

Appendix B

Air Quality and Greenhouse Gas Emissions

TCV 2050 Project

Draft EIR

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Draft EIR

Appendix B-1-Air Quality and Greenhouse Gas
Emissions Methodology

AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODOLOGY

TVC 2050 Project

Prepared by:

Eyestone Environmental, LLC

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TVC 2050 Project

Air Quality and Greenhouse Gas Emissions Methodology

1. Introduction

Eyestone Environmental has been retained to conduct a comprehensive greenhouse gas (GHG) and criteria air pollutant emissions assessment for the TVC 2050 Project (the “Project”). Emissions during both construction and operation of the Project were quantified. This assessment describes the methodology used to estimate the GHG and air pollutant emissions from existing and Project conditions and describes the methodology used to quantify GHG and air pollutant emission reductions from project design features and mitigation measures.

2. Air Pollutant and Greenhouse Gas Emissions Methodology

The Project would result in direct emissions of criteria pollutants and direct and indirect GHG emissions generated by different types of emissions sources, including:¹

- Direct Emissions:
 - Construction: emissions associated with demolition of existing uses, shoring, excavation, grading, and construction-related equipment and vehicular activity;
 - Area source: emissions associated with consumer products, architectural coatings, and landscape equipment;
 - Energy source (building operations): emissions associated with space heating and cooling, and water heating;

¹ *Direct sources of emissions include Project-related vehicular trips and onsite combustion of fossil fuels (e.g., natural gas, propane, gasoline, and diesel). Whereas, indirect sources of emissions include offsite emissions associated with purchased electricity and embodied energy (e.g., energy used to convey, treat, and distribute water and wastewater)*

- Mobile source: emissions associated with vehicles accessing the project site; and
- Stationary source: emissions associated with stationary equipment (e.g., emergency generators).
- Indirect Emissions:
 - Energy source (building operations): emissions associated with energy consumption, and lighting;
 - Solid Waste: emissions associated with the decomposition of the waste, which generates methane based on the total amount of degradable organic carbon; and
 - Water/Wastewater: emissions associated with energy used to pump, convey, deliver, and treat water.

a. Emission Inventories

Project-related construction and operation emissions were calculated using SCAQMD's recommended California Emissions Estimator Model (CalEEMod). CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered by the SCAQMD to be an accurate and comprehensive tool for quantifying criteria pollutant and GHG impacts from land use projects throughout California.²

CalEEMod utilizes widely accepted models for emission estimates combined with appropriate default data that can be used if site-specific information is not available. These models and default estimates use sources such as the USEPA AP-42 emission factors, CARB's on-road emission model (EMission FACtor model (EMFAC)) and off-road equipment emission model (Off-road Emissions Inventory Program model (OFFROAD)).

² See www.caleemod.com.

(1) Construction

Project buildout may occur in one phase, with a total construction period of approximately 32 months. Construction could begin as soon as 2023 and end as soon as 2026. However, the Project Applicant is seeking a Development Agreement with a term of 20 years, which could extend the full buildout year to approximately 2043, as discussed further below. Nonetheless, the analysis assumes a 2026 buildout year to provide a conservative evaluation. It is estimated that earthwork activities during Project construction would include up to approximately 772,000 cubic yards of cut, potentially 50,000 cubic yards of imported fill, and up to 772,000 cubic yards of export.³ Exported soil materials likely would be disposed of at United Rock Products Landfill in Irwindale. The haul route between the Project Site and Irwindale is anticipated to follow these roadways: Fairfax Avenue south to I-10, east to State Route 60 (SR-60), east to the San Gabriel River Freeway (I-605), and north to Irwindale (approximately 32 miles one-way). Of this export, an estimated 60,000 cubic yards may include hazardous soil materials.⁴ Any hazardous soil materials would be exported to Buttonwillow Landfill in Kern County using the same local roadways, as follows: Fairfax Avenue south to I-10, west to I-405, north to I-5, north to Route 58, and west to Lokern Road (approximately 145 miles one way).

Based on SCAQMD factors, the construction equipment and truck fleet mix will emit less pollution in future years due to more stringent emissions control regulations. As construction air quality impacts are evaluated on a worst-case day, the shorter construction duration (2023–2026) would assume more intensive activities on a daily basis, as well as overlapping activities. Therefore, as a conservative assumption, it was assumed that construction would be completed by 2026. Furthermore, as discussed below, the Specific Plan would provide development flexibility by allowing for exchanges between certain categories of permitted land uses and associated floor areas in order to respond to the future needs and demands of the entertainment industry. The overall square footage of development and earthwork activities would remain the same under any potential buildout scenario. As such, the Project construction emissions would be representative of any permitted development scenario.

Construction activities would generate emissions from off-road equipment usage, on-road vehicle travel (truck hauling, vendor deliveries, and workers commuting), architectural coating, and paving. Each of these source types is discussed in more detail below. The Project's construction emissions were calculated using the SCAQMD recommended CalEEMod (Version 2020.4.0). Please refer to CalEEMod construction

³ All earthwork volumes include estimates for both rough grading and overexcavation.

⁴ Per written correspondence from Geosyntec Consultants dated January 14, 2022.

output files for a complete listing of construction details modeled. CalEEMod default values were used for equipment and vehicle emission factors, equipment load factors and vehicle trip lengths. It should be noted that the maximum daily emissions were predicted values for the worst-case day and do not represent the emissions that would occur for every day of Project construction. The maximum daily emissions were compared to the SCAQMD daily regional numeric indicators. Annual emissions were calculated based on the total number of hours each piece of equipment was used and the total number of vehicular trips (i.e., worker, vendor, and haul) over the duration of construction. In accordance with the SCAQMD's guidance, GHG emissions from construction were amortized over the lifetime of the Project. The SCAQMD defines the lifetime of a project as 30 years.⁵ Therefore, total construction GHG emissions were divided by 30 to determine an annual construction emissions estimate comparable to operational emissions.

(a) Emissions from Construction Equipment

The emission calculations associated with construction equipment are from off-road equipment engine use based on the equipment list and phase length. Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod assumes all of the equipment operates on diesel fuel. Construction equipment emissions vary with engine model years in which newer equipment will emit fewer pollutants. As a conservative assumption, the CalEEMod model uses an emission rate for equipment which represents an average model year for available equipment within the Air Basin. CalEEMod calculates the exhaust emissions based on CARB OFFROAD methodology using the equation presented below.

Construction Off-Road Equipment:

$$\text{Emissions Diesel [lbs]} = \left(\sum_i (EF_i \times \text{Pop}_i \times \text{AvgHP}_i \times \text{Load}_i \times \text{Activity}_i) \right)$$

Where: EF_i = Emission factor from OFFROAD (lbs/hr)
 Pop_i = Population (quantity of same equipment)
 AvgHP_i = Maximum rated average horsepower (hp)
 Load_i = Load Factor (dimensionless)
 Activity_i = Hours of operation (hours)
 i = Summation index

⁵ SCAQMD, *Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans*, 2008.

Fugitive dust emissions from use of off-road equipment were also calculated using CalEEMod based on the types of equipment used during grading activities and based on the amount of import/export from loading or unloading dirt into haul trucks. These methods have been adapted from USEPA's AP-42 method for Western Coal Mining. As recommended by SCAQMD, the fugitive dust emissions from the grading phase are calculated using the methodology described in USEPA AP-42. PM₁₀ and PM_{2.5} emissions from fugitive dust will be controlled by watering the construction site three times a day consistent with SCAQMD Rule 403 and were estimated to be reduced by 61 percent.

(b) Emissions from On-Road Trips

Construction generates on-road vehicle exhaust, evaporative, and dust emissions from personal vehicles for worker commuting, vendor deliveries, and trucks for soil and material hauling. These emissions are based on the number of trips and VMT along with emission factors from EMFAC. The emissions from mobile sources were calculated with the trip rates, trip lengths and emission factors for running from EMFAC as follows:

Construction On-Road Equipment:

Emissions pollutant (lbs) = VMT * EF running, pollutant

Where: VMT = vehicle miles traveled (miles)

EF running,pollutant = emission factor for running emissions (lbs/VMT)

Evaporative emissions, starting and idling emissions in CalEEMod were calculated by multiplying the number of trips times the respective emission factor for each pollutant. Off-road equipment would meet Tier 4 off-road emissions standards and the emission reduction was calculated within CalEEMod.

(c) Emissions from Architectural Coating

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings. CalEEMod calculates the VOC evaporative emissions from application of residential and non-residential surface coatings using the following equation:

Construction Architectural Coating Emissions:

Emissions Architectural Coatings (lbs) = EF_{AC} x F * A_{paint}

Where: EF_{AC} = Emission Factor (lb/sf)
 A_{paint} = Building Surface Area (sf)

The CalEEMod tool assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage. All of the land use information provided by a metric other than square footage will be converted to square footage using the default conversions or user defined equivalence.

F = fraction of surface area [%].

The default values based on SCAQMD methods used in their coating rules are 75 percent for the interior surfaces and 25 percent for the exterior shell. Parking areas are based on 6-percent coverage.

The emission factor (EF) is based on the VOC content of the surface coatings and is calculated estimated using the equation below:

$$EF_{AC} = C_{VOC}/454(g/lb) \times 3.785(L/gal)/180*sf$$

Where: EF = emission factor (lb/sf)
C = VOC content (g/L or gram per liter)

The emission factors for coating categories were calculated using the equation above based on default VOC content from provided by the air districts or CARB's statewide limits in CalEEMod. Architectural coating VOC emission factors are also consistent with SCAQMD Rule 1113 as discussed above.

(d) Emissions from Paving

CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation:

$$\text{Emissions}_{AP} \text{ (lbs)} = EF_{AP} \times A_{\text{parking}}$$

Where: EF = emission factor (lb/acre)
A = area of the parking lot (acre)

Note: The Sacramento Metropolitan Air Quality Management District (SMAQMD) default emission factor is 2.62 lb/acre.

(2) Operation

Similar to construction, the SCAQMD-recommended CalEEMod was used to calculate potential emissions generated by the Project, including area source, energy sources (electricity and natural gas), mobile source, stationary sources (emergency generator), solid waste generation and disposal, and water usage/wastewater generation.

The Specific Plan would provide development flexibility by allowing for exchanges between certain categories of permitted land uses and associated floor areas in order to respond to the future needs and demands of the entertainment industry. Specifically, floor area from any permitted land use category may be exchanged for additional sound stage and production support uses as long as the limitations set forth in the Specific Plan are met. In addition, the total permitted floor area on-site must not exceed 1,874,000 square feet, and the sitewide floor area ratio must not exceed 1.75:1. For more information about the land use exchange component of the Specific Plan, see Section IV.H, Land Use and Planning, of this Draft EIR. The analysis provides the land use mix under the land use exchange program that would generate the highest potential regional operational emissions.

(3) Area Source Emissions

Area source emissions were calculated using the CalEEMod emissions inventory model, which includes consumer products, architectural coatings, and landscape maintenance equipment. Pollutant emissions generated by the Project were calculated using CalEEMod defaults, based upon the land uses that will be included in each project.

Consumer products are chemically formulated products used by household and institutional consumers, including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products; but does not include other paint products, furniture coatings, or architectural coatings. SCAQMD did an evaluation of consumer product use compared to the total square footage of buildings using data from CARB consumer product Emission Inventory. To calculate the VOC emissions from consumer product use, the following equation was used in CalEEMod:

$$\text{Emissions Consumer Products (lbs)} = \text{EF}_{\text{CP}} \times \text{Building Area}$$

Where:

EF_{CP} = pounds of VOC per building square foot

The factor is 1.98×10^{-5} lbs/sf for SCAQMD areas.

Building Area = the total square footage of all buildings including residential square footage

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers. The operational emission methodology from architecture coating is the same as the construction methodology discussed above. All land use buildings are assumed to be repainted at a rate of 10 percent of area per year. This is based on the assumptions used by SCAQMD.

The combustion of fossil fuels to operate landscape equipment such as lawnmowers and trimmers, results in pollutant emissions. The emissions occur on-site and are considered a direct source of pollutant emissions. The emissions for landscaping equipment are based on the size of the land uses, the pollutant emission factors for fuel combustion. Pollutant emissions from landscaping equipment are generally calculated in CalEEMod as follows:

Landscaping Equipment:

$$\text{Landscaping Equipment Emissions [lbs]} = (\sum_i (\text{Units} \times EF_{LE} \times A_{LE})_i)$$

Where: Units = Number of land use units (same land use type) [1,000 sf]

EF_{LE} = Emission factor [grams (g)/1,000 sfday]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

(4) Energy Emissions (Electricity and Natural Gas)

Pollutant emissions are emitted as a result of activities in buildings when electricity and natural gas are used as energy sources. Combustion of any type of fuel emits pollutant emissions directly into the atmosphere; when this occurs in a building, it is a direct emission source associated with that building. Pollutant emissions are also emitted during the generation of electricity from fossil fuels. When electricity is used in a building, the electricity generation typically takes place off-site at the power plant; electricity use in a building generally causes emissions in an indirect manner.

Energy demand emissions were calculated using the CalEEMod emissions inventory model. Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. CalEEMod calculates energy use from systems covered by Title 24 Building Energy Efficiency Standards (e.g., heating, ventilation, and air conditioning [HVAC] system, water heating system, and lighting system); energy use from lighting; and energy use from office equipment, appliances, plug-ins, and other sources not covered by Title 24 or lighting.

CalEEMod energy demand is based on the California Energy Commission (CEC) sponsored California Commercial End Use Survey (CEUS) study.⁶ The data is specific for climate zones and, therefore, Zone 12 was selected for the Project Site based on the ZIP Code tool.

(a) Electricity

Because power plants are existing stationary sources permitted by air districts and/or the USEPA, criteria pollutant emissions are generally associated with the power plants themselves, and not individual buildings or electricity users. Additionally, criteria pollutant emissions from power plants are subject to local, state, and federal control measures, which can be considered to be the maximum feasible level of mitigation for stack emissions. In contrast, GHG emissions from power plants are not subject to stationary source permitting requirements to the same degree as criteria pollutants. As such, GHGs emitted by power plants may be indirectly attributed to individual buildings and electricity users, who have the greatest ability to decrease usage by applying mitigation measures to individual electricity “end uses.” CalEEMod therefore calculates GHG emissions (but not criteria pollutant emissions) from regional power plants associated with building electricity use.

