Stationary Source Inquiry Form

This form is required when users request stationary source data from BAAQMD

This form is to be used with the BAAQMD's Google Earth stationary source screening tables.

[Click here for guidance on conducting risk & hazard screening, including roadways & freeways, refer to the District's Risk & Hazard Analysis flow chart.](#)

[Click here for District's Recommended Methods for Screening and Modeling Local Risks and Hazards document.](#)

Table A: Requester Contact Information

Date of Request	3/14/2022
Contact Name	Casey Divine
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x103
Email	cdivine@illingworthrodkin.com
Project Name	Fairfield Inn
Address	1669 Monterey Rd
City	San Jose
County	Santa Clara
Type (residential, commercial, mixed use, industrial, etc.)	Hotel
Project Size (# of units or building square feet)	120 rooms
Comments:	

For Air District assistance, the following steps must be completed:

1. Complete all the contact and project information requested in **Table A**. Incomplete forms will not be processed. Please include a project site map.
2. Download and install the free program Google Earth, <http://www.google.com/earth/download/ge/>, and then download the county specific Google Earth stationary source application files from the District's website, <http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx>. The small points on the map represent stationary sources permitted by the District (Map A on right). These permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc. Click on a point to view the source's Information Table, including the name, location, and preliminary estimated cancer risk, hazard index, and PM2.5 concentration.
3. Find the project site in Google Earth by inputting the site's address in the Google Earth search box.
4. Identify stationary sources within at least a 1000ft radius of project site. Verify that the location of the source on the map matches with the source's address in the Information Table, by using the Google Earth address search box to confirm the source's address location. Please report any mapping errors to the District.
5. List the stationary source information in **Table B** section only.
6. Note that a small percentage of the stationary sources have Health Risk Screening Assessment (HRSA) data INSTEAD of screening level data. These sources will be noted by an asterisk next to the Plant Name (Map B on right). If HRSA values are presented, these values have already been modeled and cannot be adjusted further.
7. Email this completed form to District staff. District staff will provide the most recent risk, hazard, and PM2.5 data that are available for the source(s). If this information or data are not available, source emissions data will be provided. Staff will respond to inquiries within three weeks.

Note that a public records request received for the same stationary source information will cancel the processing of your SSIF request.

Submit forms, maps, and questions to Matthew Hanson at 415-749-8733, or mhanson@baaqmd.gov

Table B: Google Earth data

Construction MEI

Distance from Receptor (feet) or MEI ¹	Plant No.	Facility Name	Address	Cancer Risk ²	Hazard Risk ²	PM _{2.5} ²	Source No. ³	Type of Source ⁴	Fuel Code ⁵	Status/Comments	Construction MEI			
											Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM _{2.5}
535	3007	R C Refinishing	1617 Pomona Avenue	0.002	0.00002	0.005		Overn, (2) Spray Booths		2020 Dataset	0.33	0.001	0.00001	0.002
460	11952	Tan Auto Repair	175 San Jose Ave	-	0.0002	-		Auto Body Coating Operation		2020 Dataset	0.38	#VALUE!	0.0001	#VALUE!
920	14818	Freeman Finishing	1775 Monterey Road, #7	-	0.001	-		(2) Spray Booths		2020 Dataset	0.15	#VALUE!	0.0002	#VALUE!
+1000	20157	Valley Lapping, Inc	95 Phelan Avenue #2	-	0.01	-		(2) Solvent Cleaning Operations		2020 Dataset	0.13	#VALUE!	0.001	#VALUE!
940	21943	R&P Painting Company	210 San Jose Ave, Suite A	-	-	-		(1) Spray Booths		2020 Dataset	0.15	#VALUE!	#VALUE!	#VALUE!
+1000	21963	Hoas Auto Touch-Up Autobody	226 PHELAN AVE STE C	-	0.005	-		Auto Body Coating Operation		2020 Dataset	0.13	#VALUE!	0.001	#VALUE!
790	22212	Y2K Auto Body Repair	1571 Monterey Hwy	-	-	-		(1) Spray Booths		2020 Dataset	0.20	#VALUE!	#VALUE!	#VALUE!

