

**APPENDIX A – AIR QUALITY, GREENHOUSE GAS, AND NOISE IMPACTS
STUDY**

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Subject: Air Quality, Greenhouse Gas, and Noise Study for a Storage Facility in the Sylmar Neighborhood of Los Angeles, CA

Dear Mr. Henry and Ms. Conley:

Yorke Engineering, LLC (Yorke) is pleased to provide this Air Quality (AQ), Greenhouse Gas (GHG), and Noise Letter Report. This AQ/GHG/Noise Letter Report includes California Emissions Estimator Model[®] (CalEEMod) emissions estimates, criteria pollutant analysis, localized significance level (LST) analysis, GHG analysis, and Noise analysis for the proposed storage facility development in the Sylmar Neighborhood of the City of Los Angeles (City), California. These evaluations will support the Applicant's submittal of the Los Angeles Department of City Planning Environmental Assessment Form (EAF) with a CEQA Categorical Exemption, Initial Study (IS), Negative Declaration (ND), or a Mitigated Negative Declaration (MND), as applicable.

PROJECT DESCRIPTION

Banner SoCal Developer is proposing to construct a new storage facility to be located at 12121 Foothill Boulevard in the Sylmar Neighborhood of the City of Los Angeles, CA 91342, which is within the South Coast Air Quality Management District (SCAQMD). The proposed project will comprise one building with 1,282 provided storage units. The project will have parking for 15 vehicles and 14 bicycles. The 87,000-square-foot project site is located on Foothill Blvd, bordering the Interstate 210 (I-210), and is roughly 3,900 feet (1,100 meters) southeast of Highway 118 (SR-118). To fulfill Los Angeles City Planning application requirements under the Transit Oriented Communities (TOC) Incentive Program, an air quality, GHG, and construction noise impact assessment is required.

ASSUMPTIONS

The following basic assumptions were used in developing the emission estimates for the proposed Project using the CalEEMod:

- Some project design features including size of the building features and parking area size were defined by the Applicant.
- CalEEMod default construction equipment, including hours used per data were applied to construction phases of the project.
- During site preparation and grading the project site will be watered three times daily.

- Low VOC paint will be used.
- The parking was assumed to be open without an elevator and is included in the CalEEMod modeling.
- The Project is expected to require up to approximately twelve months of planned work activities (i.e., from mobilization to substantial completion) comprising six construction phases (demolition, site preparation, grading, building construction, paving, and architectural coating).
- Approximately 3,700 square feet of old buildings will be removed during the demolition phase.

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AIR QUALITY AND GREENHOUSE GAS IMPACTS ANALYSES

Appendix G of the California Environmental Quality Act (CEQA) Guidelines contains an Environmental Checklist Form which consists of a series of questions that are intended to encourage a thoughtful assessment of impacts. In order to evaluate the questions in the Air Quality and Greenhouse Gas Emissions Sections of the checklist, quantitative significance criteria established by the local air quality agency, such as SCAQMD, may be relied upon to make significance determinations based on mass emissions of criteria pollutants and GHGs, as determined in this report.

Project Emissions Estimation

The construction and operation analyses were performed using CalEEMod version 2020.4.0, the official statewide land use computer model designed to provide a uniform platform for estimating potential criteria pollutant and GHG emissions associated with both construction and operations of land use projects under CEQA. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. The mobile source emission factors used in the model – published by the California Air Resources Board

(CARB) – include the Pavley standards and Low Carbon Fuel standards. The 2020 version of the model includes EMFAC off-model adjustment factors for gasoline light duty vehicles to account for the Safer Affordable Fuel-Efficient (SAFE) Vehicle Rule. The model also identifies project design features, regulatory measures, and mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from the selected measures. CalEEMod was developed by the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the SCAQMD, the Bay Area Air Quality Management District (BAAQMD), the San Joaquin Valley Air Pollution Control District (SJVAPCD), and other California air districts. Default land use data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) were provided by the various California air districts to account for local requirements and conditions. As the official assessment methodology for land use projects in California, CalEEMod is relied upon herein for construction and operational emissions quantification, which forms the basis for the impact analyses.

Based on information received from the Applicant, land use data used for CalEEMod input are presented in Table 1. The SCAQMD quantitative significance thresholds shown in Table 2 were used to evaluate project emissions impacts (SCAQMD 2019).

Table 1: Land Use Data for CalEEMod Input - 12121 Foothill Blvd						
Project Element	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage (footprint)	Square Feet (est.)
Building	Industrial	General Heavy Industry	137.05	1000 sq. ft.	1.05	137,052
Parking Lot & Loading	Parking	Parking Lot	25.71	1000 sq. ft.	0.59	25,710
Landscaping	Parking	Other Non-Asphalt Surfaces	15.90	1,000 sq. ft.	0.36	15,895
Project Site					2.00	178,657

Source: Applicant 2021, CalEEMod version 2020.4.0

Notes:

Electric utility is Los Angeles Department of Water and Power (LADWP)

Table 2: SCAQMD CEQA Thresholds of Significance		
Pollutant	Project Construction	Project Operation
ROG (VOC)	75 lbs/day	55 lbs/day
NO _x	100 lbs/day	55 lbs/day
CO	550 lbs/day	550 lbs/day
SO _x	150 lbs/day	150 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
24-hour PM _{2.5} Increment	10.4 µg/m ³	2.5 µg/m ³
24-hour PM ₁₀ Increment	10.4 µg/m ³	2.5 µg/m ³
Annual PM ₁₀ Increment	1.0 µg/m ³ annual average	
1-hour NO ₂ Increment	0.18 ppm (state)	
Annual NO ₂ Increment	0.03 ppm (state) & 0.0534 ppm (federal)	
1-hour SO ₂ Increment	0.25 ppm (state) & 0.075 ppm (federal – 99th percentile)	
24-hour SO ₂ Increment	0.04 ppm (state)	
24-hour Sulfate Increment	25 ug/m ³ (state)	
1-hour CO Increment	20 ppm (state) & 35 ppm (federal)	
8-hour CO Increment	9.0 ppm (state/federal)	
Toxic Air Contaminants (including carcinogens and non-carcinogens)	Maximum Incremental Cancer Risk ≥10 in 1 million	
	Cancer Burden >0.5 excess cancer cases (in areas ≥1 in 1 million)	
	Chronic & Acute Hazard Index ≥1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to Rule 402	
Greenhouse Gases	10,000 MT/yr CO ₂ e for industrial facilities	
	3,000 MT/yr CO ₂ e for land use projects (draft proposal)	

Source: SCAQMD 2019, 2008b

Criteria Pollutants from Project Construction

A project’s construction phase produces many types of emissions, generally PM₁₀ (including PM_{2.5}) in fugitive dust and diesel engine exhaust are the pollutants of greatest concern. Construction activities will include construction of 4 levels. Construction-related emissions can cause substantial increases in localized concentrations of PM₁₀, as well as affecting PM₁₀ compliance with ambient air quality standards on a regional basis. The use of diesel-powered construction equipment emits ozone precursors oxides of nitrogen (NO_x) and reactive organic gases (ROG), and diesel particulate matter (DPM); however, the use of diesel-powered equipment would be minimal. Use of architectural coatings and other materials associated with finishing buildings may also emit ROG and Toxic Air Contaminants (TACs). CEQA significance thresholds address the impacts of construction activity emissions on local and regional air quality. Thresholds are also provided for other potential impacts related to project construction, such as odors and TACs.

The SCAQMD’s approach to CEQA analyses of fugitive dust impacts is to require implementation of effective and comprehensive dust control measures rather than to require detailed quantification

of emissions. PM₁₀ emitted during construction can vary greatly depending on the level of activity, the specific operations taking place, the equipment being operated, local soils, weather conditions, and other factors, making quantification difficult. Despite this variability in emissions, experience has shown that there are several feasible control measures that can be reasonably implemented to significantly reduce fugitive dust emissions from construction. For larger projects, the SCAQMD has determined that compliance with an approved fugitive dust control plan comprising Best Management Practices (BMPs), primarily through frequent water application, constitutes sufficient preventive measures to reduce PM₁₀ impacts to a level considered less than significant.

Criteria Pollutants from Project Operation

The term “project operations” refers to the full range of activities that can or may generate criteria pollutant, GHG, and TAC emissions when the project is functioning in its intended use. For projects, such as office parks, shopping centers, apartment buildings, residential subdivisions, and other indirect sources, motor vehicles traveling to and from the project represents the primary source of air pollutant emissions. For industrial projects and some commercial projects, equipment operation and manufacturing processes, i.e., permitted stationary sources, can be of greatest concern from an emissions standpoint. CEQA significance thresholds address the impacts of operational emission sources on local and regional air quality. Thresholds are also provided for other potential impacts related to project operations, such as odors.

Results of Criteria Emissions Analyses

Table 3 shows unmitigated and mitigated criteria construction emissions and evaluates mitigated emissions against SCAQMD significance thresholds.

Table 4 shows unmitigated and mitigated criteria operational emissions and evaluates mitigated emissions against SCAQMD significance thresholds.

As shown in Tables 3 and 4, mass emissions of criteria pollutants from construction and operation are below applicable SCAQMD significance thresholds.

PROJECTED IMPACT: Less Than Significant (LTS)

MITIGATION: None required

Table 3: Daily Construction Emissions Summary and Significance Evaluation				
Criteria Pollutants	Unmitigated (lbs/day)	Mitigated (lbs/day)	Threshold (lbs/day)	Significance
ROG (VOC)	64.4	64.4	75	LTS
NO _x	20.2	20.2	100	LTS
CO	16.7	16.7	550	LTS
SO _x	0.04	0.04	150	LTS
Total PM ₁₀	8.1	3.7	150	LTS
Total PM _{2.5}	4.3	2.2	55	LTS

Sources: SCAQMD 2019, CalEEMod version 2020.4.0

Notes:

lbs/day are winter or summer maxima for planned land use

Total PM₁₀ / PM_{2.5} comprises fugitive dust plus engine exhaust

LTS - Less Than Significant

Table 4: Daily Operational Emissions Summary and Significance Evaluation				
Criteria Pollutants	Unmitigated (lbs/day)	Mitigated (lbs/day)	Threshold (lbs/day)	Significance
ROG (VOC)	3.5	3.5	55	LTS
NO _x	1.1	1.1	55	LTS
CO	4.7	4.7	550	LTS
SO _x	0.01	0.01	150	LTS
Total PM ₁₀	1.0	1.0	150	LTS
Total PM _{2.5}	0.3	0.3	55	LTS

Sources: SCQMD 2019, CalEEMod version 2020.4.0

Notes:

lbs/day are winter or summer maxima for planned land use

Total PM₁₀ / PM_{2.5} comprises fugitive dust plus engine exhaust

LTS - Less Than Significant

Localized Significance Threshold Analysis

The SCAQMD's Localized Significance Threshold (LST) methodology (2008a) was used to analyze the neighborhood scale impacts of NO_x, CO, PM₁₀, and PM_{2.5} associated with project-specific mass emissions. Introduced in 2003, the LST methodology was revised in 2008 to include the PM_{2.5} significance threshold methodology and update the LST mass rate lookup tables for the new 1-hour NO₂ standard.