Emissions associated with electricity demand are based on the size of the residential, commercial and retail land uses, the electrical demand factors for the land uses, the emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. Annual electricity GHG emissions in units of MTCO₂e are calculated as follows:

⁶ CEC, *Commercial End-Use Survey*, March 2006.

Electricity:

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_E \times EF_E \times \text{GWP})_i) \div 2,204.62$$

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_E = Electrical demand factor [megawatt-hour (MWh)/1,000 sf/yr]

EF_E = GHG emission factor [pounds per megawatt-hour (MWh)]

GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]

2,204.62 = Conversion factor [pounds/MT]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

GHG emissions from electricity use are directly dependent on the electricity utility provider. The Los Angeles Department of Water and Power (LADWP) provides electric service to the Project Site. Thus, GHG intensity factors for LADWP were selected in CalEEMod. The carbon intensity (lbs/MWh) for electricity generation was calculated for the Project's 2026 buildout year based on LADWP projections for year 2026 (585 lbs of CO_2 per MWh).⁷ LADWP's carbon intensity projections also take into account SB 100 and SB 350 RPS requirements for renewable energy.

(b) Natural Gas

The direct source emissions associated with natural gas combustion are based on the size of the land uses and the natural gas combustion factors for the land uses in units of million British thermal units (MMBtu). Natural gas emissions are calculated in CalEEMod as follows:

⁷ *The Project Applicant is seeking a Development Agreement with a term of 20 years, which could extend the full buildout year to approximately 2043. The analysis assumes a 2026 buildout year to provide a conservative analysis.*

Natural Gas:

$$\text{Natural Gas Emissions (lbs)} = (\sum_i (\text{Units} \times D_{\text{NG}} \times EF_{\text{NG}})_i)$$

Where: Units = Number of land use units (same land use type) [1,000 sf]
D_{NG} = Natural Gas combustion factor [MMBtu/1,000 sf]
EF_{NG} = Natural Gas combustion factor [pounds/MMBtu]
/ = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

(5) Mobile Source Emissions

Mobile-source emissions were calculated using the CalEEMod emissions inventory model. CalEEMod calculates the emissions associated with on-road mobile sources associated with residents, employees, visitors, and delivery vehicles visiting the Project Site based on the number of daily trips generated and vehicle miles traveled (VMT). The Traffic Study prepared by Gibson Transportation Consulting had calculated Project VMT which was entered into CalEEMod in calculating Project mobile source emissions.

Modeling was also conducted using the Los Angeles County vehicle fleet mix for all vehicle types as provided in EMFAC2014.

Mobile source emissions were generally calculated in CalEEMod as follows:

Mobile:

$$\text{Mobile Emissions [lbs]} = (\sum_i (\text{Units} \times \text{ADT} \times D_{\text{TRIP}} \times EF_i))$$

Where: Units = Number of vehicles (same vehicle model year and class)
ADT = Average daily trip rate [trips/day]
D_{TRIP} = Trip distance [miles/trip]
EF = Pollutant emission factor [pounds per mile]
i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

Mobile source operational emissions were calculated based on the Project VMT estimates provided by Gibson Transportation Consulting.⁸ The Los Angeles Department of Transportation (LADOT) VMT Calculator was used to calculate peak daily trip estimates.

Previously, trip generation for land uses was calculated based on survey data collected by the Institute of Transportation Engineers (ITE). However, these ITE trip generation rates were based on data collected at suburban, single-use, free standing sites, which may not be representative of urban mixed-use environments. Beginning in 2019, the USEPA has sponsored a study to collect travel survey data from mixed-use developments in order provide a more representative trip generation rate for multi-use sites. Results of the USEPA survey indicate that trip generation and VMT are affected by factors such as resident and job density, availability of transit, and accessibility of biking and walking paths. Based on these factors, the USEPA has developed equations known as the EPA Mixed-Use Development (MXD) model to calculate trip reductions for multi-use developments.⁹ The LADOT VMT Calculator incorporates the USEPA MXD model and accounts for project features such as increased density and proximity to transit, which would reduce VMT and associated fuel usage in comparison to free-standing sites.

The Project design includes characteristics that would reduce trips and VMT as compared to a standard project within the air basin as measured by the air quality model (CalEEMod). While these Project characteristics primarily reduce greenhouse gas emissions, they would also reduce criteria air pollutants discussed herein. These relative reductions in vehicle trips and VMT from a standard project within the air basin help quantify the criteria air pollutant emissions reductions achieved by locating the Project in any infill area that promotes alternative modes of transportation.

(6) Stationary Source (Emergency Generator Emissions)

Emissions of GHGs associated with use of emergency generators were calculated using the ProActive Consulting Group, SCAQMD Rule 1472 Compliance Plan for Television City Productions, LLC (July 2020) and supplemented with CalEEMod default data where applicable. CalEEMod default emission factors are based on Table 3.4-1 (Gaseous Emission Factors for Large Stationary Diesel Engines) from EPA's AP-42: Compilation of Air Pollutant Emission Factors. The emissions are based on the horsepower rating of the diesel generator and the number of hours operated per year for

⁸ *Transportation Assessment for the Television City 2050 Specific Plan Project. Gibson Transportation Consulting, October 2021*

⁹ *Environmental Protection Agency, Mixed-Use Trip Generation Model. www.epa.gov/smartgrowth/mixed-use-trip-generation-model. Accessed December 16, 2019.*

testing purposes. Annual emergency generator GHG emissions in units of MTCO₂e were calculated as follows:

Emergency Generator:

$$\text{Emissions [lbs]} = (\text{Total HP} \times \text{LF} \times \text{HR} \times \text{EF})$$

Where: Total HP = Total horsepower of emergency generators (Hp)

LF = Load Factor (CalEEMod default of 0.73)

HR = Hours Operated per Year

EF = AP-42 Emission Factor of 1.16 lb/hp-hr)

(7) Solid Waste Emissions

The generation of municipal solid waste (MSW) from day-to-day operational activities generally consists of product packaging, grass clippings, furniture, clothing, bottles, food scraps, newspapers, plastic, and other items routinely disposed of in trash bins. A portion of the MSW is diverted to waste recycling and reclamation facilities. Waste that is not diverted is usually sent to local landfills for disposal. MSW that is disposed in landfills results in GHG emissions of CO₂ and CH₄ from the decomposition of the waste that occurs over the span of many years.

Emissions of GHGs associated with solid waste disposal were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the retail and restaurant land uses, the waste disposal rate for the land uses, the waste diversion rate, the GHG emission factors for solid waste decomposition, and the GWP values for the GHGs emitted. Annual waste disposal GHG emissions in units of MTCO₂e were calculated in CalEEMod as follows:

Solid Waste:

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_{\text{MSW}} \times EF_{\text{MSW}} \times \text{GWP})_i) \div 1.1023$$

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_{MSW} = Waste disposal rate [tons/1,000 sf/yr]

EF_{MSW} = GHG emission factor [tons/ton waste]

GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]

1.1023 = Conversion factor [tons/MT]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod allows the input of several variables to quantify solid waste emissions. The model requires the amount of waste disposed, which is the product of the waste disposal rate times the land use units. CalEEMod default annual solid waste disposal rates used. The GHG emission factors, particularly for CH_4 , depend on characteristics of the landfill, such as the presence of a landfill gas capture system and subsequent flaring or energy recovery. The default values, as provided in CalEEMod, for landfill gas capture (e.g., no capture, flaring, energy recovery), which are statewide averages, were used in this assessment. The Project includes a 76.4-percent recycling/diversion rate currently achieved within the City.¹⁰

(8) Water Usage and Wastewater Generation Emissions

GHG emissions are related to the energy used to convey, treat, and distribute water and wastewater. Thus, these emissions are generally indirect emissions from the production of electricity to power these systems. Three processes are necessary to supply potable water and include: (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, energy is used as the wastewater is treated and reused as reclaimed water.

Emissions related to water usage and wastewater generation were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the

¹⁰ City of Los Angeles, *Sustainable City pLAN, Waste & Landfills*, <http://plan.lamayor.org/portfolio/waste-landfills-3rd>, accessed February 21, 2019.

land uses, the water demand factors, the electrical intensity factors for water supply, treatment, and distribution and for wastewater treatment, the GHG emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. CalEEMod default annual water demand and wastewater rates were used. GHG emissions due to electricity are calculated in CalEEMod as follows for indoor and outdoor water demand:

Water Supply, Treatment, and Distribution; Wastewater Treatment (electricity):

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_w \times (\text{El}_w \div 1,000) \times \text{EF}_w \times \text{GWP})_i) \div 2,204.62$$

| | | |
|--------|---------------|--|
| Where: | Units | = Number of land use units (same land use type) [1,000 sf] |
| | D_w | = Water demand factor [million gallons (Mgal)/1,000 sf/yr] |
| | El_w | = Electricity intensity factor [kilowatt-hours (kWh)/Mgal] |
| | 1,000 | = Conversion factor [kWh/MWh] |
| | EF_w | = GHG emission factor [pounds/MWh] |
| | GWP | = Global warming potential [$\text{CO}_2 = 1$, $\text{CH}_4 = 21$, $\text{N}_2\text{O} = 310$] |
| | 2,205 | = Conversion factor [pounds/MT] |
| | i | = Summation index |

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod provides options to account for the use of water saving features such as the use of low-flow water fixtures (e.g., low-flow faucets, low-flow toilets). The same electricity GHG emissions factors discussed above were used for water and wastewater energy usage.

b. Project Impacts with Long-Term Buildout

While Project buildout is anticipated in 2026, the Project Applicant is seeking a Development Agreement with a term of 20 years, which could extend the full buildout year to approximately 2043. Potential impacts associated with a long-term buildout were evaluated as follows.

From a construction standpoint, the overall amount of demolition, excavation/export, and square footage of building construction would not change. Thus, the use and types of equipment required for construction would be similar to that associated with a 2026 buildout. However, a long-term buildout would benefit from future improvements in

equipment efficiencies, including more stringent regulatory requirements, that would reduce future air emissions during Project construction. Specifically, as previously discussed, based on SCAQMD factors, the construction equipment and truck fleet mix would emit less pollution in future years due to more stringent emissions control regulations. As construction air quality impacts are evaluated on a worst-case day, the shorter construction duration (2023–2026) would assume more intensive activities on a daily basis, as well as overlapping activities and construction phases. Therefore, as a conservative assumption, it was assumed that construction would be completed by 2026.

From an operational standpoint, a long-term buildout would also result in an overall reduction in operational emissions due to more stringent requirements in the future. As an example, Title 24 requirements apply to projects based on the date when a building permit is issued. Thus, buildings constructed at a later date would be required to comply with subsequent versions of Title 24, which typically include increasingly stringent energy conservation requirements and associated reductions in energy use.¹¹ In addition, Governor Gavin Newsom signed Executive Order No. N-79-20 on September 23, 2020, which will phase out sales of new gas-powered passenger cars in California by 2035, with an additional 10-year transition period for heavy vehicles. With more stringent fuel economy requirements in subsequent years, fuel usage associated with the Project would similarly decrease. As such, a long-term buildout would reduce the Project's operational emissions.

Extending the full buildout year to approximately 2043 also has the potential to result in concurrent construction and operational activities. Analysis of these concurrent activities were considered in five-year increments, and construction activities were conservatively assumed to occur at approximately 50 percent of the maximum daily intensity as would occur during the shorter construction duration (2023-2026).¹²

¹¹ For example, single-family homes built with the 2019 Title 24 Standards are estimated to use approximately seven percent less energy due to energy efficiency measures versus those built under the 2016 standards. Once the mandated rooftop solar electricity generation is factored in, homes built under the 2019 standards will use about 53 percent less energy than those under the 2016 standards. Nonresidential buildings are projected to use approximately 30 percent less energy than 2016 standards due mainly to lighting upgrades.

¹² For example, Project buildout by 2026 would require two separate excavation operations. With a long-term buildout and operation of some facilities on-site while construction is occurring, only a single excavation operation could be accommodated on-site, thus reducing the excavation activities and associated haul truck trips by half. Other construction activities such as building construction and finishing would likely occur at a further reduced level.

TCV 2050 Project

Draft EIR

Appendix B-2-Air Quality Worksheets and Modeling Output Files

- Appendix B-2: Air Quality Worksheets and Modeling Output Files
 - Appendix B-2.1: Summary of Air Pollutant Emissions
 - 2026 Buildout
 - Concurrent Construction and Operations (2043 Buildout)
 - Appendix B-2.2: CalEEMod Outputs (2026 Buildout)
 - Project Construction
 - Project Construction Localized
 - Existing (Year 2021)
 - Existing (Buildout Year 2026)
 - Project Operations (Buildout Year 2026)
 - Project Operations (Max Electricity)
 - Project Operations (VMT and Natural Gas)
 - Appendix B-2.3: CalEEMod Outputs (Long Term Buildout)
 - Project Construction (2026 Start)
 - Project Construction (2030 Start)
 - Project Construction (2035 Start)
 - Project Construction (2040 Start)
 - Existing (Buildout 2030)
 - Existing (Buildout 2035)
 - Existing (Buildout 2040)
 - Existing (Buildout 2043)
 - Project (Buildout 2030)
 - Project (Buildout 2035)
 - Project (Buildout 2040)
 - Project (Buildout 2043)
 - Appendix B-2.4: CO Hotspot Analysis