Footnotes:

1. Maximally exposed individual
2. These Cancer Risk, Hazard Index, and PM2.5 columns represent the values in the Google Earth Plant Information Table.
3. Each plant may have multiple permits and sources.
4. Permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc.
5. Fuel codes: 98 = diesel, 189 = Natural Gas.
6. If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.
7. The date that the HRSA was completed.
8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
 - a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
 - b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less.
 - c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010. Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
 - d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should reflect the risk from 2023 onwards.
 - e. Gas stations can be adjusted using BAAQMD's Gas Station Distance Multiplier worksheet.
 - f. Unless otherwise noted, exempt sources are considered insignificant. See BAAQMD Reg 2 Rule 1 for a list of exempt sources.
 - g. This spray booth is considered to be insignificant.

Date last updated:
03/13/2018

Gasoline Dispensing Facility (GDF) Distance Multiplier Tool: This distance multiplier tool refines the screening values for cancer risk and chronic hazard index found in the District's Stationary Source Screening Analysis Tool for GDF's, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

Diesel Internal Combustion (IC) Engine Distance Multiplier Tool: This distance multiplier tool refines the screening values for cancer risk and PM_{2.5} concentrations found in the District's Stationary Source Screening Analysis Tool for permitted facilities which contain only diesel IC engines, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

Generic Distance Multiplier Tool: This distance multiplier tool refines the screening values to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

Gas Station				
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard
0	0.0	1.000		0.0000
5	16.4	1.000		0.0000
10	32.8	1.000		0.0000
15	49.2	1.000		0.0000
20	65.6	1.000		0.0000
25	82.0	0.728		0.0000
30	98.4	0.559		0.0000
35	114.8	0.445		0.0000
40	131.2	0.365		0.0000
45	147.6	0.305		0.0000
50	164.0	0.260		0.0000
55	180.4	0.225		0.0000
60	196.9	0.197		0.0000
65	213.3	0.174		0.0000
70	229.7	0.155		0.0000
75	246.1	0.139		0.0000
80	262.5	0.126		0.0000
85	278.9	0.114		0.0000
90	295.3	0.104		0.0000
95	311.7	0.096		0.0000
100	328.1	0.088		0.0000
105	344.5	0.082		0.0000
110	360.9	0.076		0.0000
115	377.3	0.071		0.0000
120	393.7	0.066		0.0000
125	410.1	0.062		0.0000
130	426.5	0.058		0.0000
135	442.9	0.055		0.0000
140	459.3	0.052		0.0000
145	475.7	0.049		0.0000
150	492.1	0.046		0.0000
155	508.5	0.044		0.0000
160	524.9	0.042		0.0000
165	541.3	0.040		0.0000
170	557.7	0.038		0.0000
175	574.1	0.036		0.0000
180	590.6	0.034		0.0000
185	607.0	0.033		0.0000
190	623.4	0.031		0.0000
195	639.8	0.030		0.0000
200	656.2	0.029		0.0000
205	672.6	0.028		0.0000
210	689.0	0.027		0.0000
215	705.4	0.026		0.0000
220	721.8	0.025		0.0000
225	738.2	0.024		0.0000
230	754.6	0.023		0.0000
235	771.0	0.022		0.0000
240	787.4	0.022		0.0000
245	803.8	0.021		0.0000
250	820.2	0.020		0.0000
255	836.6	0.020		0.0000
260	853.0	0.019		0.0000
265	869.4	0.018		0.0000
270	885.8	0.018		0.0000
275	902.2	0.017		0.0000
280	918.6	0.017		0.0000
285	935.0	0.016		0.0000
290	951.4	0.016		0.0000
295	967.8	0.015		0.0000
300	984.3	0.015		0.0000

Diesel Backup Generator						
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM2.5 Concentration	Adjusted PM2.5 Concentration
0	0.0	1.000		0		0
5	16.4	1.000		0		0
10	32.8	1.000		0		0
15	49.2	1.000		0		0
20	65.6	1.000		0		0
25	82.0	0.85		0		0
30	98.4	0.73		0		0
35	114.8	0.64		0		0
40	131.2	0.58		0		0
50	164.0	0.5		0		0
60	196.9	0.41		0		0
70	229.7	0.31		0		0
80	262.5	0.28		0		0
90	295.3	0.25		0		0
100	328.1	0.22		0		0
110	360.9	0.18		0		0
120	393.7	0.16		0		0
130	426.5	0.15		0		0
140	459.3	0.14		0		0
150	492.1	0.12		0		0
160	524.9	0.1		0		0
180	590.6	0.09		0		0
200	656.2	0.08		0		0
220	721.8	0.07		0		0
240	787.4	0.06		0		0
260	853.0	0.05		0		0
280	918.6	0.04		0		0