For determining localized air quality impacts from small projects in a defined geographic source-receptor area (SRA), the LST methodology provides mass emission rate lookup tables for 1-acre, 2-acre, and 5-acre parcels by SRA. The tabulated LSTs represent the maximum mass emissions from a project that will not cause or contribute to an exceedance of state or national ambient air quality standards (CAAQS or NAAQS) for the above pollutants and were developed based on ambient concentrations of these pollutants for each SRA in the South Coast Air Basin. (SCAQMD 2008a)

For most land use projects, the highest daily emission rates occur during the site preparation and grading phases of construction; these maximum daily emissions are used in the LST analysis. Since land use operational emissions – mainly from associated traffic – are dispersed over a wide area, localized impacts from project operation are substantially lower than during project construction. However, an Operational LST analysis was also performed.

The land use category “General Heavy Industry” assumes that many workers and customers would commute to and from the location daily, which yields a higher trip generation rate than “General Light Industry”. Due to the few employees, and light customer traffic characteristic of a self-storage facility, the trip rates were lowered to match the expected traffic patterns, approximately 100 trips per day for a larger-size storage facility.

The proposed Project site is 2.00 acres in source-receptor area Zone 7 – East San Fernando Valley. The 2-acre screening lookup tables were used to evaluate NO_x, CO, PM₁₀, and PM_{2.5} impacts on nearby receptors. The nearest receptor is approximately 50 meters away, across Foothill Boulevard, from the site. Therefore, the impact evaluation was performed using the closest distance within SCAQMD LST tables of 50 meters for construction. (SCAQMD 2008a)

Results of Localized Significance Threshold Analysis

The LST results provided in Tables 5 and 6 show that on-site emissions from construction and operations would meet the LST passing criteria at the nearest receptors (50 meters). Thus, impacts would be less than significant.

PROJECTED IMPACT: Less Than Significant (LTS)

MITIGATION: None required

Table 5: Construction Localized Significance Threshold Evaluation				
Criteria Pollutants	Mitigated (lbs/day)	Threshold (lbs/day)	Percent of Threshold	Result
NO _x	20.2	111	18%	Pass
CO	16.7	1,068	2%	Pass
Total PM ₁₀	3.7	21	18%	Pass
Total PM _{2.5}	2.2	6	37%	Pass

Sources: SCAQMD 2008a, CalEEMod version 2020.4.0

Notes:

Source-receptor area Zone 7 - East San Fernando Valley

2-acre area, 50 meters to receptor

Table 6: Operations Localized Significance Threshold Evaluation				
Criteria Pollutants	Mitigated (lbs/day)	Threshold (lbs/day)	Percent of Threshold	Result
NO _x	1.1	111	1%	Pass
CO	4.7	1,068	0.4%	Pass
Total PM ₁₀	1.0	5	20%	Pass
Total PM _{2.5}	0.3	2	15%	Pass

Sources: SCAQMD 2008a, CalEEMod version 2020.4.0

Notes:

Source-receptor area Zone 7 - East San Fernando Valley

2-acre area, 50 meters to receptor

Greenhouse Gas Emissions from Construction and Operation

Greenhouse gases – primarily carbon dioxide (CO₂), methane (CH₄), and nitrous (N₂O) oxide, collectively reported as carbon dioxide equivalents (CO₂e) – are directly emitted from stationary source combustion of natural gas in equipment such as water heaters, boilers, process heaters, and furnaces. GHGs are also emitted from mobile sources such as on-road vehicles and off-road construction equipment burning fuels such as gasoline, diesel, biodiesel, propane, or natural gas (compressed or liquefied). Indirect GHG emissions result from electric power generated elsewhere (i.e., power plants) used to operate process equipment, lighting, and utilities at a facility. Also, included in GHG quantification is electric power used to pump the water supply (e.g., aqueducts, wells, pipelines) and disposal and decomposition of municipal waste in landfills. (CARB 2017)

California's Building Energy Efficiency Standards are updated on an approximately three-year cycle. The 2019 standards improved upon the 2016 standards for new construction of, and additions and alterations to, residential, commercial, and industrial buildings. The 2019 standards went into effect on January 1, 2020 (CEC 2019).

Since the Title 24 standards require energy conservation features in new construction (e.g., high-efficiency lighting, high-efficiency heating, ventilating, and air-conditioning (HVAC) systems, thermal insulation, double-glazed windows, water conserving plumbing fixtures, etc.), they indirectly regulate and reduce GHG emissions.

Using CalEEMod, direct onsite and offsite GHG emissions were estimated for construction and operation, and indirect offsite GHG emissions were estimated to account for electric power used by the proposed Project, water conveyance, and solid waste disposal.

Results of Greenhouse Gas Emissions Analyses

The SCAQMD officially adopted an industrial facility mass emissions threshold of 10,000 metric tons (MT) CO_{2e} per year (SCAQMD 2019) and has proposed a residential/commercial mass emissions threshold of 3,000 metric tons (MT) CO_{2e} per year. (SCAQMD 2008b)

Table 7 shows unmitigated and mitigated GHG emissions and evaluates mitigated emissions against SCAQMD significance thresholds. Operational measures incorporate typical code-required energy and water conservation features. Off-site traffic impacts are included in these emissions estimates, along with construction emissions amortized over 30 years.

PROJECTED IMPACT: Less Than Significant (LTS)

MITIGATION: None Required.

Table 7: Greenhouse Gas Emissions Summary and Significance Evaluation				
Greenhouse Gases	Unmitigated (MT/yr)	Mitigated (MT/yr)	Threshold (MT/yr)	Significance
CO ₂	933	879	—	—
CH ₄	3.1	2.2	—	—
N ₂ O	0.0	0.0	—	—
CO _{2e}	1,021	943	3,000	LTS

Sources: SCAQMD 2008b, CalEEMod version 2020.4.0

Notes:

Comprises annual operational emissions plus construction emissions amortized over 30 years

LTS - Less Than Significant

NOISE IMPACTS ANALYSES

Noise Analysis Methodology

The screening-level noise analysis for Project construction was completed based on methodology developed by the U.S. Department of Transportation Federal Highway Administration (DOT FHWA) at the John A. Volpe National Transportation Systems Center and other technical references consistent with CalEEMod outputs (equipment utilization). The DOT FHWA methodology uses actual noise measurement data collected during the Boston “Big Dig” project (1991-2006) as reference levels for a wide variety of construction equipment in common use, such as on the proposed Project. This noise analysis did not include field measurements of ambient noise in the vicinity of the Project site.

The FHWA noise model provides relatively conservative predictions because it does not account for site-specific geometry, dimensions of nearby structures, and local environmental conditions that can affect sound transmission, reflection, and attenuation. As a result, actual measured sound levels at receptors may vary somewhat from predictions, typically lower. Additionally, the impacts of noise upon receptors (persons) are subjective because of differences in individual sensitivities and perceptions.

Noise impacts were evaluated against community noise standards contained in the City or County General Plan or other state or federal agency as applicable to the vicinity of the Project site. For this Project, the City of Los Angeles Municipal Code (LAMC), Chapter XI, Noise Regulation, Sections 112.02, 112.03, 112.05, and 41.40 contain the applicable evaluation criteria. Screening-level Project-generated noise is evaluated in relation to established thresholds of significance. Additionally, the same methods are used to determine noise impacts on the nearest sensitive receptor.

During construction activities, the Project would generate noise due to operation of minimal off-road equipment, portable equipment, and vehicles at or near the Project site. No significant increase in traffic is expected due to this relatively small project. No strong sources of vibrations are planned to be used during construction activities.

Since the Project is near an urban street, the incremental effect of Project operation (possible slightly increased traffic) would not be quantifiable against existing traffic noise (background) in the Project vicinity (i.e., less than significant impact). Also, since no airport is closer than 2 miles from the Project site, evaluation of aircraft noise upon the Project is not required.

Environmental Setting

Noise Descriptors

Noise is typically described as any unwanted or objectionable sound. Sound is technically described in terms of the loudness (amplitude) and frequency (pitch) of the sound. The standard unit of measurement of the loudness of sound is the decibel (dB). Because the human ear is not equally sensitive to sound at all frequencies, a special frequency-dependent rating scale has been devised to relate noise to human sensitivity, the A-weighted decibel scale (dBA). Table 8 lists common sources of sound and their intensities in dBA.

Table 8: Typical Sound Level Characteristics		
Pressure (N/m ²)	Level (dB)	Sound Level Characteristic
2000	160	Rocket Launch
600	150	Military Jet Plane Takeoff
200	140	Threshold of Pain
60	130	Commercial Jet Plane Takeoff
20	120	Industrial Chipper or Punch Press
6	110	Loud Automobile Horn
2	100	Passing Diesel Truck – Curb Line
0.6	90	Factory - Heavy Manufacturing
0.2	80	Factory - Light Manufacturing
0.06	70	Open Floor Office - Cubicles
0.02	60	Conversational Speech
0.006	50	Private Office - Walled
0.002	40	Residence in Daytime
0.0006	30	Bedroom at Night
0.0002	20	Recording or Broadcasting Studio
0.00006	10	Threshold of Good Hearing - Adult
0.00002	0	Threshold of Excellent Hearing - Child

Sources: Broch 1971, Plog 1988

Notes:

Reference Level $P_0 = 0.00002 \text{ N/m}^2 = 0.0002 \text{ } \mu\text{bar}$

N/m^2 = Newtons per square meter (the Newton is the unit of force derived in the metric system); it is equal to the amount of net force required to accelerate one kilogram of mass at a rate of one meter per second squared ($1 \text{ kg} \cdot 1 \text{ m/s}^2$) in the direction of the applied force.

In most situations, a 3-dBA change in sound pressure is considered a “just-detectable” difference. A 5-dBA change (either louder or quieter) is readily noticeable, and 10-dBA change is a doubling (if louder) or halving (if quieter) of the subjective loudness. Sound from a small, localized source (a “point” source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates (drops off) at a rate of 6 dBA for each doubling of the distance.

The duration of noise and the time period at which it occurs are important factors in determining the impact of noise on sensitive receptors. A single number called the equivalent continuous noise level (L_{eq}) may be used to describe sound that is changing in level. It is also used to describe the acoustic range of the noise source being measured, which is accomplished through the maximum L_{eq} (L_{max}) and minimum L_{eq} (L_{min}) indicators.