| AQ SUMMARY OF EMISSIONS | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|-----------------|-----------------|-------|------------------|-------------------|--|-----------------|-----------------|-------|------------------|-------------------|-------------------|--|-----------------|-------|------------------|-------------------|-------------------|--|
| Operation Emissions (Without Mitigation Measures) | | | | | | | Operation Emissions (Maximum VMT/Natural Gas Scenario) | | | | | | | Operation Emissions (Maximum Electricity Scenario) | | | | | | |
| Regional Existing | | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | |
| | Area | 17 | <1 | <1 | <1 | <1 | <1 | 17 | <1 | <1 | <1 | <1 | <1 | 17 | <1 | <1 | <1 | <1 | <1 | |
| | Energy | <1 | 2 | 1 | <1 | <1 | <1 | <1 | 2 | 1 | <1 | <1 | <1 | <1 | 2 | 1 | <1 | <1 | <1 | |
| | Mobile | 11 | 14 | 111 | <1 | 22 | 6 | 11 | 14 | 111 | <1 | 22 | 6 | 11 | 14 | 111 | <1 | 22 | 6 | |
| CalEEMod Total | | 29 | 16 | 112 | <1 | 22 | 6 | 29 | 16 | 112 | <1 | 22 | 6 | 29 | 16 | 112 | <1 | 22 | 6 | |
| | Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 | 9 | <1 | <1 | <1 | 1 | 1 | 9 | <1 | <1 | <1 | 1 | 1 | |
| | Emergency Generator | <1 | 8 | 4 | <1 | <1 | <1 | <1 | 8 | 4 | <1 | <1 | <1 | <1 | 8 | 4 | <1 | <1 | <1 | |
| | Total | 38 | 24 | 116 | <1 | 23 | 8 | 38 | 24 | 116 | <1 | 23 | 8 | 38 | 24 | 116 | <1 | 23 | 8 | |
| Regional Existing (Buildout Year) | | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | |
| | Area | 17 | <1 | <1 | <1 | <1 | <1 | 17 | <1 | <1 | <1 | <1 | <1 | 17 | <1 | <1 | <1 | <1 | <1 | |
| | Energy | <1 | 2 | 1 | <1 | <1 | <1 | <1 | 2 | 1 | <1 | <1 | <1 | <1 | 2 | 1 | <1 | <1 | <1 | |
| | Mobile | 9 | 9 | 88 | <1 | 22 | 6 | 9 | 9 | 88 | <1 | 22 | 6 | 9 | 9 | 88 | <1 | 22 | 6 | |
| CalEEMod Total | | 27 | 11 | 89 | <1 | 22 | 6 | 27 | 11 | 89 | <1 | 22 | 6 | 27 | 11 | 89 | <1 | 22 | 6 | |
| | Emergency Generator | <1 | 8 | 4 | <1 | <1 | <1 | <1 | 8 | 4 | <1 | <1 | <1 | <1 | 8 | 4 | <1 | <1 | <1 | |
| | Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 | 9 | <1 | <1 | <1 | 1 | 1 | 9 | <1 | <1 | <1 | 1 | 1 | |
| | Total | 36 | 19 | 93 | <1 | 23 | 8 | 36 | 19 | 93 | <1 | 23 | 8 | 36 | 19 | 93 | <1 | 23 | 8 | |
| Regional Buildout (Buildout Year) With PDFs | | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | |
| | Area | 43 | <1 | <1 | <1 | <1 | <1 | 43 | <1 | <1 | <1 | <1 | <1 | 43 | <1 | <1 | <1 | <1 | <1 | |
| | Energy | <1 | 5 | 4 | <1 | <1 | <1 | <1 | 5 | 5 | <1 | <1 | <1 | <1 | 4 | 4 | <1 | <1 | <1 | |
| | Mobile | 27 | 27 | 253 | <1 | 61 | 17 | 30 | 30 | 288 | <1 | 69 | 19 | 26 | 26 | 244 | <1 | 60 | 16 | |
| CalEEMod Total | | 71 | 32 | 258 | <1 | 62 | 17 | 74 | 36 | 294 | <1 | 70 | 20 | 70 | 31 | 249 | <1 | 60 | 16 | |
| | Emergency Generator | 1 | 6 | 3 | <1 | <1 | <1 | 1 | 6 | 3 | <1 | <1 | <1 | 1 | 6 | 3 | <1 | <1 | <1 | |
| | Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 | 9 | 0 | 0 | 0 | 1 | 1 | 9 | 0 | 0 | 0 | 1 | 1 | |
| | Total | 80 | 39 | 261 | <1 | 63 | 19 | 84 | 42 | 297 | <1 | 71 | 21 | 79 | 37 | 252 | <1 | 61 | 18 | |
| Project Regional (Buildout Less Existing (Buildout Year)) With PDFs | | | | | | | | | | | | | | | | | | | | |
| | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | ROG | NO _x | CO | SO2 | PM ₁₀ | PM _{2.5} | | |
| | Area | 26 | <1 | <1 | <1 | <1 | 26 | <1 | <1 | <1 | <1 | <1 | 26 | <1 | <1 | <1 | <1 | <1 | | |
| | Energy | <1 | 4 | 3 | <1 | <1 | <1 | 4 | 3 | <1 | <1 | <1 | <1 | 3 | 2 | <1 | <1 | <1 | | |
| | Mobile | 18 | 18 | 165 | <1 | 40 | 11 | 21 | 21 | 200 | <1 | 48 | 13 | 17 | 17 | 156 | <1 | 38 | 10 | |
| CalEEMod Total | | 44 | 21 | 168 | <1 | 40 | 11 | 47 | 25 | 204 | <1 | 48 | 14 | 43 | 20 | 159 | <1 | 38 | 10 | |
| | Emergency Generator | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| | Spray Booths | <1 | 0 | 0 | 0 | <1 | <1 | <1 | 0 | 0 | 0 | <1 | <1 | <1 | 0 | 0 | 0 | <1 | <1 | |
| | Total | 45 | 20 | 168 | <1 | 40 | 11 | 48 | 23 | 204 | <1 | 48 | 13 | 44 | 18 | 159 | <1 | 38 | 10 | |
| | Threshold | 55 | 55 | 550 | 150 | 150 | 55 | 55 | 55 | 550 | 150 | 150 | 55 | 55 | 55 | 550 | 150 | 150 | 55 | |
| | Difference | (10) | (35) | (382) | (150) | (110) | (44) | (7) | (32) | (346) | (150) | (102) | (42) | (11) | (37) | (391) | (150) | (112) | (45) | |
| | Impact | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | |
| Project Localized (Buildout Less Baseline (Buildout Year)) | | | | | | | Project Localized (Buildout Less Baseline (Buildout Year)) | | | | | | | Project Localized (Buildout Less Baseline (Buildout Year)) | | | | | | |
| | Onsite Total | 1.9 | 3.0 | | 0.2 | 0.2 | 2.2 | 3.2 | | 0.2 | 0.2 | | 1.1 | 2.3 | | 0.2 | 0.2 | | 0.2 | |
| | Threshold | 221 | 1531 | | 3 | 2.0 | 221 | 1531 | | 3 | 2.0 | | 221 | 1531 | | 3.0 | 2.0 | | 2.0 | |
| | Difference | (219) | (1528) | | (3) | (2) | (219) | (1528) | | (3) | (2) | | (220) | (1529) | | (3) | (2) | | (2) | |
| | Impact | No | No | | No | No | No | No | No | No | No | | No | No | | No | No | | No | |

Spray Booths: Represents existing emissions presented to SCAQMD in TVC's 2019 Annual Emissions Report. Existing paint spray booths will be removed as part of the Project. Any new paint spray booths will comply with SCAQMD BACT requirements and permit conditions.

| AQ SUMMARY OF EMISSIONS | | | | | | |
|---|-----------------|-----------------|-----------------|------------------|-------------------|-------------------|
| Operation Emissions (Without Mitigation Measures) | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| Area | 17 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | 2 | 1 | <1 | <1 | <1 |
| Mobile | 9 | 9 | 88 | <1 | 22 | 6 |
| CalEEMod Total | 27 | 11 | 89 | <1 | 22 | 6 |
| Emergency Generator | <1 | 8 | 4 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Existing 2026 | 36 | 19 | 93 | <1 | 23 | 8 |
| CalEEMod Total | 26 | 10 | 81 | <1 | 22 | 6 |
| Emergency Generator | <1 | 8 | 4 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Existing 2030 | 35 | 18 | 85 | <1 | 23 | 8 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| CalEEMod Total | 25 | 9 | 77 | <1 | 22 | 6 |
| Emergency Generator | <1 | 8 | 4 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Existing 2035 | 34 | 17 | 80 | <1 | 23 | 8 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| CalEEMod Total | 25 | 9 | 75 | <1 | 22 | 6 |
| Emergency Generator | <1 | 8 | 4 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Existing 2040 | 34 | 17 | 78 | <1 | 23 | 8 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| CalEEMod Total | 25 | 9 | 74 | <1 | 22 | 6 |
| Emergency Generator | <1 | 8 | 4 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Existing 2045 | 34 | 17 | 78 | <1 | 23 | 8 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| Area | 43 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | 5 | 4 | <1 | <1 | <1 |
| Mobile | 27 | 27 | 253 | <1 | 61 | 17 |
| CalEEMod Total | 71 | 32 | 258 | <1 | 62 | 17 |
| Emergency Generator | 1 | 6 | 3 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Buildout 2026 | 80 | 39 | 261 | <1 | 63 | 19 |
| CalEEMod Total | 68 | 29 | 235 | <1 | 62 | 17 |
| Emergency Generator | 1 | 6 | 3 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Buildout 2030 | 78 | 35 | 239 | <1 | 63 | 19 |
| CalEEMod Total | 66 | 26 | 222 | <1 | 62 | 17 |
| Emergency Generator | 1 | 6 | 3 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Buildout 2035 | 76 | 33 | 225 | <1 | 63 | 18 |
| CalEEMod Total | 66 | 25 | 217 | <1 | 62 | 17 |
| Emergency Generator | 1 | 6 | 3 | <1 | <1 | <1 |
| Spray Booths | 9 | <1 | <1 | <1 | 1 | 1 |
| Regional Buildout 2040 | 76 | 32 | 220 | <1 | 63 | 18 |
| CalEEMod Total | 66 | 26 | 215 | <1 | 62 | 17 |
| Emergency Generator | 1 | 6 | 3 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| Regional Buildout 2045 | 75 | 32 | 218 | <1 | 63 | 18 |
| Project Regional Operational Emissions | | | | | | |
| Assumes 100% existing is removed for each of the different milestones | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2026 | 45 | 20 | 168 | <1 | 40 | 11 |
| 2030 | 43 | 17 | 153 | <1 | 40 | 11 |
| 2035 | 42 | 16 | 145 | <1 | 40 | 11 |
| 2040 | 42 | 15 | 142 | <1 | 40 | 11 |
| 2045 | 42 | 15 | 141 | <1 | 40 | 11 |
| Construction 100% Intensity | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2023-2026 Max | 69 | 205 | 193 | 1 | 45 | 15 |
| 2026-2029 Max | 68 | 202 | 191 | 1 | 45 | 15 |
| 2030-2033 Max | 66 | 193 | 190 | 1 | 45 | 15 |
| 2035-2038 Max | 65 | 186 | 190 | <1 | 45 | 15 |
| 2040-2043 Max | 64 | 183 | 190 | <1 | 45 | 15 |

ROG represents architectural Coating/Finishing Phase; All other pollutants represent Excavation/Foundations Phase

| Project Localized Operational Emissions | | | | | | |
|---|-----|-----------------|-----|-----------------|------------------|-------------------|
| Assumes 100% existing is removed for each of the different milestones | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2026 | 27 | 2 | 3 | <1 | <1 | <1 |
| 2030 | 27 | 2 | 3 | <1 | <1 | <1 |
| 2035 | 27 | 2 | 3 | <1 | <1 | <1 |
| 2040 | 27 | 2 | 3 | <1 | <1 | <1 |
| 2045 | 27 | 2 | 3 | <1 | <1 | <1 |
| Construction 100% Intensity Localized | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2023-2026 Max | 60 | 15 | 132 | <1 | 11 | 5 |
| 2026-2029 Max | 60 | 14 | 132 | <1 | 11 | 5 |
| 2030-2033 Max | 60 | 14 | 132 | <1 | 11 | 5 |
| 2035-2038 Max | 60 | 14 | 131 | <1 | 11 | 5 |
| 2040-2043 Max | 60 | 14 | 131 | <1 | 11 | 5 |

ROG represents architectural Coating/Finishing Phase; All other pollutants represent Excavation/Foundations Phase

| AQ SUMMARY OF EMISSIONS | | | | | | |
|---|-------------------------|-----------------|-----------------|------------------|-------------------|-------------------|
| Operation Emissions (Without Mitigation Measures) | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| Area | 14 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | 1 | 1 | <1 | <1 | <1 |
| Mobile | 8 | 8 | 70 | <1 | 17 | 5 |
| CalEEMod Total | 21 | 9 | 72 | <1 | 17 | 5 |
| Emergency Generator | <1 | 7 | 3 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| 80% Existing Remaining 2026 | 30 | 15 | 75 | <1 | 19 | 6 |
| CalEEMod Total | 15 | 6 | 49 | <1 | 13 | 4 |
| Emergency Generator | <1 | 5 | 2 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| 60% Existing Remaining 2030 | 24 | 11 | 51 | <1 | 15 | 5 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| CalEEMod Total | 10 | 4 | 31 | <1 | 9 | 2 |
| Emergency Generator | <1 | 3 | 1 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| 40% Existing Remaining 2035 | 19 | 7 | 32 | <1 | 10 | 4 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| CalEEMod Total | 5 | 2 | 15 | <1 | 4 | 1 |
| Emergency Generator | <1 | 2 | <1 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| 20% Existing Remaining 2040 | 14 | 3 | 16 | <1 | 6 | 3 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| CalEEMod Total | <1 | <1 | <1 | <1 | <1 | <1 |
| Emergency Generator | <1 | <1 | <1 | <1 | <1 | <1 |
| Spray Booths | 9 | 0 | 0 | 0 | 1 | 1 |
| 0% Existing Remaining 2045 | 9 | <1 | <1 | <1 | 1 | 1 |
| ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} | |
| Area | 9 | <1 | <1 | <1 | <1 | <1 |
| Energy | <1 | 1 | <1 | <1 | <1 | <1 |
| Mobile | 5 | 5 | 51 | <1 | 12 | 3 |
| CalEEMod Total | 14 | 6 | 52 | <1 | 12 | 3 |
| Emergency Generator | <1 | 1 | <1 | <1 | <1 | <1 |
| Spray Booths | No change in total use. | | | | | |
| 20% New 2026 | 14 | 8 | 52 | <1 | 12 | 3 |
| CalEEMod Total | 27 | 12 | 94 | <1 | 25 | 7 |
| Emergency Generator | <1 | 3 | 1 | <1 | <1 | <1 |
| Spray Booths | No change in total use. | | | | | |
| 40% New 2030 | 28 | 14 | 95 | <1 | 25 | 7 |
| CalEEMod Total | 40 | 16 | 133 | <1 | 37 | 10 |
| Emergency Generator | <1 | 4 | 2 | <1 | <1 | <1 |
| Spray Booths | No change in total use. | | | | | |
| 60% New 2035 | 41 | 20 | 135 | <1 | 37 | 10 |
| CalEEMod Total | 53 | 20 | 173 | <1 | 49 | 14 |
| Emergency Generator | 1 | 5 | 2 | <1 | <1 | <1 |
| Spray Booths | No change in total use. | | | | | |
| 80% New 2040 | 54 | 26 | 176 | <1 | 50 | 14 |
| CalEEMod Total | 66 | 26 | 215 | <1 | 62 | 17 |
| Emergency Generator | 1 | 6 | 3 | <1 | <1 | <1 |
| Spray Booths | No change in total use. | | | | | |
| 100% New 2045 | 67 | 32 | 218 | <1 | 62 | 17 |
| Project Regional Operational Emissions | | | | | | |
| Assumes percentage of existing uses are removed with buildout % | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2026 | 31 | 19 | 108 | <1 | 26 | 7 |
| 2030 | 33 | 18 | 112 | <1 | 29 | 8 |
| 2035 | 36 | 16 | 119 | <1 | 33 | 9 |
| 2040 | 38 | 15 | 129 | <1 | 36 | 10 |
| 2045 | 42 | 15 | 141 | <1 | 40 | 11 |