Generic Case		
Distance (meters)	Distance (feet)	Multiplier
0	0.0	1.000
5	16.4	1.000
10	32.8	0.883
15	49.2	0.855
20	65.6	0.827
25	82.0	0.801
30	98.4	0.775
35	114.8	0.750
40	131.2	0.726
45	147.6	0.702
50	164.0	0.679
55	180.4	0.658
60	196.9	0.636
65	213.3	0.616
70	229.7	0.596
75	246.1	0.577
80	262.5	0.558
85	278.9	0.540
90	295.3	0.523
95	311.7	0.506
100	328.1	0.489
105	344.5	0.474
110	360.9	0.458
115	377.3	0.444
120	393.7	0.429
125	410.1	0.415
130	426.5	0.402
135	442.9	0.389
140	459.3	0.376
145	475.7	0.364
150	492.1	0.353
155	508.5	0.341
160	524.9	0.330
165	541.3	0.319
170	557.7	0.309
175	574.1	0.299
180	590.6	0.290
185	607.0	0.280
190	623.4	0.271
195	639.8	0.262
200	656.2	0.254
205	672.6	0.246
210	689.0	0.238
215	705.4	0.230
220	721.8	0.223
225	738.2	0.216
230	754.6	0.209
235	771.0	0.202
240	787.4	0.195
245	803.8	0.189
250	820.2	0.183
255	836.6	0.177
260	853.0	0.171
265	869.4	0.166
270	885.8	0.160
275	902.2	0.155
280	918.6	0.150
285	935.0	0.145
290	951.4	0.141
295	967.8	0.136
300	984.3	0.132



Stationary Source Risk & Hazards Screening Report

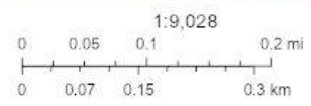
Area of Interest (AOI) Information

Area : 5,703,279.97 ft²

Feb 22 2022 13:29:52 Pacific Standard Time



- Permitted Facilities 2018
- CalEnviroScreen 4.0 (Top 30%)



City of San Jose, County of Santa Clara, Bureau of Land Management, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, METI/NASA, EPA, USDA

Summary

Name	Count	Area(ft ²)	Length(ft)
Permitted Facilities 2018	6	N/A	N/A

Permitted Facilities 2018

#	FACID	Name	Address	City	St
1	3007	R C Refinishing	1617 Pomona Avenue	San Jose	CA
2	11952	Tan Auto Repair	175 San Jose Ave	San Jose	CA
3	14818	Freeman Finishing	1775 Monterey Road, #7	San Jose	CA
4	20157	Valley Lapping, Inc	95 Phelan Avenue #2	San Jose	CA
5	21943	R&P Painting Company	210 San Jose Ave, Suite A	San Jose	CA
6	21963	Hoas Auto Touch-Up Autobody	226 PHELAN AVE STE C	SAN JOSE	CA

#	Zip	County	Cancer	Hazard	PM_25	Type	Count
1	95110	Santa Clara	0.000	0.000	0.000	Contact BAAQMD	1
2	95125	Santa Clara	0.000	0.000	0.000	Contact BAAQMD	1
3	95112	Santa Clara	0.000	0.000	0.000	Contact BAAQMD	1
4	95112	Santa Clara	0.000	0.010	0.000	Contact BAAQMD	1
5	95125	Santa Clara	0.000	0.000	0.000	Contact BAAQMD	1
6	95112	Santa Clara	0.000	0.000	0.000	Contact BAAQMD	1

Note: The estimated risk and hazard impacts from these sources would be expected to be substantially lower when site specific Health Risk Screening Assessments are conducted.

The screening level map is not recommended for evaluating sensitive land uses such as schools, senior centers, day cares, and health facilities.