In determining the daily measure of community noise, it is important to account for the difference in human response to daytime and nighttime noise. Noise is more disturbing at night than during the day, and noise indices have been developed to account for the varying duration of noise events over time, as well as community response to them. The Community Noise Equivalent Level (CNEL) adds a 5-dB penalty to the “nighttime” hourly noise levels (HNLs) (i.e., 7:00 p.m. to 10:00 p.m.) and the Day-Night Average Level (L_{dn}) adds a 10-dB penalty to the evening HNLs (Caltrans 2020, FTA 2006).

Vibration Descriptors

Vibration is a unique form of noise because its energy is carried through structures and the earth, whereas noise is carried through the air. Thus, vibration is generally felt rather than heard. Typically, ground borne vibration generated by manmade activities attenuates rapidly as distance from the source of the vibration increases. Actual human and structural response to different vibration levels is influenced by a combination of factors, including soil type, distance between the source and receptor, duration, and the number of perceived events.

While not a direct health hazard, the energy transmitted through the ground as vibration may result in structural damage, which may be costly to repair and dangerous in the event of structural failure. To assess the potential for structural damage associated with vibration, the vibratory ground motion in the vicinity of the affected structure is measured in terms of point peak velocity/peak particle velocity (PPV) in the vertical and horizontal directions (vector sum). A freight train passing at 100 feet may cause PPVs of 0.1 inch per second, while a strong earthquake may produce PPVs in the range of 10 inches per second. Minor cosmetic damage to buildings may begin in the range of 0.5 inch per second (Caltrans 2020, FTA 2006).

Existing Noise Environment

The Project site is in the Sylmar Neighborhood of the City of Los Angeles, Los Angeles County, in a Manufacturing area, but bordering a characteristically urban and densely populated area subject to noise from local traffic on public streets (Foothill Blvd), regional traffic on the Interstate (I-210), buses, trains, construction, and small power equipment (e.g., lawn mowers, edgers, etc.). The FHWA noise model puts the expected daytime ambient background noise from known sources at about 68 dBA at the nearest sensitive receptor to the proposed Project. This model is based on traffic from Foothill Blvd, Interstate 210, and a general 40 dBA urban background noise.

Sensitive Receptors

Some land uses are generally regarded as being more sensitive to noise than others due to the types of population groups or activities involved. Sensitive population groups include children and the elderly. The City of Los Angeles Noise Element also includes residential areas as noise-sensitive land uses. Other sensitive land uses generally include hospitals, schools, childcare facilities, senior facilities, libraries, churches, and parks.

The nearest school to the Project site is the Hillery T. Broadous Elementary School approximately 1,600 feet (500 meters) northwest of the site. Interceding building, and other multi-story buildings, would substantially shield all the schools from construction noise. The nearest residential receptors run southwest to northwest of the site, approximately 200 feet (60 meters) from the central construction zone; and, for consistency with LST, a source-receptor distance of 60 meters (200 feet) was used. All construction activities would be short-term and temporary. All construction work is planned to be conducted during daylight hours; no nighttime work is planned to be performed. Upon completion of construction, construction generated noise would permanently cease. Since the proposed project is located is expected to have minimal daily traffic, no significant additional long-term traffic is expected, and therefore no additional Project-related noise is expected over the long term.

Regulatory Setting

California

The State of California does not promulgate statewide standards for environmental noise but requires each city and county to include a noise element in its general plan [California Government Code Section 65302(f)]. In addition, Title 4 of the CCR has guidelines for evaluating the compatibility of various land uses as a function of community noise exposure. In general, the guidelines require that community noise standards:

- Protect residents from the harmful and annoying effects of exposure to excessive noise;
- Prevent incompatible land uses from encroaching upon existing or programmed land uses likely to create significant noise impacts; and
- Encourage the application of state-of-the-art land use planning methodologies in the area of managing and minimizing potential noise conflicts.

Construction vibration is regulated at the state level in accordance with standards established by the *Transportation and Construction-Induced Vibration Guidance Manual* issued by Caltrans in 2004. Continuous sources include the use of vibratory compaction equipment and other construction equipment that creates vibration other than in single events. Transient sources create a single isolated vibration event, such as blasting. Thresholds for continuous sources are 0.5 and 0.1 inch per second PPV for structural damage and annoyance, respectively. Thresholds for transient sources are 1.0 and 0.9 PPV for structural damage and annoyance, respectively (Caltrans 2020).

City of Los Angeles Municipal Code – Chapter XI, Noise Regulation

For this Project, the City of Los Angeles Municipal Code (LAMC), Chapter XI, Noise Regulation, Sections 112.02, 112.03, 112.05, and 41.40 contain the applicable evaluation criteria.

Operational on-site stationary sources of mechanical noise are required to comply with the LAMC Section 112.02, which prohibits noise from air conditioning, refrigeration, heating, pumping, and filtering equipment from exceeding the ambient noise level on the premises of other occupied properties, e.g., nearby residential buildings, by more than 5 dBA. Modern roof-mounted mechanical equipment is designed to meet this standard.

LAMC Section 112.03 references Section 41.40 which regulates noise from construction activities. Outdoor construction activities that generate noise are prohibited between the nighttime hours of 9:00 pm and 7:00 am Monday through Friday, and between 6:00 pm and 8:00 am on Saturdays and national holidays. Construction activities are prohibited on Sundays. The construction activities associated with the proposed Project would comply with these LAMC requirements.

Per Section 112.05, construction noise impacts would be significant if noise from powered equipment or powered hand tools used for construction within 500 feet (150 meters) of a residential zone exceeds 75 A-weighted decibels (dBA) at a distance of 50 feet (15 meters) from the noise source between the hours of 7:00 am and 10:00 pm. However, this noise limitation does not apply where compliance is technically infeasible. Technically infeasible means that the 75 dBA limitation cannot be complied with despite the use of mufflers, shields, sound barriers and/or any other noise reduction device or techniques during the operation of the equipment. However, the

burden of proof of technical infeasibility is placed upon the person or persons generating the noise, i.e., the contractor and owner or owner's agent.

Results of Screening Noise Analysis

The proposed Project can be characterized as development of a new storage facility with grade-level parking. Most noise would occur during the demolition, grading, site preparation, building construction, and paving when heavy equipment would be operating.

During each of the six construction phases there would be a different mix of equipment operating and cumulative noise levels would vary based on the amount of equipment in operation and the location of each activity at the Project site. In general, use of off-road equipment and portable equipment would generate noise due to engine mechanicals, engine exhaust, driveline mechanicals, shaft-driven devices and accessories, hydraulics operation, ground friction and displacement, and gravity drops (dumping, unloading).

Since no intense percussive actions (e.g., hard rock-breaking, large pile-driving) are planned to occur during the site work, no strong groundborne vibrations are expected to be generated that could affect nearby structures or be noticeable to their occupants.

Types of equipment (FHWA 2006) to be used during the Project and noise-emitting characteristics (i.e., usage factors, reference dBA, and percussive source) are shown in Table 9 consistent with CalEEMod outputs (Attachment 1).

The Project is expected to require up to approximately 6 months of planned work activities (i.e., from mobilization to substantial completion) comprising six construction phases:

- 1) Demolition;
- 2) Site Preparation;
- 3) Grading;
- 4) Building construction;
- 5) Paving; and
- 6) Architectural coating.

Deviations from this schedule would not affect the noise analysis because noise does not persist or accumulate in the environment.

Table 9: FHWA Noise Reference Levels and Usage Factors							
CalEEMod Construction Detail			FHWA Equipment Type	Ref.	Usage Factor	Ref. Level	Percussive Source
Phase Name	Equipment Description	Qty.			percent	dBA	Yes/No
Demolition (1)	Concrete/Industrial Saws	1	Concrete Saw	1	20%	90	No
	Rubber Tired Dozers	1	Tractor (rubber tire)	1	40%	84	No
	Tractors/Loaders/Backhoes	3	Backhoe (with loader)	1	40%	80	No
Site Preparation (2)	Graders	1	Grader	1	40%	85	No
	Rubber Tired Dozers	1	Tractor (rubber tire)	1	40%	84	No
	Tractors/Loaders/Backhoes	1	Backhoe (with loader)	1	40%	80	No
Grading (3)	Rubber Tired Dozers	1	Tractor (rubber tire)	1	40%	84	No
	Tractors/Loaders/Backhoes	2	Backhoe (with loader)	1	40%	80	No
	Graders	1	Grader	1	40%	85	No
Building Construction (4)	Tractors/Loaders/Backhoes	1	Backhoe (with loader)	1	40%	80	No
	Cranes	1	Crane	1	16%	85	No
	Forklifts	1	Forklift	1	40%	80	No
	Welders	3	Welding Machine (arc welding)	1	50%	70	No
Paving (5)	Cement and Mortar Mixers	1	Concrete Mixer Truck	1	40%	85	No
	Tractors/Loaders/Backhoes	1	Backhoe (with loader)	1	40%	80	No
	Pavers	2	Paver (asphalt)	1	50%	85	No
	Roller	1	Roller	1	20%	85	No
Architectural Coating (6)	Air Compressors	1	Compressor (air)	1	40%	80	No

Source: CalEEMod version 2020.4.0, FHWA 2006

Table 10 shows a comparison of: screening-level estimated daytime exterior noise impacts for peak construction activities at designated receptors, and the CEQA thresholds outlined in LAMC Chapter XI, using FHWA attenuation algorithms. If the threshold is not exceeded, then this project should be considered acceptable.

Table 10: Estimated Peak Activity Daytime Noise Impacts - Residential Receptors (mitigated)^{c, d}				
Construction Phases	Normal Acceptance Criteria			
	Modeled Noise Level (Leq dBA)^a	CalEEMod Duration (days)	Significance Threshold (CNEL dBA)^b	Exceeds Threshold (Yes/No)?
Background	68.4	-	-	No
Demolition	71.1	20	75	No
Site Preparation	70.3	2	75	No
Grading	70.5	4	75	No
Building Construction	70.1	200	75	No
Paving	71.7	10	75	No
Architectural Coating	68.7	20	75	No
Long-Term Impact	68.4	-	-	No

Sources: CalEEMod version 2020.4.0, FHWA 2006, Broch 1971, Plog 1988, LAMC 112.05

Notes:

^a Cumulative impacts include existing street traffic and ambient background noise sources

^b LAMC 112.05

^c Residential receptor is 50 meters (164 feet) southwest of the main construction zone

^d BMP comprises noise barriers on site perimeter (see Discussion)

Discussion

Construction Noise – LAMC Sections 112.03 and 112.05

Construction noise impacts would be significant if, as defined by Los Angeles Municipal Code (LAMC) Section 112.05, noise from powered equipment or powered hand tools used for construction within 500 feet (150 meters) of a residential zone exceeds 75 A-weighted decibels (dBA) at a distance of 50 feet (15 meters) from the noise source between the hours of 7:00 am and 10:00 pm. However, this noise limitation does not apply where compliance is technically infeasible. Technically infeasible means that the 75 dBA limitation cannot be complied with despite the use of mufflers, shields, sound barriers and/or any other noise reduction device or techniques during the operation of the equipment. However, the burden of proof of technical infeasibility is placed upon the person or persons generating the noise, i.e., the contractor and owner or owner’s agent.