| 50% Maximum Construction Intensity with Operational Emissions for Milestone Years | | | | | | |
|---|-----------|-----------------|------------|-----------------|------------------|-------------------|
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2026 | 64 | 120 | 204 | <1 | 48 | 15 |
| 2030 | 66 | 114 | 208 | <1 | 52 | 16 |
| 2035 | 68 | 109 | 214 | <1 | 55 | 16 |
| 2040 | 71 | 107 | 224 | <1 | 59 | 17 |
| 2045 | 71 | 107 | 224 | <1 | 59 | 17 |
| Max | 71 | 120 | 224 | 1 | 59 | 17 |
| Threshold | 55 | 55 | 550 | 150 | 150 | 55 |
| Difference | 16 | 65 | (326) | (149) | (91) | (38) |
| Impact | Yes | Yes | No | No | No | No |

| Project Localized Operational Emissions | | | | | | |
|---|-----|-----------------|----|-----------------|------------------|-------------------|
| Assumes percentage of existing uses are removed with buildout % | | | | | | |
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2026 | 20 | 8 | 5 | <1 | <1 | <1 |
| 2030 | 20 | 6 | 4 | <1 | <1 | <1 |
| 2035 | 20 | 4 | 3 | <1 | <1 | <1 |
| 2040 | 20 | 2 | 2 | <1 | <1 | <1 |
| 2045 | 20 | <1 | 1 | <1 | <1 | <1 |

| 50% Maximum Construction Intensity with Operational Emissions for Milestone Years | | | | | | |
|---|-----------|-----------------|-----------|-----------------|------------------|-------------------|
| | ROG | NO _x | CO | SO ₂ | PM ₁₀ | PM _{2.5} |
| 2026 | 50 | 15 | 71 | <1 | 6 | 3 |
| 2030 | 50 | 13 | 70 | <1 | 6 | 3 |
| 2035 | 50 | 11 | 69 | <1 | 6 | 3 |
| 2040 | 50 | 9 | 68 | <1 | 6 | 3 |
| 2045 | 20 | <1 | 1 | <1 | <1 | <1 |
| Max | 50 | 15 | 71 | 0 | 6 | 3 |
| Threshold | NA | 221 | 1531 | NA | 16 | 8 |
| Difference | (206) | (1460) | (10) | (5) | (5) | (5) |
| Impact | No | No | No | No | No | No |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Construction

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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| Industrial Park | 454.00 | 1000sqft | 10.42 | 454,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2027 |
| 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 -
- Construction Phase - Project Specific Construction Schedule
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Trips and VMT - Site Specific Trips; Hauling includes 8,572 trips associated with a conservative 60,000 cy of contaminated soil export (Buttonwillow Landfill)

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 Equipment Mitigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 65.00 |
| tblConstructionPhase | NumDays | 155.00 | 185.00 |
| tblConstructionPhase | NumDays | 60.00 | 5.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 235.00 |
| tblConstructionPhase | NumDays | 110.00 | 304.00 |
| tblConstructionPhase | NumDays | 110.00 | 21.00 |
| tblGrading | MaterialExported | 0.00 | 772,000.00 |
| tblGrading | MaterialImported | 0.00 | 50,000.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|---------------------|----------------------------|------------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 145.00 |
| tblTripsAndVMT | HaulingTripNumber | 2,255.00 | 0.00 |
| tblTripsAndVMT | HaulingTripNumber | 102,750.00 | 8,572.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 80.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 640.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 1,000.00 |
| tblTripsAndVMT | VendorTripNumber | 655.00 | 100.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 60.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 68.00 | 490.00 |
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 100.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|----------------|------------------|----------|----------|
| tblTripsAndVMT | WorkerTripNumber | 1,536.00 | 1,350.00 |
| tblTripsAndVMT | WorkerTripNumber | 307.00 | 1,480.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |

2.0 Emissions Summary**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 | | | | | |
| 2023 | 15.6372 | 295.7990 | 162.5579 | 1.1388 | 60.2932 | 5.9572 | 66.2504 | 20.1997 | 5.5979 | 25.7976 | | | | | | 126,331.24 21 |
| 2024 | 11.5374 | 246.3671 | 124.5751 | 0.9861 | 49.4273 | 4.2437 | 53.6710 | 18.1526 | 3.9906 | 22.1432 | | | | | | 110,046.16 84 |
| 2025 | 71.8502 | 44.3659 | 132.2215 | 0.3538 | 32.6576 | 1.7022 | 34.3598 | 8.6843 | 1.6228 | 10.3071 | | | | | | 36,611.031 2 |
| 2026 | 65.9154 | 23.6582 | 70.4603 | 0.1882 | 18.1091 | 0.9852 | 19.0942 | 4.8128 | 0.9399 | 5.7527 | | | | | | 19,593.545 4 |
| Maximum | 71.8502 | 295.7990 | 162.5579 | 1.1388 | 60.2932 | 5.9572 | 66.2504 | 20.1997 | 5.5979 | 25.7976 | | | | | | 126,331.24 21 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------------|
| 2023 | 7.5776 | 204.7323 | 192.7191 | 1.1388 | 43.4153 | 1.7287 | 45.1439 | 13.2973 | 1.6728 | 14.9700 | | | | | | 126,331.24 21 |
| 2024 | 6.1900 | 185.4312 | 149.5334 | 0.9861 | 37.1300 | 1.5207 | 38.6507 | 11.9437 | 1.4695 | 13.4133 | | | | | | 110,046.16 83 |
| 2025 | 69.0234 | 18.1106 | 136.1853 | 0.3538 | 32.6576 | 0.3929 | 33.0505 | 8.6843 | 0.3776 | 9.0619 | | | | | | 36,611.031 1 |
| 2026 | 64.1593 | 9.6759 | 71.7505 | 0.1882 | 18.1091 | 0.1663 | 18.2753 | 4.8128 | 0.1583 | 4.9711 | | | | | | 19,593.545 4 |
| Maximum | 69.0234 | 204.7323 | 192.7191 | 1.1388 | 43.4153 | 1.7287 | 45.1439 | 13.2973 | 1.6728 | 14.9700 | | | | | | 126,331.24 21 |

| | 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 | 10.91 | 31.50 | -12.33 | 0.00 | 18.18 | 70.45 | 22.06 | 25.29 | 69.73 | 33.73 | 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 | 10/1/2023 | 12/31/2023 | 5 | 65 | |
| 2 | Excavation/Foundations | Grading | 10/16/2023 | 6/30/2024 | 5 | 185 | |
| 3 | Mat Foundation | Site Preparation | 7/1/2024 | 7/7/2024 | 5 | 5 | |
| 4 | Structure/Enclosure | Building Construction | 7/8/2024 | 5/31/2025 | 5 | 235 | |
| 5 | Architectural Coating/Finishing | Architectural Coating | 4/1/2025 | 5/31/2026 | 5 | 304 | |
| 6 | Paving/Landscape | Paving | 5/1/2026 | 5/31/2026 | 5 | 21 | |

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 277.5****Acres of Paving: 47.7****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,811,000; Non-Residential Outdoor: 937,000; Striped Parking Area: 127,200**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 4 | 8.00 | 158 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Bore/Drill Rigs | 6 | 8.00 | 221 | 0.50 |
| Excavation/Foundations | Cranes | 2 | 8.00 | 231 | 0.29 |
| Excavation/Foundations | Excavators | 3 | 8.00 | 158 | 0.38 |
| Excavation/Foundations | Graders | 0 | 8.00 | 187 | 0.41 |
| Excavation/Foundations | Other Construction Equipment | 2 | 8.00 | 172 | 0.42 |
| Excavation/Foundations | Pumps | 4 | 8.00 | 84 | 0.74 |
| Excavation/Foundations | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Rubber Tired Loaders | 2 | 8.00 | 203 | 0.36 |
| Excavation/Foundations | Scrapers | 0 | 8.00 | 367 | 0.48 |
| Excavation/Foundations | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Excavation/Foundations | Welders | 2 | 8.00 | 46 | 0.45 |
| Mat Foundation | Plate Compactors | 6 | 8.00 | 8 | 0.43 |
| Mat Foundation | Pumps | 6 | 8.00 | 84 | 0.74 |
| Mat Foundation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Mat Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Cranes | 0 | 7.00 | 231 | 0.29 |
| Structure/Enclosure | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Structure/Enclosure | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Other Construction Equipment | 4 | 8.00 | 172 | 0.42 |
| Structure/Enclosure | Pumps | 2 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating/Finishing | Air Compressors | 6 | 8.00 | 78 | 0.48 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|---------------------------------|--------------------|---|------|-----|------|
| Architectural Coating/Finishing | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Paving/Landscape | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving/Landscape | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving/Landscape | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving/Landscape | Skid Steer Loaders | 2 | 8.00 | 65 | 0.37 |
| Paving/Landscape | Trenchers | 1 | 8.00 | 78 | 0.50 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 9 | 100.00 | 80.00 | 0.00 | 14.70 | 32.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Excavation/Foundations | 27 | 490.00 | 640.00 | 8,572.00 | 14.70 | 32.00 | 145.00 | LD_Mix | HHDT | HHDT |
| Mat Foundation | 12 | 100.00 | 1,000.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HHDT | HHDT |
| Structure/Enclosure | 11 | 1,350.00 | 100.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating/Finishing | 8 | 1,480.00 | 60.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving/Landscape | 5 | 100.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.5093 | 0.0000 | 7.5093 | 1.1370 | 0.0000 | 1.1370 | | | | | | 0.0000 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Off-Road | 3.1399 | 29.0551 | 30.5611 | 0.0564 | | 1.3806 | 1.3806 | | 1.2907 | 1.2907 | | | | | | 5,473.8621 |
| Total | 3.1399 | 29.0551 | 30.5611 | 0.0564 | 7.5093 | 1.3806 | 8.8898 | 1.1370 | 1.2907 | 2.4276 | | | | | | 5,473.8621 |

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 |
| Vendor | 0.2147 | 16.5097 | 3.7794 | 0.0737 | 2.2395 | 0.1050 | 2.3446 | 0.6139 | 0.1005 | 0.7144 | | | | | | 8,491.9111 |
| Worker | 0.3441 | 0.2466 | 3.3308 | 9.3700e-003 | 1.1178 | 6.7400e-003 | 1.1245 | 0.2964 | 6.2100e-003 | 0.3027 | | | | | | 967.2121 |
| Total | 0.5587 | 16.7563 | 7.1102 | 0.0830 | 3.3573 | 0.1118 | 3.4691 | 0.9104 | 0.1067 | 1.0171 | | | | | | 9,459.1232 |

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 | | | | | 2.9286 | 0.0000 | 2.9286 | 0.4434 | 0.0000 | 0.4434 | | | | | | 0.0000 |
| Off-Road | 0.6648 | 2.8810 | 35.7707 | 0.0564 | | 0.0886 | 0.0886 | | 0.0886 | 0.0886 | | | | | | 5,473.8621 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Total | 0.6648 | 2.8810 | 35.7707 | 0.0564 | 2.9286 | 0.0886 | 3.0173 | 0.4434 | 0.0886 | 0.5321 | | | | | | 5,473.8621 |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|

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 |
| Vendor | 0.2147 | 16.5097 | 3.7794 | 0.0737 | 2.2395 | 0.1050 | 2.3446 | 0.6139 | 0.1005 | 0.7144 | | | | | | 8,491.9111 |
| Worker | 0.3441 | 0.2466 | 3.3308 | 9.3700e-003 | 1.1178 | 6.7400e-003 | 1.1245 | 0.2964 | 6.2100e-003 | 0.3027 | | | | | | 967.2121 |
| Total | 0.5587 | 16.7563 | 7.1102 | 0.0830 | 3.3573 | 0.1118 | 3.4691 | 0.9104 | 0.1067 | 1.0171 | | | | | | 9,459.1232 |

3.3 Excavation/Foundations - 2023**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 8.1257 | 76.5402 | 70.9341 | 0.1751 | | 3.3179 | 3.3179 | | 3.1044 | 3.1044 | | | | | | 16,927.2469 |
| Total | 8.1257 | 76.5402 | 70.9341 | 0.1751 | 20.1595 | 3.3179 | 23.4774 | 10.1785 | 3.1044 | 13.2829 | | | | | | 16,927.2469 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.4098 | 40.1612 | 7.3965 | 0.1890 | 5.8740 | 0.2737 | 6.1477 | 1.6099 | 0.2618 | 1.8718 | | | | | | 21,796.3819 |
| Vendor | 1.7172 | 132.0778 | 30.2351 | 0.5893 | 17.9161 | 0.8403 | 18.7564 | 4.9114 | 0.8040 | 5.7153 | | | | | | 67,935.2884 |
| Worker | 1.6859 | 1.2084 | 16.3210 | 0.0459 | 5.4771 | 0.0331 | 5.5101 | 1.4525 | 0.0304 | 1.4830 | | | | | | 4,739.3395 |
| Total | 3.8129 | 173.4474 | 53.9525 | 0.8242 | 29.2672 | 1.1470 | 30.4142 | 7.9739 | 1.0962 | 9.0700 | | | | | | 94,471.0098 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.5412 | 11.6475 | 95.8857 | 0.1751 | | 0.3812 | 0.3812 | | 0.3812 | 0.3812 | | | | | | 16,927.2469 |
| Total | 2.5412 | 11.6475 | 95.8857 | 0.1751 | 7.8622 | 0.3812 | 8.2434 | 3.9696 | 0.3812 | 4.3509 | | | | | | 16,927.2469 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.4098 | 40.1612 | 7.3965 | 0.1890 | 5.8740 | 0.2737 | 6.1477 | 1.6099 | 0.2618 | 1.8718 | | | | | | 21,796.3819 |
| Vendor | 1.7172 | 132.0778 | 30.2351 | 0.5893 | 17.9161 | 0.8403 | 18.7564 | 4.9114 | 0.8040 | 5.7153 | | | | | | 67,935.2884 |
| Worker | 1.6859 | 1.2084 | 16.3210 | 0.0459 | 5.4771 | 0.0331 | 5.5101 | 1.4525 | 0.0304 | 1.4830 | | | | | | 4,739.3395 |
| Total | 3.8129 | 173.4474 | 53.9525 | 0.8242 | 29.2672 | 1.1470 | 30.4142 | 7.9739 | 1.0962 | 9.0700 | | | | | | 94,471.0098 |

3.3 Excavation/Foundations - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 7.8513 | 72.5039 | 70.8990 | 0.1752 | | 3.0889 | 3.0889 | | 2.8869 | 2.8869 | | | | | | 16,939.7654 |
| Total | 7.8513 | 72.5039 | 70.8990 | 0.1752 | 20.1595 | 3.0889 | 23.2484 | 10.1785 | 2.8869 | 13.0655 | | | | | | 16,939.7654 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.4058 | 40.3070 | 7.6054 | 0.1861 | 5.8742 | 0.2759 | 6.1501 | 1.6100 | 0.2640 | 1.8740 | | | | | | 21,489.0033 |
| Vendor | 1.7037 | 132.4775 | 30.8657 | 0.5802 | 17.9166 | 0.8471 | 18.7637 | 4.9115 | 0.8105 | 5.7220 | | | | | | 66,977.3537 |
| Worker | 1.5765 | 1.0788 | 15.2051 | 0.0446 | 5.4771 | 0.0317 | 5.5087 | 1.4525 | 0.0292 | 1.4817 | | | | | | 4,640.0459 |
| Total | 3.6861 | 173.8632 | 53.6761 | 0.8109 | 29.2678 | 1.1548 | 30.4226 | 7.9741 | 1.1037 | 9.0777 | | | | | | 93,106.4030 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.5040 | 11.5680 | 95.8573 | 0.1752 | | 0.3659 | 0.3659 | | 0.3659 | 0.3659 | | | | | | 16,939.7654 |
| Total | 2.5040 | 11.5680 | 95.8573 | 0.1752 | 7.8622 | 0.3659 | 8.2281 | 3.9696 | 0.3659 | 4.3355 | | | | | | 16,939.7654 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.4058 | 40.3070 | 7.6054 | 0.1861 | 5.8742 | 0.2759 | 6.1501 | 1.6100 | 0.2640 | 1.8740 | | | | | | 21,489.0033 |
| Vendor | 1.7037 | 132.4775 | 30.8657 | 0.5802 | 17.9166 | 0.8471 | 18.7637 | 4.9115 | 0.8105 | 5.7220 | | | | | | 66,977.3537 |
| Worker | 1.5765 | 1.0788 | 15.2051 | 0.0446 | 5.4771 | 0.0317 | 5.5087 | 1.4525 | 0.0292 | 1.4817 | | | | | | 4,640.0459 |
| Total | 3.6861 | 173.8632 | 53.6761 | 0.8109 | 29.2678 | 1.1548 | 30.4226 | 7.9741 | 1.1037 | 9.0777 | | | | | | 93,106.4030 |

3.4 Mat Foundation - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 2.0759 | 16.9790 | 23.5816 | 0.0424 | | 0.7624 | 0.7624 | | 0.7624 | 0.7624 | | | | | | 3,949.7319 |
| Total | 2.0759 | 16.9790 | 23.5816 | 0.0424 | 0.0000 | 0.7624 | 0.7624 | 0.0000 | 0.7624 | 0.7624 | | | | | | 3,949.7319 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.3081 | 59.7492 | 22.4809 | 0.2160 | 6.0531 | 0.2948 | 6.3479 | 1.6608 | 0.2821 | 1.9429 | | | | | | 24,882.6965 |
| Worker | 0.3217 | 0.2202 | 3.1031 | 9.1100e-003 | 1.1178 | 6.4700e-003 | 1.1242 | 0.2964 | 5.9500e-003 | 0.3024 | | | | | | 946.9482 |
| Total | 1.6298 | 59.9693 | 25.5840 | 0.2251 | 7.1708 | 0.3013 | 7.4721 | 1.9573 | 0.2880 | 2.2453 | | | | | | 25,829.6446 |

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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.6353 | 3.2181 | 25.6010 | 0.0424 | | 0.1112 | 0.1112 | | 0.1112 | 0.1112 | | | | | | 3,949.7319 |
| Total | 0.6353 | 3.2181 | 25.6010 | 0.0424 | 0.0000 | 0.1112 | 0.1112 | 0.0000 | 0.1112 | 0.1112 | | | | | | 3,949.7319 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.3081 | 59.7492 | 22.4809 | 0.2160 | 6.0531 | 0.2948 | 6.3479 | 1.6608 | 0.2821 | 1.9429 | | | | | | 24,882.6965 |
| Worker | 0.3217 | 0.2202 | 3.1031 | 9.1100e-003 | 1.1178 | 6.4700e-003 | 1.1242 | 0.2964 | 5.9500e-003 | 0.3024 | | | | | | 946.9482 |
| Total | 1.6298 | 59.9693 | 25.5840 | 0.2251 | 7.1708 | 0.3013 | 7.4721 | 1.9573 | 0.2880 | 2.2453 | | | | | | 25,829.6446 |

3.5 Structure/Enclosure - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.7435 | 23.9777 | 31.3323 | 0.0492 | | 1.1608 | 1.1608 | | 1.0943 | 1.0943 | | | | | | 4,678.4426 |
| Total | 2.7435 | 23.9777 | 31.3323 | 0.0492 | | 1.1608 | 1.1608 | | 1.0943 | 1.0943 | | | | | | 4,678.4426 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.1075 | 4.0269 | 1.5015 | 0.0184 | 0.6406 | 0.0195 | 0.6601 | 0.1844 | 0.0187 | 0.2031 | | | | | | 2,062.6523 |
| Worker | 4.3435 | 2.9722 | 41.8915 | 0.1230 | 15.0898 | 0.0873 | 15.1772 | 4.0019 | 0.0804 | 4.0823 | | | | | | 12,783.8000 |
| Total | 4.4510 | 6.9991 | 43.3930 | 0.1413 | 15.7304 | 0.1069 | 15.8372 | 4.1863 | 0.0991 | 4.2854 | | | | | | 14,846.4524 |

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 | 0.9847 | 4.9845 | 34.9619 | 0.0492 | | 0.1633 | 0.1633 | | 0.1633 | 0.1633 | | | | | | 4,678.4426 |
| Total | 0.9847 | 4.9845 | 34.9619 | 0.0492 | | 0.1633 | 0.1633 | | 0.1633 | 0.1633 | | | | | | 4,678.4426 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.1075 | 4.0269 | 1.5015 | 0.0184 | 0.6406 | 0.0195 | 0.6601 | 0.1844 | 0.0187 | 0.2031 | | | | | | 2,062.6523 |
| Worker | 4.3435 | 2.9722 | 41.8915 | 0.1230 | 15.0898 | 0.0873 | 15.1772 | 4.0019 | 0.0804 | 4.0823 | | | | | | 12,783.8000 |
| Total | 4.4510 | 6.9991 | 43.3930 | 0.1413 | 15.7304 | 0.1069 | 15.8372 | 4.1863 | 0.0991 | 4.2854 | | | | | | 14,846.4524 |

3.5 Structure/Enclosure - 2025

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 | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |
| Total | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |

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 |
| Vendor | 0.1042 | 4.0081 | 1.4743 | 0.0180 | 0.6406 | 0.0196 | 0.6602 | 0.1844 | 0.0187 | 0.2032 | | | | | | 2,025.6754 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Worker | 4.0761 | 2.6700 | 39.0718 | 0.1188 | 15.0898 | 0.0833 | 15.1731 | 4.0019 | 0.0767 | 4.0786 | | | | | | 12,468.0634 |
| Total | 4.1803 | 6.6782 | 40.5461 | 0.1368 | 15.7304 | 0.1029 | 15.8333 | 4.1863 | 0.0954 | 4.2818 | | | | | | 14,493.7388 |

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 | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |
| Total | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |

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 |
| Vendor | 0.1042 | 4.0081 | 1.4743 | 0.0180 | 0.6406 | 0.0196 | 0.6602 | 0.1844 | 0.0187 | 0.2032 | | | | | | 2,025.6754 |
| Worker | 4.0761 | 2.6700 | 39.0718 | 0.1188 | 15.0898 | 0.0833 | 15.1731 | 4.0019 | 0.0767 | 4.0786 | | | | | | 12,468.0634 |
| Total | 4.1803 | 6.6782 | 40.5461 | 0.1368 | 15.7304 | 0.1029 | 15.8333 | 4.1863 | 0.0954 | 4.2818 | | | | | | 14,493.7388 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating/Finishing - 2025****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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5407 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |
| Total | 60.6247 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0625 | 2.4049 | 0.8846 | 0.0108 | 0.3843 | 0.0118 | 0.3961 | 0.1107 | 0.0112 | 0.1219 | | | | | | 1,215.4053 |
| Worker | 4.4686 | 2.9271 | 42.8343 | 0.1302 | 16.5429 | 0.0913 | 16.6343 | 4.3873 | 0.0841 | 4.4713 | | | | | | 13,668.6917 |
| Total | 4.5311 | 5.3320 | 43.7189 | 0.1410 | 16.9272 | 0.1031 | 17.0303 | 4.4979 | 0.0953 | 4.5932 | | | | | | 14,884.0970 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0625 | 2.4049 | 0.8846 | 0.0108 | 0.3843 | 0.0118 | 0.3961 | 0.1107 | 0.0112 | 0.1219 | | | | | | 1,215.4053 |
| Worker | 4.4686 | 2.9271 | 42.8343 | 0.1302 | 16.5429 | 0.0913 | 16.6343 | 4.3873 | 0.0841 | 4.4713 | | | | | | 13,668.6917 |
| Total | 4.5311 | 5.3320 | 43.7189 | 0.1410 | 16.9272 | 0.1031 | 17.0303 | 4.4979 | 0.0953 | 4.5932 | | | | | | 14,884.0970 |

3.6 Architectural Coating/Finishing - 2026

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5407 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |
| Total | 60.6247 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0608 | 2.3875 | 0.8721 | 0.0106 | 0.3843 | 0.0117 | 0.3961 | 0.1107 | 0.0112 | 0.1219 | | | | | | 1,192.9312 |
| Worker | 4.2184 | 2.6570 | 40.2616 | 0.1263 | 16.5429 | 0.0867 | 16.6297 | 4.3873 | 0.0798 | 4.4671 | | | | | | 13,358.2893 |
| Total | 4.2792 | 5.0445 | 41.1337 | 0.1369 | 16.9273 | 0.0985 | 17.0257 | 4.4979 | 0.0910 | 4.5890 | | | | | | 14,551.2206 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Archit. Coating | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0608 | 2.3875 | 0.8721 | 0.0106 | 0.3843 | 0.0117 | 0.3961 | 0.1107 | 0.0112 | 0.1219 | | | | | | 1,192.9312 |
| Worker | 4.2184 | 2.6570 | 40.2616 | 0.1263 | 16.5429 | 0.0867 | 16.6297 | 4.3873 | 0.0798 | 4.4671 | | | | | | 13,358.2893 |
| Total | 4.2792 | 5.0445 | 41.1337 | 0.1369 | 16.9273 | 0.0985 | 17.0257 | 4.4979 | 0.0910 | 4.5890 | | | | | | 14,551.2206 |

3.7 Paving/Landscape - 2026**Unmitigated Construction On-Site**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.7164 | 7.2352 | 9.7203 | 0.0142 | | 0.3792 | 0.3792 | | 0.3489 | 0.3489 | | | | | | 1,387.8055 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.7164 | 7.2352 | 9.7203 | 0.0142 | | 0.3792 | 0.3792 | | 0.3489 | 0.3489 | | | | | | 1,387.8055 |

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 |
| Vendor | 0.0101 | 0.3979 | 0.1453 | 1.7700e-003 | 0.0641 | 1.9500e-003 | 0.0660 | 0.0184 | 1.8700e-003 | 0.0203 | | | | | | 198.8219 |
| Worker | 0.2850 | 0.1795 | 2.7204 | 8.5300e-003 | 1.1178 | 5.8600e-003 | 1.1236 | 0.2964 | 5.3900e-003 | 0.3018 | | | | | | 902.5871 |
| Total | 0.2952 | 0.5775 | 2.8657 | 0.0103 | 1.1818 | 7.8100e-003 | 1.1896 | 0.3149 | 7.2600e-003 | 0.3221 | | | | | | 1,101.4090 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.2255 | 2.8606 | 10.7687 | 0.0142 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,387.8055 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.2255 | 2.8606 | 10.7687 | 0.0142 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,387.8055 |

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 |
| Vendor | 0.0101 | 0.3979 | 0.1453 | 1.7700e-003 | 0.0641 | 1.9500e-003 | 0.0660 | 0.0184 | 1.8700e-003 | 0.0203 | | | | | | 198.8219 |
| Worker | 0.2850 | 0.1795 | 2.7204 | 8.5300e-003 | 1.1178 | 5.8600e-003 | 1.1236 | 0.2964 | 5.3900e-003 | 0.3018 | | | | | | 902.5871 |
| Total | 0.2952 | 0.5775 | 2.8657 | 0.0103 | 1.1818 | 7.8100e-003 | 1.1896 | 0.3149 | 7.2600e-003 | 0.3221 | | | | | | 1,101.4090 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Construction Localized Impacts
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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| Industrial Park | 454.00 | 1000sqft | 10.42 | 454,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2027 |
| 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 -

Construction Phase - Project Specific Construction Schedule

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Trips and VMT - Site Specific Trips