LAMC Section 112.03 references Section 41.40 which regulates noise from construction activities. Outdoor construction activities that generate noise are prohibited between the nighttime hours of 9:00 pm and 7:00 am Monday through Friday, and between 6:00 pm and 8:00 am on Saturdays and national holidays. Construction activities are prohibited on Sundays. The construction activities associated with the proposed Project would comply with these LAMC requirements.

Although the estimated construction-related exterior noise levels associated with the proposed Project are modeled to normally be below the 75 dBA threshold, there may be times when the construction activities could intermittently and marginally exceed the 75 dBA threshold at 50 feet from the noise source. To minimize impacts, the Project will implement technically feasible BMPs in compliance with the standards set forth in LAMC Section 112.05. Specifically, the use of

deflectors/barriers such as plywood construction fencing (½-inch thickness), flexible sound-absorbing curtains, or existing intervening buildings, can reduce line-of-sight exterior noise levels by approximately 5 to 15 dBA, depending on the applied physical configuration (FHWA 2006). The estimated noise impacts shown in Table 10 incorporate these BMPs.

With the application of construction noise BMPs, exterior noise levels would be reduced by approximately 10 dBA, possibly up to 15 dBA. Therefore, based on the provisions set forth in LAMC 112.05, implementation of the LAMC-required noise control measures described below would enable the proposed Project to comply with the LAMC, and construction noise impacts would be less than significant.

The construction noise control BMPs required by LAMC Section 112.05 would include the following:

1. The Project shall comply with the City of Los Angeles Noise Ordinance No. 161,574 (see LAMC Section 112.05) and any subsequent ordinances (et seq) which prohibit the emission or creation of noise beyond certain levels.
2. Construction shall be restricted to the hours of 7:00 a.m. to 9:00 p.m. Monday through Friday and 8:00 a.m. to 6:00 p.m. on Saturdays or national holidays. No construction work shall be performed at any time on Sundays.
3. Construction activities shall be scheduled to avoid operating several pieces of large equipment simultaneously, which can cumulatively cause higher noise levels.
4. Noise-generating equipment operated at the Project site shall be equipped with the most effective and technologically feasible noise control devices, such as mufflers, lagging (enclosures for exhaust pipes), and/or motor enclosures. All equipment shall be properly maintained to assure that no additional noise due to worn or improperly maintained parts would be generated.
5. Where its location on the site may be flexible (e.g., air compressors, generators, cement and mortar mixers, and materials deliveries), noise-generating equipment shall be placed as far as practical from the nearest noise-sensitive land uses. Natural and/or man-made barriers (e.g., trees, fencing, curtains) shall be used to screen propagation of noise from such activities toward these land uses to the maximum extent possible.
6. The Project shall implement noise barriers comprising plywood construction fencing and/or flexible sound-absorbing curtains. The noise barriers shall be erected between the receptor and the construction site to minimize the transmission of construction noise toward nearby noise-sensitive land uses. The noise barriers shall be at least 8 feet in height and constructed of materials achieving an Insertion Loss (IL) coefficient of at least 5 dBA for flexible curtains, 8 dBA for rigid plywood fencing, or 10 dBA in combination (FHWA 2006).
7. The Project shall comply with the City of Los Angeles Building Regulations Ordinance No. 178,048 (see LAMC Section 91.106.4.8), which requires a construction site notice to be provided that includes the following information: job site address, permit number, name and phone number of the contractor and owner or owner's agent, hours of construction allowed by code or any discretionary approval for the site, and City telephone numbers where violations can be reported. The notice shall be posted and maintained at the

construction site prior to the start of construction and displayed in a location that is readily visible to the public, i.e., in plain sight.

Operational Noise – LAMC Section 112.02

Upon completion of construction and occupancy of the proposed Project, on-site operational noise would be generated mainly by heating, ventilation, and air conditioning (HVAC) equipment installed on the roof of the new building. However, the overall noise levels generated by the new HVAC equipment are not expected to be substantially greater than generated by older HVAC equipment installed on existing buildings near the Project site. As such, the new HVAC equipment associated with the proposed Project would not represent a substantially new type or source of noise in the general vicinity. In addition, the operation of this and any other on-site stationary sources of mechanical noise would be required to comply with the LAMC Section 112.02, which prohibits noise from air conditioning, refrigeration, heating, pumping, and filtering equipment from exceeding the ambient noise level on the premises of other occupied properties, e.g., nearby residential buildings, by more than 5 dBA. Such equipment is designed to meet this standard.

No adverse impacts are expected from, and no noise reduction measures would be required for, the operation of the proposed project. Therefore, the operational noise impacts of the proposed Project would be less than significant.

Interior areas of the completed Project would not be adversely impacted by ambient (outdoor) urban noise because the Project would be constructed to meet applicable California Code of Regulations (CCR) Title 24 Parts 6 and 11 building energy efficiency standards (CEC 2019). Thermal insulation, e.g., fiberglass batting in exterior walls and double-pane windows, also attenuates sound transmission and thus would provide an acceptable interior noise environment, which is particularly important for sensitive land uses. Specifically, the proposed Project would be designed and constructed to maintain interior noise levels at or below a Community Noise Equivalent Level (CNEL) of 45 dBA in any normally occupied space of the Project with no other sources of interior noise operating, such as HVAC, appliances, power tools, or office equipment. As such, interior noise impacts of the proposed Project would be less than significant.

This study predicts a less than significant impact in accordance with the LAMC. As described above, temporary noise barriers will need to be installed as BMP during the early stages of construction where heavy equipment activities are conducted.

PROJECTED IMPACT: Less Than Significant (LTS)

MITIGATION: None Required

12121 Foothill Boulevard

July 16, 2021

Page 18 of 20

CLOSING

Thank you very much for the opportunity to be of assistance to Banner SoCal Developer. Should you have any questions, please contact me at (949) 426-6765 (mobile).

Sincerely,

A handwritten signature in black ink that reads "McGregor Stadtmiller". The signature is written in a cursive, flowing style.

McGregor Stadtmiller, BSChemE | San Juan Capistrano Office

Engineer

Yorke Engineering, LLC

MStadtmiller@YorkeEngr.com

cc: Bradford Boyes, Yorke Engineering, LLC

Enclosures/Attachments:

1. CalEEMod Outputs

AIR QUALITY AND GHG REFERENCES

California Air Resources Board (CARB). 2017. California's 2017 Climate Change Scoping Plan. Website (<https://ww3.arb.ca.gov/cc/scopingplan/scopingplan.htm>) accessed July 15, 2021.

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ATTACHMENT 1 – CALEEMOD OUTPUTS

12121 Foothill - Los Angeles-South Coast County, Winter

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

12121 Foothill

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	137.05	1000sqft	1.05	137,050.00	0
Other Asphalt Surfaces	25.71	1000sqft	0.59	25,710.00	0
Other Non-Asphalt Surfaces	15.90	1000sqft	0.36	15,895.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage of building updated to match footprint of architectural drawings.

Construction Phase - Architectural coating timeline updated to match construction schedule.

Demolition -

Vehicle Trips - Trip rates updated to reflect expected traffic plan.

Construction Off-road Equipment Mitigation - Watering exposed area 3x daily and performing street sweeping to achieve clean paved road reduction.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

12121 Foothill - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/10/2022	8/24/2022
tblLandUse	LotAcreage	3.15	1.05
tblVehicleTrips	ST_TR	6.42	0.75
tblVehicleTrips	SU_TR	5.09	0.75
tblVehicleTrips	WD_TR	3.93	0.75

2.0 Emissions Summary

12121 Foothill - Los Angeles-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2021	2.1928	20.2453	16.4420	0.0354	7.1944	1.0438	8.1109	3.4544	0.9742	4.2976	0.0000	3,386.0327	3,386.0327	0.6486	0.1123	3,429.5677
2022	64.3612	14.1915	15.9406	0.0350	1.0241	0.6078	1.6319	0.2758	0.5868	0.8626	0.0000	3,346.2132	3,346.2132	0.4150	0.1081	3,388.1900
Maximum	64.3612	20.2453	16.4420	0.0354	7.1944	1.0438	8.1109	3.4544	0.9742	4.2976	0.0000	3,386.0327	3,386.0327	0.6486	0.1123	3,429.5677

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	lb/day										lb/day					
2021	2.1928	20.2453	16.4420	0.0354	2.8254	1.0438	3.7419	1.3534	0.9742	2.1966	0.0000	3,386.0327	3,386.0327	0.6486	0.1123	3,429.5677
2022	64.3612	14.1915	15.9406	0.0350	0.5935	0.6078	1.2014	0.1701	0.5868	0.7569	0.0000	3,346.2132	3,346.2132	0.4150	0.1081	3,388.1900
Maximum	64.3612	20.2453	16.4420	0.0354	2.8254	1.0438	3.7419	1.3534	0.9742	2.1966	0.0000	3,386.0327	3,386.0327	0.6486	0.1123	3,429.5677

12121 Foothill - Los Angeles-South Coast County, Winter

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
Percent Reduction	0.00	0.00	0.00	0.00	58.40	0.00	49.26	59.16	0.00	42.76	0.00	0.00	0.00	0.00	0.00	0.00

12121 Foothill - Los Angeles-South Coast County, Winter

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

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	lb/day										lb/day					
Area	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Mobile	0.3636	0.4445	4.0197	8.9700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		914.2838	914.2838	0.0601	0.0385	927.2595
Total	3.5176	1.1058	4.5933	0.0129	0.9582	0.0569	1.0151	0.2552	0.0564	0.3117		1,707.6889	1,707.6889	0.0754	0.0531	1,725.3818

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	lb/day										lb/day					
Area	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Mobile	0.3636	0.4445	4.0197	8.9700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		914.2838	914.2838	0.0601	0.0385	927.2595
Total	3.5176	1.1058	4.5933	0.0129	0.9582	0.0569	1.0151	0.2552	0.0564	0.3117		1,707.6889	1,707.6889	0.0754	0.0531	1,725.3818

12121 Foothill - Los Angeles-South Coast County, Winter

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
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	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	9/30/2021	5	2	
3	Grading	Grading	10/1/2021	10/6/2021	5	4	
4	Building Construction	Building Construction	10/7/2021	7/13/2022	5	200	
5	Paving	Paving	7/14/2022	7/27/2022	5	10	
6	Architectural Coating	Architectural Coating	7/28/2022	8/24/2022	5	20	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.95