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 Equipment Mitigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 65.00 |
| tblConstructionPhase | NumDays | 155.00 | 185.00 |
| tblConstructionPhase | NumDays | 60.00 | 5.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 235.00 |
| tblConstructionPhase | NumDays | 110.00 | 304.00 |
| tblConstructionPhase | NumDays | 110.00 | 21.00 |
| tblGrading | MaterialExported | 0.00 | 772,000.00 |
| tblGrading | MaterialImported | 0.00 | 50,000.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|---------------------|----------------------------|------------|-------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripNumber | 2,255.00 | 0.00 |
| tblTripsAndVMT | HaulingTripNumber | 102,750.00 | 0.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 29.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 29.00 |
| tblTripsAndVMT | VendorTripNumber | 655.00 | 0.00 |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 68.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,536.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 307.00 | 0.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 0.00 |

2.0 Emissions Summary

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| 2023 | 11.2656 | 105.5952 | 101.4952 | 0.2315 | 27.6688 | 4.6984 | 32.3672 | 11.3155 | 4.3951 | 15.7106 | | | | | | 22,401.109 1 |
| 2024 | 7.8513 | 72.5039 | 70.8990 | 0.1752 | 20.1595 | 3.0889 | 23.2484 | 10.1785 | 2.8869 | 13.0655 | | | | | | 16,939.765 4 |
| 2025 | 63.1388 | 32.3557 | 47.9565 | 0.0760 | 0.0000 | 1.4962 | 1.4961 | 0.0000 | 1.4321 | 1.4321 | | | | | | 7,233.1954 |
| 2026 | 61.3411 | 18.0363 | 26.4609 | 0.0411 | 0.0000 | 0.8789 | 0.8789 | 0.0000 | 0.8416 | 0.8416 | | | | | | 3,940.9159 |
| Maximum | 63.1388 | 105.5952 | 101.4952 | 0.2315 | 27.6688 | 4.6984 | 32.3672 | 11.3155 | 4.3951 | 15.7106 | | | | | | 22,401.109 1 |

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 | | | | | |
| 2023 | 3.2060 | 14.5285 | 131.6564 | 0.2315 | 10.7908 | 0.4699 | 11.2607 | 4.4131 | 0.4699 | 4.8829 | | | | | | 22,401.109 1 |
| 2024 | 2.5040 | 11.5680 | 95.8573 | 0.1752 | 7.8622 | 0.3659 | 8.2281 | 3.9696 | 0.3659 | 4.3355 | | | | | | 16,939.765 4 |
| 2025 | 60.3120 | 6.1004 | 51.9203 | 0.0760 | 0.0000 | 0.1869 | 0.1869 | 0.0000 | 0.1869 | 0.1869 | | | | | | 7,233.1954 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|----------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| 2026 | 59.5850 | 4.0540 | 27.7511 | 0.0411 | 0.0000 | 0.0600 | 0.0600 | 0.0000 | 0.0600 | 0.0600 | | | | | | 3,940.9158 |
| Maximum | 60.3120 | 14.5285 | 131.6564 | 0.2315 | 10.7908 | 0.4699 | 11.2607 | 4.4131 | 0.4699 | 4.8829 | | | | | | 22,401.1091 |

| | 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 | 12.53 | 84.13 | -24.46 | 0.00 | 61.00 | 89.35 | 65.97 | 61.00 | 88.67 | 69.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 42.8443 | 6.6200e-003 | 0.7306 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6721 |
| Energy | 0.5995 | 5.4501 | 4.5781 | 0.0327 | | 0.4142 | 0.4142 | | 0.4142 | 0.4142 | | | | | | 6,579.0228 |
| Mobile | 43.2260 | 44.7692 | 423.8369 | 0.9251 | 110.0274 | 0.6700 | 110.6974 | 29.3118 | 0.6222 | 29.9340 | | | | | | 99,447.2631 |
| Total | 86.6698 | 50.2259 | 429.1455 | 0.9579 | 110.0274 | 1.0868 | 111.1143 | 29.3118 | 1.0390 | 30.3508 | | | | | | 106,027.9581 |

Mitigated Operational

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Area | 42.8443 | 6.6200e-003 | 0.7306 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6721 |
| Energy | 0.5995 | 5.4501 | 4.5781 | 0.0327 | | 0.4142 | 0.4142 | | 0.4142 | 0.4142 | | | | | | 6,579.0228 |
| Mobile | 43.2260 | 44.7692 | 423.8369 | 0.9251 | 110.0274 | 0.6700 | 110.6974 | 29.3118 | 0.6222 | 29.9340 | | | | | | 99,447.2631 |
| Total | 86.6698 | 50.2259 | 429.1455 | 0.9579 | 110.0274 | 1.0868 | 111.1143 | 29.3118 | 1.0390 | 30.3508 | | | | | | 106,027.9581 |

| | 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 | 10/1/2023 | 12/31/2023 | 5 | 65 | |
| 2 | Excavation/Foundations | Grading | 10/16/2023 | 6/30/2024 | 5 | 185 | |
| 3 | Mat Foundation | Site Preparation | 7/1/2024 | 7/7/2024 | 5 | 5 | |
| 4 | Structure/Enclosure | Building Construction | 7/8/2024 | 5/31/2025 | 5 | 235 | |
| 5 | Architectural Coating/Finishing | Architectural Coating | 4/1/2025 | 5/31/2026 | 5 | 304 | |
| 6 | Paving/Landscape | Paving | 5/1/2026 | 5/31/2026 | 5 | 21 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 277.5

Acres of Paving: 47.7

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,811,000; Non-Residential Outdoor: 937,000; Striped Parking Area: 127,200****OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 4 | 8.00 | 158 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Bore/Drill Rigs | 6 | 8.00 | 221 | 0.50 |
| Excavation/Foundations | Cranes | 2 | 8.00 | 231 | 0.29 |
| Excavation/Foundations | Excavators | 3 | 8.00 | 158 | 0.38 |
| Excavation/Foundations | Graders | 0 | 8.00 | 187 | 0.41 |
| Excavation/Foundations | Other Construction Equipment | 2 | 8.00 | 172 | 0.42 |
| Excavation/Foundations | Pumps | 4 | 8.00 | 84 | 0.74 |
| Excavation/Foundations | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Rubber Tired Loaders | 2 | 8.00 | 203 | 0.36 |
| Excavation/Foundations | Scrapers | 0 | 8.00 | 367 | 0.48 |
| Excavation/Foundations | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Excavation/Foundations | Welders | 2 | 8.00 | 46 | 0.45 |
| Mat Foundation | Plate Compactors | 6 | 8.00 | 8 | 0.43 |
| Mat Foundation | Pumps | 6 | 8.00 | 84 | 0.74 |
| Mat Foundation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Mat Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Cranes | 0 | 7.00 | 231 | 0.29 |
| Structure/Enclosure | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Structure/Enclosure | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Other Construction Equipment | 4 | 8.00 | 172 | 0.42 |
| Structure/Enclosure | Pumps | 2 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|---------------------------------|--------------------|---|------|-----|------|
| Structure/Enclosure | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating/Finishing | Air Compressors | 6 | 8.00 | 78 | 0.48 |
| Architectural Coating/Finishing | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Paving/Landscape | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving/Landscape | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving/Landscape | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving/Landscape | Skid Steer Loaders | 2 | 8.00 | 65 | 0.37 |
| Paving/Landscape | Trenchers | 1 | 8.00 | 78 | 0.50 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 9 | 0.00 | 0.00 | 0.00 | 14.70 | 29.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Excavation/Foundations | 27 | 0.00 | 0.00 | 0.00 | 14.70 | 29.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Mat Foundation | 12 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HHDT | HHDT |
| Structure/Enclosure | 11 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating/Finishing | 8 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving/Landscape | 5 | 0.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023**Unmitigated Construction On-Site**

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|--|--|--|-------------------|
| Fugitive Dust | | | | | 7.5093 | 0.0000 | 7.5093 | 1.1370 | 0.0000 | 1.1370 | | | | | | 0.0000 |
| Off-Road | 3.1399 | 29.0551 | 30.5611 | 0.0564 | | 1.3806 | 1.3806 | | 1.2907 | 1.2907 | | | | | | 5,473.8621 |
| Total | 3.1399 | 29.0551 | 30.5611 | 0.0564 | 7.5093 | 1.3806 | 8.8898 | 1.1370 | 1.2907 | 2.4276 | | | | | | 5,473.8621 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|--|--|--|-------------------|
| Fugitive Dust | | | | | 2.9286 | 0.0000 | 2.9286 | 0.4434 | 0.0000 | 0.4434 | | | | | | 0.0000 |
| Off-Road | 0.6648 | 2.8810 | 35.7707 | 0.0564 | | 0.0886 | 0.0886 | | 0.0886 | 0.0886 | | | | | | 5,473.8621 |
| Total | 0.6648 | 2.8810 | 35.7707 | 0.0564 | 2.9286 | 0.0886 | 3.0173 | 0.4434 | 0.0886 | 0.5321 | | | | | | 5,473.8621 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.3 Excavation/Foundations - 2023**Unmitigated Construction On-Site**

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--------|--|--|--|--------------------|
| Fugitive Dust | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | 0.0000 |
| Off-Road | 8.1257 | 76.5402 | 70.9341 | 0.1751 | | 3.3179 | 3.3179 | | 3.1044 | 3.1044 | | | | | 16,927.2469 |
| Total | 8.1257 | 76.5402 | 70.9341 | 0.1751 | 20.1595 | 3.3179 | 23.4774 | 10.1785 | 3.1044 | 13.2829 | | | | | 16,927.2469 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|--|--|--|--------------------|
| Fugitive Dust | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.5412 | 11.6475 | 95.8857 | 0.1751 | | 0.3812 | 0.3812 | | 0.3812 | 0.3812 | | | | | | 16,927.2469 |
| Total | 2.5412 | 11.6475 | 95.8857 | 0.1751 | 7.8622 | 0.3812 | 8.2434 | 3.9696 | 0.3812 | 4.3509 | | | | | | 16,927.2469 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.3 Excavation/Foundations - 2024**Unmitigated Construction On-Site**

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--------|--|--|--|--------------------|
| Fugitive Dust | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | 0.0000 |
| Off-Road | 7.8513 | 72.5039 | 70.8990 | 0.1752 | | 3.0889 | 3.0889 | | 2.8869 | 2.8869 | | | | | 16,939.7654 |
| Total | 7.8513 | 72.5039 | 70.8990 | 0.1752 | 20.1595 | 3.0889 | 23.2484 | 10.1785 | 2.8869 | 13.0655 | | | | | 16,939.7654 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|--|--|--------------------|
| Fugitive Dust | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | 0.0000 |
| Off-Road | 2.5040 | 11.5680 | 95.8573 | 0.1752 | | 0.3659 | 0.3659 | | 0.3659 | 0.3659 | | | | | 16,939.7654 |
| Total | 2.5040 | 11.5680 | 95.8573 | 0.1752 | 7.8622 | 0.3659 | 8.2281 | 3.9696 | 0.3659 | 4.3355 | | | | | 16,939.7654 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.4 Mat Foundation - 2024**Unmitigated Construction On-Site**

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|--|--|--|-------------------|
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 2.0759 | 16.9790 | 23.5816 | 0.0424 | | 0.7624 | 0.7624 | | 0.7624 | 0.7624 | | | | | | 3,949.7319 |
| Total | 2.0759 | 16.9790 | 23.5816 | 0.0424 | 0.0000 | 0.7624 | 0.7624 | 0.0000 | 0.7624 | 0.7624 | | | | | | 3,949.7319 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|--|--|--|-------------------|
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.6353 | 3.2181 | 25.6010 | 0.0424 | | 0.1112 | 0.1112 | | 0.1112 | 0.1112 | | | | | | 3,949.7319 |
| Total | 0.6353 | 3.2181 | 25.6010 | 0.0424 | 0.0000 | 0.1112 | 0.1112 | 0.0000 | 0.1112 | 0.1112 | | | | | | 3,949.7319 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.5 Structure/Enclosure - 2024**Unmitigated Construction On-Site**

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

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--------|--|--|--|--|-------------------|
| Off-Road | 2.7435 | 23.9777 | 31.3323 | 0.0492 | | 1.1608 | 1.1608 | | 1.0943 | 1.0943 | | | | | | 4,678.4426 |
| Total | 2.7435 | 23.9777 | 31.3323 | 0.0492 | | 1.1608 | 1.1608 | | 1.0943 | 1.0943 | | | | | | 4,678.4426 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| Off-Road | 0.9847 | 4.9845 | 34.9619 | 0.0492 | | 0.1633 | 0.1633 | | 0.1633 | 0.1633 | | | | | | 4,678.4426 |
| Total | 0.9847 | 4.9845 | 34.9619 | 0.0492 | | 0.1633 | 0.1633 | | 0.1633 | 0.1633 | | | | | | 4,678.4426 |

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.5 Structure/Enclosure - 2025**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 | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|-------|--------|---------|---------|--------|--|--------|--------|--|--------|--------|--|--|--|--|--|------------|
| Total | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |
|-------|--------|---------|---------|--------|--|--------|--------|--|--------|--------|--|--|--|--|--|------------|

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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |
| Total | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|---------------|
| Category | 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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.6 Architectural Coating/Finishing - 2025**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5407 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |
| Total | 60.6247 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|---------------|
| Category | 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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|---------------|
| Category | 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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.6 Architectural Coating/Finishing - 2026**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5407 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |
| Total | 60.6247 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|---------------|
| Category | 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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|---------------|
| Category | 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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

3.7 Paving/Landscape - 2026**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 | 0.7164 | 7.2352 | 9.7203 | 0.0142 | | 0.3792 | 0.3792 | | 0.3489 | 0.3489 | | | | | | 1,387.8055 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.7164 | 7.2352 | 9.7203 | 0.0142 | | 0.3792 | 0.3792 | | 0.3489 | 0.3489 | | | | | | 1,387.8055 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|---------------|
| Category | 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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.2255 | 2.8606 | 10.7687 | 0.0142 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,387.8055 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.2255 | 2.8606 | 10.7687 | 0.0142 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,387.8055 |

TVC Construction Localized Impacts - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|---------------|
| Category | 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 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------|---------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 43.2260 | 44.7692 | 423.8369 | 0.9251 | 110.0274 | 0.6700 | 110.6974 | 29.3118 | 0.6222 | 29.9340 | | | | | | 99,447.263 |

TVC Existing Conditions - 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**TVC Existing Conditions
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 Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2021 |
| 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 - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Energy Use - See Operational Assumptions