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,575; Non-Residential Outdoor: 68,525; Striped Parking Area: 2,496 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20

12121 Foothill - Los Angeles-South Coast County, Winter

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

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	75.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	17.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

12121 Foothill - Los Angeles-South Coast County, Winter

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

Clean Paved Roads

3.2 Demolition - 2021

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	lb/day										lb/day					
Fugitive Dust					0.1821	0.0000	0.1821	0.0276	0.0000	0.0276			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	0.1821	1.0409	1.2230	0.0276	0.9715	0.9990		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2021

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	lb/day										lb/day					
Hauling	5.5300e-003	0.1688	0.0381	5.4000e-004	0.0149	1.8900e-003	0.0168	4.0800e-003	1.8000e-003	5.8800e-003		59.4517	59.4517	3.1100e-003	9.4300e-003	62.3389
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
Worker	0.0521	0.0413	0.5139	1.3000e-003	0.1453	1.0000e-003	0.1463	0.0385	9.2000e-004	0.0395		131.3342	131.3342	4.1400e-003	3.7900e-003	132.5671
Total	0.0576	0.2101	0.5520	1.8400e-003	0.1602	2.8900e-003	0.1631	0.0426	2.7200e-003	0.0453		190.7859	190.7859	7.2500e-003	0.0132	194.9060

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	lb/day										lb/day					
Fugitive Dust					0.0710	0.0000	0.0710	0.0108	0.0000	0.0108			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	0.0710	1.0409	1.1119	0.0108	0.9715	0.9822	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2021

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	lb/day										lb/day					
Hauling	5.5300e-003	0.1688	0.0381	5.4000e-004	9.2600e-003	1.8900e-003	0.0111	2.7000e-003	1.8000e-003	4.5000e-003		59.4517	59.4517	3.1100e-003	9.4300e-003	62.3389
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
Worker	0.0521	0.0413	0.5139	1.3000e-003	0.0822	1.0000e-003	0.0831	0.0230	9.2000e-004	0.0240		131.3342	131.3342	4.1400e-003	3.7900e-003	132.5671
Total	0.0576	0.2101	0.5520	1.8400e-003	0.0914	2.8900e-003	0.0943	0.0257	2.7200e-003	0.0285		190.7859	190.7859	7.2500e-003	0.0132	194.9060

3.3 Site Preparation - 2021

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	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	6.2662	0.7654	7.0316	3.0041	0.7041	3.7082		1,666.5174	1,666.5174	0.5390		1,679.9920

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.3 Site Preparation - 2021

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	lb/day										lb/day					
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
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
Worker	0.0321	0.0254	0.3163	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		80.8211	80.8211	2.5500e-003	2.3300e-003	81.5798
Total	0.0321	0.0254	0.3163	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		80.8211	80.8211	2.5500e-003	2.3300e-003	81.5798

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	lb/day										lb/day					
Fugitive Dust					2.4438	0.0000	2.4438	1.1716	0.0000	1.1716			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	2.4438	0.7654	3.2092	1.1716	0.7041	1.8757	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.3 Site Preparation - 2021

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	lb/day										lb/day					
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
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
Worker	0.0321	0.0254	0.3163	8.0000e-004	0.0506	6.1000e-004	0.0512	0.0142	5.6000e-004	0.0147		80.8211	80.8211	2.5500e-003	2.3300e-003	81.5798
Total	0.0321	0.0254	0.3163	8.0000e-004	0.0506	6.1000e-004	0.0512	0.0142	5.6000e-004	0.0147		80.8211	80.8211	2.5500e-003	2.3300e-003	81.5798

3.4 Grading - 2021

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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	1.8271	20.2135	9.7604	0.0206	7.0826	0.9158	7.9983	3.4247	0.8425	4.2672		1,995.6114	1,995.6114	0.6454		2,011.7470

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.4 Grading - 2021

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	lb/day										lb/day					
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
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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		101.0263	101.0263	3.1800e-003	2.9200e-003	101.9747
Total	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		101.0263	101.0263	3.1800e-003	2.9200e-003	101.9747

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	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	1.8271	20.2135	9.7604	0.0206	2.7622	0.9158	3.6780	1.3357	0.8425	2.1781	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.4 Grading - 2021

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	lb/day										lb/day					
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
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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.0632	7.7000e-004	0.0640	0.0177	7.1000e-004	0.0184		101.0263	101.0263	3.1800e-003	2.9200e-003	101.9747
Total	0.0401	0.0318	0.3953	1.0000e-003	0.0632	7.7000e-004	0.0640	0.0177	7.1000e-004	0.0184		101.0263	101.0263	3.1800e-003	2.9200e-003	101.9747

3.5 Building Construction - 2021

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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0798	1.7409	0.5776	5.8400e-003	0.1858	0.0251	0.2109	0.0535	0.0241	0.0775		627.1154	627.1154	0.0213	0.0905	654.6058
Worker	0.3004	0.2383	2.9651	7.5000e-003	0.8383	5.7500e-003	0.8441	0.2223	5.2900e-003	0.2276		757.6974	757.6974	0.0239	0.0219	764.8102
Total	0.3803	1.9791	3.5426	0.0133	1.0241	0.0309	1.0550	0.2758	0.0293	0.3052		1,384.8127	1,384.8127	0.0451	0.1123	1,419.4160

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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0798	1.7409	0.5776	5.8400e-003	0.1196	0.0251	0.1448	0.0373	0.0241	0.0613		627.1154	627.1154	0.0213	0.0905	654.6058
Worker	0.3004	0.2383	2.9651	7.5000e-003	0.4739	5.7500e-003	0.4797	0.1329	5.2900e-003	0.1382		757.6974	757.6974	0.0239	0.0219	764.8102
Total	0.3803	1.9791	3.5426	0.0133	0.5935	0.0309	0.6244	0.1701	0.0293	0.1995		1,384.8127	1,384.8127	0.0451	0.1123	1,419.4160

3.5 Building Construction - 2022

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2022

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	lb/day										lb/day					
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
Vendor	0.0564	1.4791	0.5039	5.6800e-003	0.1858	0.0136	0.1993	0.0535	0.0130	0.0665		610.5679	610.5679	0.0203	0.0881	637.3194
Worker	0.2778	0.2093	2.7103	7.2600e-003	0.8383	5.3600e-003	0.8437	0.2223	4.9400e-003	0.2273		734.1024	734.1024	0.0214	0.0201	740.6126
Total	0.3342	1.6884	3.2141	0.0129	1.0241	0.0189	1.0430	0.2758	0.0179	0.2938		1,344.6703	1,344.6703	0.0417	0.1081	1,377.9319

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.5 Building Construction - 2022

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	lb/day										lb/day					
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
Vendor	0.0564	1.4791	0.5039	5.6800e-003	0.1196	0.0136	0.1332	0.0373	0.0130	0.0502		610.5679	610.5679	0.0203	0.0881	637.3194
Worker	0.2778	0.2093	2.7103	7.2600e-003	0.4739	5.3600e-003	0.4793	0.1329	4.9400e-003	0.1378		734.1024	734.1024	0.0214	0.0201	740.6126
Total	0.3342	1.6884	3.2141	0.0129	0.5935	0.0189	0.6125	0.1701	0.0179	0.1881		1,344.6703	1,344.6703	0.0417	0.1081	1,377.9319

3.6 Paving - 2022

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8423	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2022

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	lb/day										lb/day					
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
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
Worker	0.0482	0.0363	0.4698	1.2600e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.2444	127.2444	3.7000e-003	3.4800e-003	128.3729
Total	0.0482	0.0363	0.4698	1.2600e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.2444	127.2444	3.7000e-003	3.4800e-003	128.3729

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8423	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2022

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	lb/day										lb/day					
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
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
Worker	0.0482	0.0363	0.4698	1.2600e-003	0.0822	9.3000e-004	0.0831	0.0230	8.6000e-004	0.0239		127.2444	127.2444	3.7000e-003	3.4800e-003	128.3729
Total	0.0482	0.0363	0.4698	1.2600e-003	0.0822	9.3000e-004	0.0831	0.0230	8.6000e-004	0.0239		127.2444	127.2444	3.7000e-003	3.4800e-003	128.3729

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
Archit. Coating	64.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	64.3057	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
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
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
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225
Total	0.0556	0.0419	0.5421	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225

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	lb/day										lb/day					
Archit. Coating	64.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	64.3057	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

12121 Foothill - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
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
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
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.0948	1.0700e-003	0.0959	0.0266	9.9000e-004	0.0276		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225
Total	0.0556	0.0419	0.5421	1.4500e-003	0.0948	1.0700e-003	0.0959	0.0266	9.9000e-004	0.0276		146.8205	146.8205	4.2700e-003	4.0100e-003	148.1225

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

12121 Foothill - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
Mitigated	0.3636	0.4445	4.0197	8.9700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		914.2838	914.2838	0.0601	0.0385	927.2595
Unmitigated	0.3636	0.4445	4.0197	8.9700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		914.2838	914.2838	0.0601	0.0385	927.2595

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	102.79	102.79	102.79	455,172	455,172
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	102.79	102.79	102.79	455,172	455,172

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
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	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
General Heavy Industry	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

12121 Foothill - Los Angeles-South Coast County, Winter

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

Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	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	lb/day										lb/day					
NaturalGas Mitigated	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
NaturalGas Unmitigated	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806

12121 Foothill - Los Angeles-South Coast County, Winter

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

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	lb/day										lb/day					
General Heavy Industry	6743.61	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806

12121 Foothill - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
General Heavy Industry	6.74361	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

12121 Foothill - Los Angeles-South Coast County, Winter

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	lb/day										lb/day					
Mitigated	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Unmitigated	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

6.2 Area by SubCategory

Unmitigated

	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	lb/day										lb/day					
Architectural Coating	0.3512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6900e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

12121 Foothill - Los Angeles-South Coast County, Winter

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

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.3512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6900e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

12121 Foothill - Los Angeles-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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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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

12121 Foothill - Los Angeles-South Coast County, Summer

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

12121 Foothill

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	137.05	1000sqft	1.05	137,050.00	0
Other Asphalt Surfaces	25.71	1000sqft	0.59	25,710.00	0
Other Non-Asphalt Surfaces	15.90	1000sqft	0.36	15,895.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage of building updated to match footprint of architectural drawings.

Construction Phase - Architectural coating timeline updated to match construction schedule.

Demolition -

Vehicle Trips - Trip rates updated to reflect expected traffic plan.