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

TVC Existing Conditions - 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

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

| Table Name | Column Name | Default Value | New Value |
|-----------------|--------------------------|---------------|---------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)**

TVC Existing Conditions - 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**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 | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.7933 |
| 2022 | 4.1044 | 28.3212 | 39.4108 | 0.1216 | 7.3557 | 0.9501 | 8.3058 | 1.9828 | 0.8947 | 2.8775 | | | | | | 12,657.8806 |
| 2023 | 3.6466 | 24.5371 | 37.2905 | 0.1178 | 7.3557 | 0.7782 | 8.1339 | 1.9828 | 0.7322 | 2.7150 | | | | | | 12,259.4140 |
| Maximum | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.7933 |

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 | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.7933 |
| 2022 | 4.1044 | 28.3212 | 39.4108 | 0.1216 | 7.3557 | 0.9501 | 8.3058 | 1.9828 | 0.8947 | 2.8775 | | | | | | 12,657.8806 |
| 2023 | 3.6466 | 24.5371 | 37.2905 | 0.1178 | 7.3557 | 0.7782 | 8.1339 | 1.9828 | 0.7322 | 2.7150 | | | | | | 12,259.4139 |
| Maximum | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.7933 |

TVC Existing Conditions - 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 |

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 | 16.8933 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 11.4898 | 14.2432 | 110.5353 | 0.2167 | 21.4689 | 0.2253 | 21.6942 | 5.7186 | 0.2106 | 5.9293 | | | | | | 22,444.9924 |
| Total | 28.5525 | 15.7852 | 112.0590 | 0.2260 | 21.4689 | 0.3431 | 21.8121 | 5.7186 | 0.3285 | 6.0471 | | | | | | 24,304.4476 |

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 | 16.8933 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

TVC Existing Conditions - 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 | 11.4898 | 14.2432 | 110.5353 | 0.2167 | 21.4689 | 0.2253 | 21.6942 | 5.7186 | 0.2106 | 5.9293 | | | | | | 22,444.992 |
| Unmitigated | 11.4898 | 14.2432 | 110.5353 | 0.2167 | 21.4689 | 0.2253 | 21.6942 | 5.7186 | 0.2106 | 5.9293 | | | | | | 22,444.992 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|-----------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.00342 |

TVC Existing Conditions - 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

| | | | | | | | | | | | | | |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| Industrial Park | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.00342 |
| Parking Lot | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.00342 |
| User Defined Commercial | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.00342 |
| User Defined Industrial | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.00342 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | 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 | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| NaturalGas Unmitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 | | | | | |

TVC Existing Conditions - 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

| | | | | | | | | | | | | | | | | | |
|-------------------------|---------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 10998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3256.21 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1453.38 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

Mitigated

| | 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 | lb/day | | | | | | | | | | lb/day | | | | | |
| General Office Building | 10.998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3.25621 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1.45338 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

6.0 Area Detail

TVC Existing Conditions - 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**6.1 Mitigation Measures Area**

| | 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 | 16.8933 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |
| Unmitigated | 16.8933 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |

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 | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0215 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |
| Total | 16.8933 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |

TVC Existing Conditions - 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**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 | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0215 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |
| Total | 16.8933 | 2.1100e-003 | 0.2301 | 2.0000e-005 | | 8.2000e-004 | 8.2000e-004 | | 8.2000e-004 | 8.2000e-004 | | | | | | 0.5239 |

7.0 Water Detail**7.1 Mitigation Measures Water****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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

TVC Existing Conditions - 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

Fire Pumps and Emergency Generators

| | | | | | | |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| | | | | | |
|----------------|--------|----------------|-----------------|---------------|-----------|
| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| | |
|----------------|--------|
| Equipment Type | Number |
|----------------|--------|

11.0 Vegetation

TVC Existing Conditions (Buildout Year 2026) - 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**TVC Existing Conditions (Buildout Year 2026)**

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 Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2026 LADWP Consistency with SB 100

Land Use - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - See Operational Assumptions

TVC Existing Conditions (Buildout Year 2026) - 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

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |

TVC Existing Conditions (Buildout Year 2026) - 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

| | | | |
|----------|--------------------|------|---------------|
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |
|----------|--------------------|------|---------------|

2.0 Emissions Summary**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 | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.7933 |
| 2022 | 4.1044 | 28.3212 | 39.4108 | 0.1216 | 7.3557 | 0.9501 | 8.3058 | 1.9828 | 0.8947 | 2.8775 | | | | | | 12,657.8806 |
| 2023 | 3.6466 | 24.5371 | 37.2905 | 0.1178 | 7.3557 | 0.7782 | 8.1339 | 1.9828 | 0.7322 | 2.7150 | | | | | | 12,259.4140 |
| Maximum | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.7933 |

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 | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.7933 |
| 2022 | 4.1044 | 28.3212 | 39.4108 | 0.1216 | 7.3557 | 0.9501 | 8.3058 | 1.9828 | 0.8947 | 2.8775 | | | | | | 12,657.8806 |

TVC Existing Conditions (Buildout Year 2026) - 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

| | | | | | | | | | | | | | | | | |
|----------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------------|
| 2023 | 3.6466 | 24.5371 | 37.2905 | 0.1178 | 7.3557 | 0.7782 | 8.1339 | 1.9828 | 0.7322 | 2.7150 | | | | | | 12,259.413 9 |
| Maximum | 4.6376 | 32.3288 | 41.9889 | 0.1244 | 7.3557 | 1.1901 | 8.5458 | 1.9828 | 1.1213 | 3.1041 | | | | | | 12,959.793 3 |

| | 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 |

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 | 16.8929 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 9.4392 | 9.4921 | 87.9707 | 0.1863 | 21.4726 | 0.1385 | 21.6111 | 5.7202 | 0.1286 | 5.8487 | | | | | | 19,302.111 6 |
| Total | 26.5015 | 11.0341 | 89.4928 | 0.1956 | 21.4726 | 0.2563 | 21.7289 | 5.7202 | 0.2464 | 5.9666 | | | | | | 21,161.566 2 |

Mitigated Operational

TVC Existing Conditions (Buildout Year 2026) - 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 | | | | | |
| Area | 16.8929 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 9.4392 | 9.4921 | 87.9707 | 0.1863 | 21.4726 | 0.1385 | 21.6111 | 5.7202 | 0.1286 | 5.8487 | | | | | | 19,302.1116 |
| Total | 26.5015 | 11.0341 | 89.4928 | 0.1956 | 21.4726 | 0.2563 | 21.7289 | 5.7202 | 0.2464 | 5.9666 | | | | | | 21,161.5662 |

| | 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 | Building Construction | Building Construction | 11/14/2021 | 4/14/2023 | 5 | 370 | |

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 13.5****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –****OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------|--------|-------------|-------------|-------------|
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |

TVC Existing Conditions (Buildout Year 2026) - 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

| | | | | | | | | | | | | | | | | |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|------------|
| Total | 2.0738 | 10.1522 | 21.0465 | 0.0909 | 7.3557 | 0.0785 | 7.4342 | 1.9828 | 0.0738 | 2.0566 | | | | | | 9,689.0079 |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|------------|

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 9.4392 | 9.4921 | 87.9707 | 0.1863 | 21.4726 | 0.1385 | 21.6111 | 5.7202 | 0.1286 | 5.8487 | | | | | | 19,302.111 |
| Unmitigated | 9.4392 | 9.4921 | 87.9707 | 0.1863 | 21.4726 | 0.1385 | 21.6111 | 5.7202 | 0.1286 | 5.8487 | | | | | | 19,302.111 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

4.3 Trip Type Information

| | Miles | Trip % | Trip Purpose % |
|--|-------|--------|----------------|
|--|-------|--------|----------------|

TVC Existing Conditions (Buildout Year 2026) - 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

| Land Use | 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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.00331 |
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.00331 |
| Parking Lot | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.00331 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.00331 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.00331 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | 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 | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| NaturalGas Unmitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

TVC Existing Conditions (Buildout Year 2026) - 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 Office Building | 10998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3256.21 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1453.38 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 Office Building | 10.998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |

TVC Existing Conditions (Buildout Year 2026) - 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

| | | | | | | | | | | | | | | | | | |
|-------------------------|---------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| Industrial Park | 3.25621 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1.45338 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 16.8929 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |
| Unmitigated | 16.8929 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |

6.2 Area by SubCategory**Unmitigated**

TVC Existing Conditions (Buildout Year 2026) - 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 |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|-----------|-----------|-----|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0211 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |
| Total | 16.8929 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |

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 | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0211 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |
| Total | 16.8929 | 2.0700e-003 | 0.2286 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5232 |

7.0 Water Detail**7.1 Mitigation Measures Water**

TVC Existing Conditions (Buildout Year 2026) - 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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Operations - Total Permitted Land Uses****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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculation and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 104,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 129.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.02 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|--------|---------------|
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,290.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,098.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 11,346.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 24,050,000.00 |

2.0 Emissions Summary**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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------|
| Mobile | 27.2009 | 27.1777 | 252.7606 | 0.5301 | 61.0479 | 0.3972 | 61.4451 | 16.2627 | 0.3688 | 16.6316 | | | | | | 56,650.7889 |
| Total | 70.6181 | 32.3919 | 257.8657 | 0.5614 | 61.0479 | 0.7956 | 61.8435 | 16.2627 | 0.7672 | 17.0299 | | | | | | 62,938.7897 |

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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| Mobile | 27.2009 | 27.1777 | 252.7606 | 0.5301 | 61.0479 | 0.3972 | 61.4451 | 16.2627 | 0.3688 | 16.6316 | | | | | | 56,650.7889 |
| Total | 70.6181 | 32.3919 | 257.8657 | 0.5614 | 61.0479 | 0.7956 | 61.8435 | 16.2627 | 0.7672 | 17.0299 | | | | | | 62,938.7897 |

| | 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 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 27.2009 | 27.1777 | 252.7606 | 0.5301 | 61.0479 | 0.3972 | 61.4451 | 16.2627 | 0.3688 | 16.6316 | | | | | | 56,650.788 |
| Unmitigated | 27.2009 | 27.1777 | 252.7606 | 0.5301 | 61.0479 | 0.3972 | 61.4451 | 16.2627 | 0.3688 | 16.6316 | | | | | | 56,650.788 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.02 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| General Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| High Turnover (Sit Down Restaurant) | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Strip Mall | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Unenclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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 | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| NaturalGas Unmitigated | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 39545.2 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3155.21 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9886.3 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 66.9863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 464.438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 39.5452 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3.15521 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9.8863 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 0.0669863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 0.464438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Unmitigated | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

6.2 Area by SubCategory

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0673 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Total | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0673 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Total | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

7.0 Water Detail

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM)****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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 450.00 | 1000sqft | 10.33 | 450,000.00 | 0 |
| User Defined Industrial | 4.00 | User Defined Unit | 0.00 | 4,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a place holder for input of LADOT VMT Calculation and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|-----------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 4,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 5.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.13 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|--------|------------|
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,641.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,215.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 12,555.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 925,000.00 |

2.0 Emissions Summary**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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Energy | 0.5985 | 5.4408 | 4.5703 | 0.0326 | | 0.4135 | 0.4135 | | 0.4135 | 0.4135 | | | | | | 6,567.7654 |

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|-------------------------|
| Mobile | 30.3347 | 30.4285 | 283.0991 | 0.5955 | 68.6115 | 0.4457 | 69.0572 | 18.2776 | 0.4139 | 18.6915 | | | | | | 63,638.554 0 |
| Total | 73.7775 | 35.8759 | 288.4000 | 0.6282 | 68.6115 | 0.8618 | 69.4733 | 18.2776 | 0.8300 | 19.1076 | | | | | | 70,207.991 7 |

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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Energy | 0.5985 | 5.4408 | 4.5703 | 0.0326 | | 0.4135 | 0.4135 | | 0.4135 | 0.4135 | | | | | | 6,567.7654 |
| Mobile | 30.3347 | 30.4285 | 283.0991 | 0.5955 | 68.6115 | 0.4457 | 69.0572 | 18.2776 | 0.4139 | 18.6915 | | | | | | 63,638.554 0 |
| Total | 73.7775 | 35.8759 | 288.4000 | 0.6282 | 68.6115 | 0.8618 | 69.4733 | 18.2776 | 0.8300 | 19.1076 | | | | | | 70,207.991 7 |

| | 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 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 30.3347 | 30.4285 | 283.0991 | 0.5955 | 68.6115 | 0.4457 | 69.0572 | 18.2776 | 0.4139 | 18.6915 | | | | | | 63,638.554 |
| Unmitigated | 30.3347 | 30.4285 | 283.0991 | 0.5955 | 68.6115 | 0.4457 | 69.0572 | 18.2776 | 0.4139 | 18.6915 | | | | | | 63,638.554 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 12,555.00 | 3,641.00 | 1,215.00 | 25,074,870 | 25,074,870 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 12,555.00 | 3,641.00 | 1,215.00 | 25,074,870 | 25,074,870 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.13 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| General Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| High Turnover (Sit Down Restaurant) | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Strip Mall | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Unenclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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 | 0.5985 | 5.4408 | 4.5703 | 0.0326 | | 0.4135 | 0.4135 | | 0.4135 | 0.4135 | | | | | | 6,567.7654 |
| NaturalGas Unmitigated | 0.5985 | 5.4408 | 4.5703 | 0.0326 | | 0.4135 | 0.4135 | | 0.4135 | 0.4135 | | | | | | 6,567.7654 |

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 39545.2 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3155.21 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 12711 | 0.1371 | 1.2462 | 1.0468 | 7.4800e-003 | | 0.0947 | 0.0947 | | 0.0947 | 0.0947 | | | | | | 1,504.2934 |
| Strip Mall | 66.9863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 17.863 | 1.9000e-004 | 1.7500e-003 | 1.4700e-003 | 1.0000e-005 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | | | | | 2.1140 |
| Total | | 0.5985 | 5.4408 | 4.5703 | 0.0327 | | 0.4135 | 0.4135 | | 0.4135 | 0.4135 | | | | | | 6,567.7654 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 39.5452 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3.15521 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 12.711 | 0.1371 | 1.2462 | 1.0468 | 7.4800e-003 | | 0.0947 | 0.0947 | | 0.0947 | 0.0947 | | | | | | 1,504.2934 |
| Strip Mall | 0.0669863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 0.017863 | 1.9000e-004 | 1.7500e-003 | 1.4700e-003 | 1.0000e-005 | | 1.3000e-004 | 1.3000e-004 | | 1.3000e-004 | 1.3000e-004 | | | | | | 2.1140 |
| Total | | 0.5985 | 5.4408 | 4.5703 | 0.0327 | | 0.4135 | 0.4135 | | 0.4135 | 0.4135 | | | | | | 6,567.7654 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Unmitigated | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