Construction Off-road Equipment Mitigation - Watering exposed area 3x daily and performing street sweeping to achieve clean paved road reduction.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

12121 Foothill - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/10/2022	8/24/2022
tblLandUse	LotAcreage	3.15	1.05
tblVehicleTrips	ST_TR	6.42	0.75
tblVehicleTrips	SU_TR	5.09	0.75
tblVehicleTrips	WD_TR	3.93	0.75

2.0 Emissions Summary

12121 Foothill - Los Angeles-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2021	2.1744	20.2423	16.6927	0.0358	7.1944	1.0438	8.1109	3.4544	0.9742	4.2976	0.0000	3,428.4525	3,428.4525	0.6486	0.1108	3,471.5356
2022	64.3576	14.1130	16.1653	0.0354	1.0241	0.6078	1.6319	0.2758	0.5867	0.8626	0.0000	3,386.9629	3,386.9629	0.4149	0.1067	3,428.5179
Maximum	64.3576	20.2423	16.6927	0.0358	7.1944	1.0438	8.1109	3.4544	0.9742	4.2976	0.0000	3,428.4525	3,428.4525	0.6486	0.1108	3,471.5356

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	lb/day										lb/day					
2021	2.1744	20.2423	16.6927	0.0358	2.8254	1.0438	3.7419	1.3534	0.9742	2.1966	0.0000	3,428.4525	3,428.4525	0.6486	0.1108	3,471.5356
2022	64.3576	14.1130	16.1653	0.0354	0.5935	0.6078	1.2013	0.1701	0.5867	0.7569	0.0000	3,386.9629	3,386.9629	0.4149	0.1067	3,428.5179
Maximum	64.3576	20.2423	16.6927	0.0358	2.8254	1.0438	3.7419	1.3534	0.9742	2.1966	0.0000	3,428.4525	3,428.4525	0.6486	0.1108	3,471.5356

12121 Foothill - Los Angeles-South Coast County, Summer

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
Percent Reduction	0.00	0.00	0.00	0.00	58.40	0.00	49.26	59.16	0.00	42.76	0.00	0.00	0.00	0.00	0.00	0.00

12121 Foothill - Los Angeles-South Coast County, Summer

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

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	lb/day										lb/day					
Area	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Mobile	0.3688	0.4114	4.1532	9.3700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		955.2952	955.2952	0.0588	0.0369	967.7529
Total	3.5228	1.0727	4.7268	0.0133	0.9582	0.0569	1.0151	0.2552	0.0564	0.3117		1,748.7003	1,748.7003	0.0742	0.0514	1,765.8752

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	lb/day										lb/day					
Area	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Mobile	0.3688	0.4114	4.1532	9.3700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		955.2952	955.2952	0.0588	0.0369	967.7529
Total	3.5228	1.0727	4.7268	0.0133	0.9582	0.0569	1.0151	0.2552	0.0564	0.3117		1,748.7003	1,748.7003	0.0742	0.0514	1,765.8752

12121 Foothill - Los Angeles-South Coast County, Summer

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
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	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	9/30/2021	5	2	
3	Grading	Grading	10/1/2021	10/6/2021	5	4	
4	Building Construction	Building Construction	10/7/2021	7/13/2022	5	200	
5	Paving	Paving	7/14/2022	7/27/2022	5	10	
6	Architectural Coating	Architectural Coating	7/28/2022	8/24/2022	5	20	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.95

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,575; Non-Residential Outdoor: 68,525; Striped Parking Area: 2,496 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20

12121 Foothill - Los Angeles-South Coast County, Summer

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

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	75.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	17.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

12121 Foothill - Los Angeles-South Coast County, Summer

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

Clean Paved Roads

3.2 Demolition - 2021

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	lb/day										lb/day					
Fugitive Dust					0.1821	0.0000	0.1821	0.0276	0.0000	0.0276			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.717 1	2,322.717 1	0.5940		2,337.565 8
Total	1.9930	19.6966	14.4925	0.0241	0.1821	1.0409	1.2230	0.0276	0.9715	0.9990		2,322.717 1	2,322.717 1	0.5940		2,337.565 8

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2021

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	lb/day										lb/day					
Hauling	5.6100e-003	0.1624	0.0375	5.4000e-004	0.0149	1.8800e-003	0.0168	4.0800e-003	1.8000e-003	5.8800e-003		59.4451	59.4451	3.1100e-003	9.4300e-003	62.3320
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
Worker	0.0488	0.0374	0.5605	1.3700e-003	0.1453	1.0000e-003	0.1463	0.0385	9.2000e-004	0.0395		138.6898	138.6898	4.1000e-003	3.5500e-003	139.8488
Total	0.0544	0.1998	0.5980	1.9100e-003	0.1602	2.8800e-003	0.1631	0.0426	2.7200e-003	0.0453		198.1349	198.1349	7.2100e-003	0.0130	202.1807

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	lb/day										lb/day					
Fugitive Dust					0.0710	0.0000	0.0710	0.0108	0.0000	0.0108			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	0.0710	1.0409	1.1119	0.0108	0.9715	0.9822	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2021

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	lb/day										lb/day					
Hauling	5.6100e-003	0.1624	0.0375	5.4000e-004	9.2600e-003	1.8800e-003	0.0111	2.7000e-003	1.8000e-003	4.5000e-003		59.4451	59.4451	3.1100e-003	9.4300e-003	62.3320
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
Worker	0.0488	0.0374	0.5605	1.3700e-003	0.0822	1.0000e-003	0.0831	0.0230	9.2000e-004	0.0240		138.6898	138.6898	4.1000e-003	3.5500e-003	139.8488
Total	0.0544	0.1998	0.5980	1.9100e-003	0.0914	2.8800e-003	0.0943	0.0257	2.7200e-003	0.0285		198.1349	198.1349	7.2100e-003	0.0130	202.1807

3.3 Site Preparation - 2021

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	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041		1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	6.2662	0.7654	7.0316	3.0041	0.7041	3.7082		1,666.5174	1,666.5174	0.5390		1,679.9920

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.3 Site Preparation - 2021

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	lb/day										lb/day					
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
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
Worker	0.0300	0.0230	0.3449	8.4000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		85.3476	85.3476	2.5200e-003	2.1800e-003	86.0608
Total	0.0300	0.0230	0.3449	8.4000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.6000e-004	0.0243		85.3476	85.3476	2.5200e-003	2.1800e-003	86.0608

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	lb/day										lb/day					
Fugitive Dust					2.4438	0.0000	2.4438	1.1716	0.0000	1.1716			0.0000			0.0000
Off-Road	1.5558	17.4203	7.5605	0.0172		0.7654	0.7654		0.7041	0.7041	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920
Total	1.5558	17.4203	7.5605	0.0172	2.4438	0.7654	3.2092	1.1716	0.7041	1.8757	0.0000	1,666.5174	1,666.5174	0.5390		1,679.9920

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.3 Site Preparation - 2021

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	lb/day										lb/day					
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
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
Worker	0.0300	0.0230	0.3449	8.4000e-004	0.0506	6.1000e-004	0.0512	0.0142	5.6000e-004	0.0147		85.3476	85.3476	2.5200e-003	2.1800e-003	86.0608
Total	0.0300	0.0230	0.3449	8.4000e-004	0.0506	6.1000e-004	0.0512	0.0142	5.6000e-004	0.0147		85.3476	85.3476	2.5200e-003	2.1800e-003	86.0608

3.4 Grading - 2021

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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425		1,995.6114	1,995.6114	0.6454		2,011.7470
Total	1.8271	20.2135	9.7604	0.0206	7.0826	0.9158	7.9983	3.4247	0.8425	4.2672		1,995.6114	1,995.6114	0.6454		2,011.7470

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.4 Grading - 2021

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	lb/day										lb/day					
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
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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		106.6845	106.6845	3.1500e-003	2.7300e-003	107.5760
Total	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		106.6845	106.6845	3.1500e-003	2.7300e-003	107.5760

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	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.8271	20.2135	9.7604	0.0206		0.9158	0.9158		0.8425	0.8425	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470
Total	1.8271	20.2135	9.7604	0.0206	2.7622	0.9158	3.6780	1.3357	0.8425	2.1781	0.0000	1,995.6114	1,995.6114	0.6454		2,011.7470

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.4 Grading - 2021

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	lb/day										lb/day					
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
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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.0632	7.7000e-004	0.0640	0.0177	7.1000e-004	0.0184		106.6845	106.6845	3.1500e-003	2.7300e-003	107.5760
Total	0.0376	0.0288	0.4312	1.0600e-003	0.0632	7.7000e-004	0.0640	0.0177	7.1000e-004	0.0184		106.6845	106.6845	3.1500e-003	2.7300e-003	107.5760

3.5 Building Construction - 2021

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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0803	1.6745	0.5597	5.8400e-003	0.1858	0.0251	0.2108	0.0535	0.0240	0.0775		627.0991	627.0991	0.0213	0.0904	654.5640
Worker	0.2816	0.2156	3.2336	7.9200e-003	0.8383	5.7500e-003	0.8441	0.2223	5.2900e-003	0.2276		800.1334	800.1334	0.0236	0.0205	806.8199
Total	0.3619	1.8901	3.7933	0.0138	1.0241	0.0308	1.0549	0.2758	0.0293	0.3051		1,427.2325	1,427.2325	0.0450	0.1108	1,461.3839

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	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2021

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	lb/day										lb/day					
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
Vendor	0.0803	1.6745	0.5597	5.8400e-003	0.1196	0.0251	0.1447	0.0373	0.0240	0.0612		627.0991	627.0991	0.0213	0.0904	654.5640
Worker	0.2816	0.2156	3.2336	7.9200e-003	0.4739	5.7500e-003	0.4797	0.1329	5.2900e-003	0.1382		800.1334	800.1334	0.0236	0.0205	806.8199
Total	0.3619	1.8901	3.7933	0.0138	0.5935	0.0308	0.6243	0.1701	0.0293	0.1994		1,427.2325	1,427.2325	0.0450	0.1108	1,461.3839

3.5 Building Construction - 2022

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2022

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	lb/day										lb/day					
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
Vendor	0.0571	1.4205	0.4871	5.6800e-003	0.1858	0.0135	0.1993	0.0535	0.0129	0.0664		610.3386	610.3386	0.0204	0.0880	637.0579
Worker	0.2595	0.1894	2.9519	7.6700e-003	0.8383	5.3600e-003	0.8437	0.2223	4.9400e-003	0.2273		775.0814	775.0814	0.0211	0.0188	781.2020
Total	0.3166	1.6100	3.4389	0.0134	1.0241	0.0189	1.0430	0.2758	0.0179	0.2937		1,385.4201	1,385.4201	0.0415	0.1067	1,418.2599

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.5 Building Construction - 2022

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	lb/day										lb/day					
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
Vendor	0.0571	1.4205	0.4871	5.6800e-003	0.1196	0.0135	0.1332	0.0373	0.0129	0.0502		610.3386	610.3386	0.0204	0.0880	637.0579
Worker	0.2595	0.1894	2.9519	7.6700e-003	0.4739	5.3600e-003	0.4793	0.1329	4.9400e-003	0.1378		775.0814	775.0814	0.0211	0.0188	781.2020
Total	0.3166	1.6100	3.4389	0.0134	0.5935	0.0189	0.6124	0.1701	0.0179	0.1880		1,385.4201	1,385.4201	0.0415	0.1067	1,418.2599

3.6 Paving - 2022

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8423	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2022

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	lb/day										lb/day					
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
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
Worker	0.0450	0.0328	0.5117	1.3300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		134.3475	134.3475	3.6600e-003	3.2500e-003	135.4083
Total	0.0450	0.0328	0.5117	1.3300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		134.3475	134.3475	3.6600e-003	3.2500e-003	135.4083

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.1546					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8423	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2022

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	lb/day										lb/day					
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
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
Worker	0.0450	0.0328	0.5117	1.3300e-003	0.0822	9.3000e-004	0.0831	0.0230	8.6000e-004	0.0239		134.3475	134.3475	3.6600e-003	3.2500e-003	135.4083
Total	0.0450	0.0328	0.5117	1.3300e-003	0.0822	9.3000e-004	0.0831	0.0230	8.6000e-004	0.0239		134.3475	134.3475	3.6600e-003	3.2500e-003	135.4083

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
Archit. Coating	64.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	64.3057	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
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
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
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404
Total	0.0519	0.0379	0.5904	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404

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	lb/day										lb/day					
Archit. Coating	64.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	64.3057	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

12121 Foothill - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
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
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
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.0948	1.0700e-003	0.0959	0.0266	9.9000e-004	0.0276		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404
Total	0.0519	0.0379	0.5904	1.5300e-003	0.0948	1.0700e-003	0.0959	0.0266	9.9000e-004	0.0276		155.0163	155.0163	4.2200e-003	3.7500e-003	156.2404

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

12121 Foothill - Los Angeles-South Coast County, Summer

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	lb/day										lb/day					
Mitigated	0.3688	0.4114	4.1532	9.3700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		955.2952	955.2952	0.0588	0.0369	967.7529
Unmitigated	0.3688	0.4114	4.1532	9.3700e-003	0.9582	6.5800e-003	0.9648	0.2552	6.1100e-003	0.2613		955.2952	955.2952	0.0588	0.0369	967.7529

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	102.79	102.79	102.79	455,172	455,172
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	102.79	102.79	102.79	455,172	455,172

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
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	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
General Heavy Industry	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

12121 Foothill - Los Angeles-South Coast County, Summer

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

Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	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	lb/day										lb/day					
NaturalGas Mitigated	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
NaturalGas Unmitigated	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806

12121 Foothill - Los Angeles-South Coast County, Summer

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

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	lb/day										lb/day					
General Heavy Industry	6743.61	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806

12121 Foothill - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

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	lb/day										lb/day					
General Heavy Industry	6.74361	0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Total		0.0727	0.6611	0.5554	3.9700e-003		0.0503	0.0503		0.0503	0.0503		793.3660	793.3660	0.0152	0.0146	798.0806

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

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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	lb/day										lb/day					
Mitigated	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Unmitigated	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

6.2 Area by SubCategory

Unmitigated

	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	lb/day										lb/day					
Architectural Coating	0.3512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6900e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

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

6.2 Area by SubCategory

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	lb/day										lb/day					
Architectural Coating	0.3512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6900e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	3.0813	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

12121 Foothill - Los Angeles-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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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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

12121 Foothill - Los Angeles-South Coast County, Annual

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

12121 Foothill

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	137.05	1000sqft	1.05	137,050.00	0
Other Asphalt Surfaces	25.71	1000sqft	0.59	25,710.00	0
Other Non-Asphalt Surfaces	15.90	1000sqft	0.36	15,895.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage of building updated to match footprint of architectural drawings.

Construction Phase - Architectural coating timeline updated to match construction schedule.

Demolition -

Vehicle Trips - Trip rates updated to reflect expected traffic plan.

Construction Off-road Equipment Mitigation - Watering exposed area 3x daily and performing street sweeping to achieve clean paved road reduction.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

12121 Foothill - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	50
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	8/10/2022	8/24/2022
tblLandUse	LotAcreage	3.15	1.05
tblVehicleTrips	ST_TR	6.42	0.75
tblVehicleTrips	SU_TR	5.09	0.75
tblVehicleTrips	WD_TR	3.93	0.75

2.0 Emissions Summary

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

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					
2021	0.0931	0.7419	0.6906	1.4200e-003	0.0553	0.0352	0.0905	0.0190	0.0335	0.0526	0.0000	123.7572	123.7572	0.0184	3.3000e-003	125.2007
2022	0.7834	1.0289	1.1742	2.5400e-003	0.0717	0.0445	0.1162	0.0193	0.0429	0.0623	0.0000	220.5137	220.5137	0.0265	6.8400e-003	223.2149
Maximum	0.7834	1.0289	1.1742	2.5400e-003	0.0717	0.0445	0.1162	0.0193	0.0429	0.0623	0.0000	220.5137	220.5137	0.0265	6.8400e-003	223.2149

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					
2021	0.0931	0.7419	0.6906	1.4200e-003	0.0279	0.0352	0.0631	9.4500e-003	0.0335	0.0430	0.0000	123.7571	123.7571	0.0184	3.3000e-003	125.2006
2022	0.7834	1.0289	1.1742	2.5400e-003	0.0416	0.0445	0.0861	0.0120	0.0429	0.0549	0.0000	220.5136	220.5136	0.0265	6.8400e-003	223.2148
Maximum	0.7834	1.0289	1.1742	2.5400e-003	0.0416	0.0445	0.0861	0.0120	0.0429	0.0549	0.0000	220.5136	220.5136	0.0265	6.8400e-003	223.2148

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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	0.00	0.00	0.00	0.00	45.27	0.00	27.81	44.21	0.00	14.77	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	9-1-2021	11-30-2021	0.6302	0.6302
2	12-1-2021	2-28-2022	0.5380	0.5380
3	3-1-2022	5-31-2022	0.5293	0.5293
4	6-1-2022	8-31-2022	0.9434	0.9434
		Highest	0.9434	0.9434

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	0.5622	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003
Energy	0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	598.5133	598.5133	0.0248	5.1100e-003	600.6556
Mobile	0.0652	0.0822	0.7399	1.6500e-003	0.1710	1.2000e-003	0.1722	0.0456	1.1100e-003	0.0467	0.0000	152.5878	152.5878	9.8900e-003	6.4100e-003	154.7439
Waste						0.0000	0.0000		0.0000	0.0000	34.4963	0.0000	34.4963	2.0387	0.0000	85.4631
Water						0.0000	0.0000		0.0000	0.0000	10.0547	129.5282	139.5829	1.0389	0.0251	173.0448
Total	0.6407	0.2029	0.8436	2.3700e-003	0.1710	0.0104	0.1814	0.0456	0.0103	0.0559	44.5510	880.6338	925.1848	3.1123	0.0367	1,013.9121

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2.2 Overall Operational

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	0.5622	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003
Energy	0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	585.1781	585.1781	0.0242	5.0300e-003	587.2815
Mobile	0.0652	0.0822	0.7399	1.6500e-003	0.1710	1.2000e-003	0.1722	0.0456	1.1100e-003	0.0467	0.0000	152.5878	152.5878	9.8900e-003	6.4100e-003	154.7439
Waste						0.0000	0.0000		0.0000	0.0000	22.4226	0.0000	22.4226	1.3251	0.0000	55.5510
Water						0.0000	0.0000		0.0000	0.0000	8.0437	103.6226	111.6663	0.8311	0.0201	138.4358
Total	0.6407	0.2029	0.8436	2.3700e-003	0.1710	0.0104	0.1814	0.0456	0.0103	0.0559	30.4663	841.3930	871.8593	2.1903	0.0316	936.0169

	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	31.61	4.46	5.76	29.62	13.92	7.68

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	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	9/30/2021	5	2	
3	Grading	Grading	10/1/2021	10/6/2021	5	4	

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4	Building Construction	Building Construction	10/7/2021	7/13/2022	5	200
5	Paving	Paving	7/14/2022	7/27/2022	5	10
6	Architectural Coating	Architectural Coating	7/28/2022	8/24/2022	5	20

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.95

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 205,575; Non-Residential Outdoor: 68,525; Striped Parking Area: 2,496 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

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Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	75.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	17.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

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

3.2 Demolition - 2021

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					
Fugitive Dust					1.8200e-003	0.0000	1.8200e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	0.0199	0.1970	0.1449	2.4000e-004	1.8200e-003	0.0104	0.0122	2.8000e-004	9.7100e-003	9.9900e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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	6.0000e-005	1.7100e-003	3.8000e-004	1.0000e-005	1.5000e-004	2.0000e-005	1.7000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	0.5393	0.5393	3.0000e-005	9.0000e-005	0.5655
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	4.8000e-004	4.2000e-004	5.2700e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2093	1.2093	4.0000e-005	3.0000e-005	1.2207
Total	5.4000e-004	2.1300e-003	5.6500e-003	2.0000e-005	1.5700e-003	3.0000e-005	1.6000e-003	4.2000e-004	3.0000e-005	4.5000e-004	0.0000	1.7486	1.7486	7.0000e-005	1.2000e-004	1.7862

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3.2 Demolition - 2021

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					
Fugitive Dust					7.1000e-004	0.0000	7.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
Total	0.0199	0.1970	0.1449	2.4000e-004	7.1000e-004	0.0104	0.0111	1.1000e-004	9.7100e-003	9.8200e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060

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	6.0000e-005	1.7100e-003	3.8000e-004	1.0000e-005	9.0000e-005	2.0000e-005	1.1000e-004	3.0000e-005	2.0000e-005	4.0000e-005	0.0000	0.5393	0.5393	3.0000e-005	9.0000e-005	0.5655
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	4.8000e-004	4.2000e-004	5.2700e-003	1.0000e-005	8.1000e-004	1.0000e-005	8.2000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2093	1.2093	4.0000e-005	3.0000e-005	1.2207
Total	5.4000e-004	2.1300e-003	5.6500e-003	2.0000e-005	9.0000e-004	3.0000e-005	9.3000e-004	2.6000e-004	3.0000e-005	2.8000e-004	0.0000	1.7486	1.7486	7.0000e-005	1.2000e-004	1.7862

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3.3 Site Preparation - 2021

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					
Fugitive Dust					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	1.5600e-003	0.0174	7.5600e-003	2.0000e-005	6.2700e-003	7.7000e-004	7.0400e-003	3.0000e-003	7.0000e-004	3.7000e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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	3.0000e-005	3.0000e-005	3.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0751
Total	3.0000e-005	3.0000e-005	3.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0751

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3.3 Site Preparation - 2021

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					
Fugitive Dust					2.4400e-003	0.0000	2.4400e-003	1.1700e-003	0.0000	1.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
Total	1.5600e-003	0.0174	7.5600e-003	2.0000e-005	2.4400e-003	7.7000e-004	3.2100e-003	1.1700e-003	7.0000e-004	1.8700e-003	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241

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	3.0000e-005	3.0000e-005	3.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0751
Total	3.0000e-005	3.0000e-005	3.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0751

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3.4 Grading - 2021

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					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0404	0.0195	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	3.6500e-003	0.0404	0.0195	4.0000e-005	0.0142	1.8300e-003	0.0160	6.8500e-003	1.6800e-003	8.5300e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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	7.0000e-005	6.0000e-005	8.1000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1861	0.1861	1.0000e-005	1.0000e-005	0.1878
Total	7.0000e-005	6.0000e-005	8.1000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1861	0.1861	1.0000e-005	1.0000e-005	0.1878

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3.4 Grading - 2021

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					
Fugitive Dust					5.5200e-003	0.0000	5.5200e-003	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0404	0.0195	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	3.6500e-003	0.0404	0.0195	4.0000e-005	5.5200e-003	1.8300e-003	7.3500e-003	2.6700e-003	1.6800e-003	4.3500e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501

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	7.0000e-005	6.0000e-005	8.1000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1861	0.1861	1.0000e-005	1.0000e-005	0.1878
Total	7.0000e-005	6.0000e-005	8.1000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1861	0.1861	1.0000e-005	1.0000e-005	0.1878

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3.5 Building Construction - 2021

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	0.0562	0.4227	0.3999	6.8000e-004		0.0212	0.0212		0.0205	0.0205	0.0000	56.2798	56.2798	0.0101	0.0000	56.5310
Total	0.0562	0.4227	0.3999	6.8000e-004		0.0212	0.0212		0.0205	0.0205	0.0000	56.2798	56.2798	0.0101	0.0000	56.5310

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	2.4800e-003	0.0545	0.0176	1.8000e-004	5.6700e-003	7.8000e-004	6.4400e-003	1.6400e-003	7.4000e-004	2.3800e-003	0.0000	17.6360	17.6360	6.0000e-004	2.5400e-003	18.4092
Worker	8.6300e-003	7.5600e-003	0.0943	2.4000e-004	0.0255	1.8000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003	0.0000	21.6284	21.6284	6.7000e-004	6.2000e-004	21.8313
Total	0.0111	0.0621	0.1119	4.2000e-004	0.0312	9.6000e-004	0.0321	8.4100e-003	9.0000e-004	9.3100e-003	0.0000	39.2644	39.2644	1.2700e-003	3.1600e-003	40.2405

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3.5 Building Construction - 2021

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	0.0562	0.4227	0.3999	6.8000e-004		0.0212	0.0212		0.0205	0.0205	0.0000	56.2797	56.2797	0.0101	0.0000	56.5309
Total	0.0562	0.4227	0.3999	6.8000e-004		0.0212	0.0212		0.0205	0.0205	0.0000	56.2797	56.2797	0.0101	0.0000	56.5309

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	2.4800e-003	0.0545	0.0176	1.8000e-004	3.6600e-003	7.8000e-004	4.4400e-003	1.1400e-003	7.4000e-004	1.8900e-003	0.0000	17.6360	17.6360	6.0000e-004	2.5400e-003	18.4092
Worker	8.6300e-003	7.5600e-003	0.0943	2.4000e-004	0.0144	1.8000e-004	0.0146	4.0600e-003	1.6000e-004	4.2200e-003	0.0000	21.6284	21.6284	6.7000e-004	6.2000e-004	21.8313
Total	0.0111	0.0621	0.1119	4.2000e-004	0.0181	9.6000e-004	0.0191	5.2000e-003	9.0000e-004	6.1100e-003	0.0000	39.2644	39.2644	1.2700e-003	3.1600e-003	40.2405

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3.5 Building Construction - 2022

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	0.1138	0.8627	0.8781	1.5200e-003		0.0406	0.0406		0.0393	0.0393	0.0000	125.2881	125.2881	0.0218	0.0000	125.8336
Total	0.1138	0.8627	0.8781	1.5200e-003		0.0406	0.0406		0.0393	0.0393	0.0000	125.2881	125.2881	0.0218	0.0000	125.8336

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	3.9100e-003	0.1029	0.0341	3.9000e-004	0.0126	9.4000e-004	0.0136	3.6400e-003	8.9000e-004	4.5300e-003	0.0000	38.2107	38.2107	1.2800e-003	5.5100e-003	39.8851
Worker	0.0177	0.0148	0.1919	5.1000e-004	0.0567	3.7000e-004	0.0571	0.0151	3.4000e-004	0.0154	0.0000	46.6392	46.6392	1.3400e-003	1.2700e-003	47.0525
Total	0.0216	0.1177	0.2260	9.0000e-004	0.0693	1.3100e-003	0.0706	0.0187	1.2300e-003	0.0199	0.0000	84.8499	84.8499	2.6200e-003	6.7800e-003	86.9376

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3.5 Building Construction - 2022

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	0.1138	0.8627	0.8781	1.5200e-003		0.0406	0.0406		0.0393	0.0393	0.0000	125.2879	125.2879	0.0218	0.0000	125.8335
Total	0.1138	0.8627	0.8781	1.5200e-003		0.0406	0.0406		0.0393	0.0393	0.0000	125.2879	125.2879	0.0218	0.0000	125.8335

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	3.9100e-003	0.1029	0.0341	3.9000e-004	8.1500e-003	9.4000e-004	9.0900e-003	2.5500e-003	8.9000e-004	3.4400e-003	0.0000	38.2107	38.2107	1.2800e-003	5.5100e-003	39.8851
Worker	0.0177	0.0148	0.1919	5.1000e-004	0.0321	3.7000e-004	0.0325	9.0300e-003	3.4000e-004	9.3700e-003	0.0000	46.6392	46.6392	1.3400e-003	1.2700e-003	47.0525
Total	0.0216	0.1177	0.2260	9.0000e-004	0.0403	1.3100e-003	0.0416	0.0116	1.2300e-003	0.0128	0.0000	84.8499	84.8499	2.6200e-003	6.7800e-003	86.9376

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3.6 Paving - 2022

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	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.2100e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315

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	2.2000e-004	1.9000e-004	2.4100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5858	0.5858	2.0000e-005	2.0000e-005	0.5910
Total	2.2000e-004	1.9000e-004	2.4100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5858	0.5858	2.0000e-005	2.0000e-005	0.5910

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3.6 Paving - 2022

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	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.2100e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314

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	2.2000e-004	1.9000e-004	2.4100e-003	1.0000e-005	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.5858	0.5858	2.0000e-005	2.0000e-005	0.5910
Total	2.2000e-004	1.9000e-004	2.4100e-003	1.0000e-005	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.5858	0.5858	2.0000e-005	2.0000e-005	0.5910

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3.7 Architectural Coating - 2022

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	0.6410					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.6431	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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	5.1000e-004	4.3000e-004	5.5600e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3519	1.3519	4.0000e-005	4.0000e-005	1.3638
Total	5.1000e-004	4.3000e-004	5.5600e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3519	1.3519	4.0000e-005	4.0000e-005	1.3638

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3.7 Architectural Coating - 2022

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	0.6410					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.6431	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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	5.1000e-004	4.3000e-004	5.5600e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.3519	1.3519	4.0000e-005	4.0000e-005	1.3638
Total	5.1000e-004	4.3000e-004	5.5600e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.3519	1.3519	4.0000e-005	4.0000e-005	1.3638

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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	0.0652	0.0822	0.7399	1.6500e-003	0.1710	1.2000e-003	0.1722	0.0456	1.1100e-003	0.0467	0.0000	152.5878	152.5878	9.8900e-003	6.4100e-003	154.7439
Unmitigated	0.0652	0.0822	0.7399	1.6500e-003	0.1710	1.2000e-003	0.1722	0.0456	1.1100e-003	0.0467	0.0000	152.5878	152.5878	9.8900e-003	6.4100e-003	154.7439

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	102.79	102.79	102.79	455,172	455,172
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	102.79	102.79	102.79	455,172	455,172

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
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	453.8275	453.8275	0.0216	2.6200e-003	455.1503
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	467.1627	467.1627	0.0223	2.7000e-003	468.5244
NaturalGas Mitigated	0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	131.3506	131.3506	2.5200e-003	2.4100e-003	132.1312
NaturalGas Unmitigated	0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	131.3506	131.3506	2.5200e-003	2.4100e-003	132.1312

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
General Heavy Industry	2.46142e+006	0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	131.3506	131.3506	2.5200e-003	2.4100e-003	132.1312
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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		0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	131.3506	131.3506	2.5200e-003	2.4100e-003	132.1312

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5.2 Energy by Land Use - NaturalGas

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					
General Heavy Industry	2.46142e+006	0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	131.3506	131.3506	2.5200e-003	2.4100e-003	132.1312
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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		0.0133	0.1207	0.1014	7.2000e-004		9.1700e-003	9.1700e-003		9.1700e-003	9.1700e-003	0.0000	131.3506	131.3506	2.5200e-003	2.4100e-003	132.1312

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.48836e+006	467.1627	0.0223	2.7000e-003	468.5244
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		467.1627	0.0223	2.7000e-003	468.5244

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.44588e+006	453.8275	0.0216	2.6200e-003	455.1503
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		453.8275	0.0216	2.6200e-003	455.1503

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

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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
Category	tons/yr										MT/yr					
Mitigated	0.5622	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003
Unmitigated	0.5622	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003

6.2 Area by SubCategory

Unmitigated

	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	0.0641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4979					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003
Total	0.5622	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003

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6.2 Area by SubCategory

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	0.0641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4979					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003
Total	0.5622	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.4300e-003	4.4300e-003	1.0000e-005	0.0000	4.7200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	111.6663	0.8311	0.0201	138.4358
Unmitigated	139.5829	1.0389	0.0251	173.0448

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	31.6928 / 0	139.5829	1.0389	0.0251	173.0448
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		139.5829	1.0389	0.0251	173.0448

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	25.3543 / 0	111.6663	0.8311	0.0201	138.4358
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		111.6663	0.8311	0.0201	138.4358

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.4226	1.3251	0.0000	55.5510
Unmitigated	34.4963	2.0387	0.0000	85.4631

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	169.94	34.4963	2.0387	0.0000	85.4631
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		34.4963	2.0387	0.0000	85.4631

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	110.461	22.4226	1.3251	0.0000	55.5510
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		22.4226	1.3251	0.0000	55.5510

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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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