6.2 Area by SubCategory

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0673 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Total | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0673 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Total | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

7.0 Water Detail

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| | | | | | | |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| | | | | | |
|----------------|--------|----------------|-----------------|---------------|-----------|
| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| | |
|----------------|--------|
| Equipment Type | Number |
|----------------|--------|

11.0 Vegetation

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Operations - Land Use Exchange-Maximum Electricity (With TDM)****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 Office Building | 954.00 | 1000sqft | 21.90 | 954,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 450.00 | 1000sqft | 10.33 | 450,000.00 | 0 |
| User Defined Industrial | 450.00 | User Defined Unit | 0.00 | 450,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculation and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 450,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 558.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.11 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|--------|----------------|
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,150.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,051.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 10,863.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 104,062,500.00 |

2.0 Emissions Summary**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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Energy | 0.4841 | 4.4010 | 3.6968 | 0.0264 | | 0.3345 | 0.3345 | | 0.3345 | 0.3345 | | | | | | 5,312.5566 |

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------|
| Mobile | 26.2096 | 26.2719 | 244.4110 | 0.5138 | 59.1984 | 0.3847 | 59.5831 | 15.7700 | 0.3572 | 16.1272 | | | | | | 54,912.5364 |
| Total | 69.5380 | 30.6795 | 248.8385 | 0.5403 | 59.1984 | 0.7217 | 59.9202 | 15.7700 | 0.6943 | 16.4643 | | | | | | 60,226.7654 |

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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Energy | 0.4841 | 4.4010 | 3.6968 | 0.0264 | | 0.3345 | 0.3345 | | 0.3345 | 0.3345 | | | | | | 5,312.5566 |
| Mobile | 26.2096 | 26.2719 | 244.4110 | 0.5138 | 59.1984 | 0.3847 | 59.5831 | 15.7700 | 0.3572 | 16.1272 | | | | | | 54,912.5364 |
| Total | 69.5380 | 30.6795 | 248.8385 | 0.5403 | 59.1984 | 0.7217 | 59.9202 | 15.7700 | 0.6943 | 16.4643 | | | | | | 60,226.7654 |

| | 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 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 26.2096 | 26.2719 | 244.4110 | 0.5138 | 59.1984 | 0.3847 | 59.5831 | 15.7700 | 0.3572 | 16.1272 | | | | | | 54,912.536 |
| Unmitigated | 26.2096 | 26.2719 | 244.4110 | 0.5138 | 59.1984 | 0.3847 | 59.5831 | 15.7700 | 0.3572 | 16.1272 | | | | | | 54,912.536 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 10,863.00 | 3,150.00 | 1051.00 | 21,634,536 | 21,634,536 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 10,863.00 | 3,150.00 | 1,051.00 | 21,634,536 | 21,634,536 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.11 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| General Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| High Turnover (Sit Down Restaurant) | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Strip Mall | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Unenclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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 | 0.4841 | 4.4010 | 3.6968 | 0.0264 | | 0.3345 | 0.3345 | | 0.3345 | 0.3345 | | | | | | 5,312.5566 |
| NaturalGas Unmitigated | 0.4841 | 4.4010 | 3.6968 | 0.0264 | | 0.3345 | 0.3345 | | 0.3345 | 0.3345 | | | | | | 5,312.5566 |

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 26947.2 | 0.2906 | 2.6419 | 2.2192 | 0.0159 | | 0.2008 | 0.2008 | | 0.2008 | 0.2008 | | | | | | 3,189.1020 |
| High Turnover (Sit Down Restaurant) | 3155.21 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 12711 | 0.1371 | 1.2462 | 1.0468 | 7.4800e-003 | | 0.0947 | 0.0947 | | 0.0947 | 0.0947 | | | | | | 1,504.2934 |
| Strip Mall | 66.9863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 2009.59 | 0.0217 | 0.1970 | 0.1655 | 1.1800e-003 | | 0.0150 | 0.0150 | | 0.0150 | 0.0150 | | | | | | 237.8272 |
| Total | | 0.4841 | 4.4010 | 3.6968 | 0.0264 | | 0.3345 | 0.3345 | | 0.3345 | 0.3345 | | | | | | 5,312.5566 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 26.9472 | 0.2906 | 2.6419 | 2.2192 | 0.0159 | | 0.2008 | 0.2008 | | 0.2008 | 0.2008 | | | | | | 3,189.1020 |
| High Turnover (Sit Down Restaurant) | 3.15521 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 12.711 | 0.1371 | 1.2462 | 1.0468 | 7.4800e-003 | | 0.0947 | 0.0947 | | 0.0947 | 0.0947 | | | | | | 1,504.2934 |
| Strip Mall | 0.0669863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 2.00959 | 0.0217 | 0.1970 | 0.1655 | 1.1800e-003 | | 0.0150 | 0.0150 | | 0.0150 | 0.0150 | | | | | | 237.8272 |
| Total | | 0.4841 | 4.4010 | 3.6968 | 0.0264 | | 0.3345 | 0.3345 | | 0.3345 | 0.3345 | | | | | | 5,312.5566 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Unmitigated | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

6.2 Area by SubCategory

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0673 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Total | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0673 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |
| Total | 42.8444 | 6.6200e-003 | 0.7307 | 5.0000e-005 | | 2.6000e-003 | 2.6000e-003 | | 2.6000e-003 | 2.6000e-003 | | | | | | 1.6724 |

7.0 Water Detail

TVC Operations - Land Use Exchange-Maximum Electricity (With TDM) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| | | | | | | |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| | | | | | |
|----------------|--------|----------------|-----------------|---------------|-----------|
| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| | |
|----------------|--------|
| Equipment Type | Number |
|----------------|--------|

11.0 Vegetation

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Construction Start Year of 2026

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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| Industrial Park | 454.00 | 1000sqft | 10.42 | 454,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| 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 -
- Construction Phase - Project Specific Construction Schedule
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Trips and VMT - Site Specific Trips

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 Equipment Mitigation

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 65.00 |
| tblConstructionPhase | NumDays | 155.00 | 185.00 |
| tblConstructionPhase | NumDays | 60.00 | 5.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 235.00 |
| tblConstructionPhase | NumDays | 110.00 | 304.00 |
| tblConstructionPhase | NumDays | 110.00 | 21.00 |
| tblGrading | MaterialExported | 0.00 | 772,000.00 |
| tblGrading | MaterialImported | 0.00 | 50,000.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|---------------------|----------------------------|------------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 145.00 |
| tblTripsAndVMT | HaulingTripNumber | 2,255.00 | 0.00 |
| tblTripsAndVMT | HaulingTripNumber | 102,750.00 | 8,572.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 80.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 640.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 1,000.00 |
| tblTripsAndVMT | VendorTripNumber | 655.00 | 100.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 60.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 68.00 | 490.00 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|----------------|------------------|----------|----------|
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,536.00 | 1,350.00 |
| tblTripsAndVMT | WorkerTripNumber | 307.00 | 1,480.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |

2.0 Emissions Summary**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 | | | | | |
| 2026 | 14.1634 | 279.3751 | 160.2962 | 1.0876 | 60.2952 | 5.1527 | 65.4479 | 20.2004 | 4.8392 | 25.0396 | | | | | | 121,039.2382 |
| 2027 | 10.7142 | 235.5499 | 123.0239 | 0.9360 | 49.4290 | 3.8837 | 53.3127 | 18.1532 | 3.6527 | 21.8059 | | | | | | 104,777.7880 |
| 2028 | 70.5220 | 42.9126 | 119.5993 | 0.3319 | 32.6577 | 1.6724 | 34.3300 | 8.6843 | 1.5954 | 10.2797 | | | | | | 34,859.3011 |
| 2029 | 65.2223 | 22.9725 | 64.4634 | 0.1775 | 18.1091 | 0.9681 | 19.0772 | 4.8128 | 0.9241 | 5.7369 | | | | | | 18,745.4067 |
| Maximum | 70.5220 | 279.3751 | 160.2962 | 1.0876 | 60.2952 | 5.1527 | 65.4479 | 20.2004 | 4.8392 | 25.0396 | | | | | | 121,039.2382 |

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 | | | | | |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------------|
| 2026 | 7.0832 | 201.5765 | 191.3300 | 1.0876 | 43.4172 | 1.7010 | 45.1182 | 13.2980 | 1.6453 | 14.9432 | | | | | | 121,039.23 82 |
| 2027 | 5.8231 | 180.3193 | 148.6059 | 0.9360 | 37.1317 | 1.4916 | 38.6233 | 11.9443 | 1.4414 | 13.3857 | | | | | | 104,777.78 80 |
| 2028 | 67.6952 | 16.6574 | 123.5631 | 0.3319 | 32.6577 | 0.3631 | 33.0208 | 8.6843 | 0.3502 | 9.0345 | | | | | | 34,859.301 1 |
| 2029 | 63.4662 | 8.9902 | 65.7536 | 0.1775 | 18.1091 | 0.1492 | 18.2583 | 4.8128 | 0.1425 | 4.9553 | | | | | | 18,745.406 7 |
| Maximum | 67.6952 | 201.5765 | 191.3300 | 1.0876 | 43.4172 | 1.7010 | 45.1182 | 13.2980 | 1.6453 | 14.9432 | | | | | | 121,039.23 82 |

| | 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 | 10.31 | 29.83 | -13.24 | 0.00 | 18.18 | 68.27 | 21.58 | 25.29 | 67.49 | 32.68 | 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 | 10/1/2026 | 12/31/2026 | 5 | 65 | |
| 2 | Excavation/Foundations | Grading | 10/16/2026 | 6/30/2027 | 5 | 185 | |
| 3 | Mat Foundation | Site Preparation | 7/1/2027 | 7/7/2027 | 5 | 5 | |
| 4 | Structure/Enclosure | Building Construction | 7/8/2027 | 5/31/2028 | 5 | 235 | |
| 5 | Architectural Coating/Finishing | Architectural Coating | 4/1/2028 | 5/31/2029 | 5 | 304 | |
| 6 | Paving/Landscape | Paving | 5/1/2029 | 5/31/2029 | 5 | 21 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 277.5

Acres of Paving: 47.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,811,000; Non-Residential Outdoor: 937,000; Striped Parking Area: 127,200

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 4 | 8.00 | 158 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Bore/Drill Rigs | 6 | 8.00 | 221 | 0.50 |
| Excavation/Foundations | Cranes | 2 | 8.00 | 231 | 0.29 |
| Excavation/Foundations | Excavators | 3 | 8.00 | 158 | 0.38 |
| Excavation/Foundations | Graders | 0 | 8.00 | 187 | 0.41 |
| Excavation/Foundations | Other Construction Equipment | 2 | 8.00 | 172 | 0.42 |
| Excavation/Foundations | Pumps | 4 | 8.00 | 84 | 0.74 |
| Excavation/Foundations | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Rubber Tired Loaders | 2 | 8.00 | 203 | 0.36 |
| Excavation/Foundations | Scrapers | 0 | 8.00 | 367 | 0.48 |
| Excavation/Foundations | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Excavation/Foundations | Welders | 2 | 8.00 | 46 | 0.45 |
| Mat Foundation | Plate Compactors | 6 | 8.00 | 8 | 0.43 |
| Mat Foundation | Pumps | 6 | 8.00 | 84 | 0.74 |
| Mat Foundation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Mat Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Cranes | 0 | 7.00 | 231 | 0.29 |
| Structure/Enclosure | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Structure/Enclosure | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Other Construction Equipment | 4 | 8.00 | 172 | 0.42 |
| Structure/Enclosure | Pumps | 2 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating/Finishing | Air Compressors | 6 | 8.00 | 78 | 0.48 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|---------------------------------|--------------------|---|------|-----|------|
| Architectural Coating/Finishing | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Paving/Landscape | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving/Landscape | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving/Landscape | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving/Landscape | Skid Steer Loaders | 2 | 8.00 | 65 | 0.37 |
| Paving/Landscape | Trenchers | 1 | 8.00 | 78 | 0.50 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 9 | 100.00 | 80.00 | 0.00 | 14.70 | 32.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Excavation/Foundations | 27 | 490.00 | 640.00 | 8,572.00 | 14.70 | 32.00 | 145.00 | LD_Mix | HHDT | HHDT |
| Mat Foundation | 12 | 100.00 | 1,000.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HHDT | HHDT |
| Structure/Enclosure | 11 | 1,350.00 | 100.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating/Finishing | 8 | 1,480.00 | 60.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving/Landscape | 5 | 100.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2026**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 | | | | | 7.5093 | 0.0000 | 7.5093 | 1.1370 | 0.0000 | 1.1370 | | | | | | 0.0000 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Off-Road | 2.8539 | 25.4490 | 30.3188 | 0.0565 | | 1.1483 | 1.1483 | | 1.0713 | 1.0713 | | | | | | 5,474.9265 |
| Total | 2.8539 | 25.4490 | 30.3188 | 0.0565 | 7.5093 | 1.1483 | 8.6575 | 1.1370 | 1.0713 | 2.2082 | | | | | | 5,474.9265 |

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 |
| Vendor | 0.2079 | 16.2819 | 3.9734 | 0.0697 | 2.2397 | 0.1055 | 2.3452 | 0.6140 | 0.1010 | 0.7150 | | | | | | 8,066.1524 |
| Worker | 0.2850 | 0.1795 | 2.7204 | 8.5300e-003 | 1.1178 | 5.8600e-003 | 1.1236 | 0.2964 | 5.3900e-003 | 0.3018 | | | | | | 902.5871 |
| Total | 0.4930 | 16.4614 | 6.6938 | 0.0782 | 3.3574 | 0.1114 | 3.4689 | 0.9104 | 0.1064 | 1.0168 | | | | | | 8,968.7396 |

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 | | | | | 2.9286 | 0.0000 | 2.9286 | 0.4434 | 0.0000 | 0.4434 | | | | | | 0.0000 |
| Off-Road | 0.6648 | 2.8810 | 35.7707 | 0.0565 | | 0.0886 | 0.0886 | | 0.0886 | 0.0886 | | | | | | 5,474.9265 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Total | 0.6648 | 2.8810 | 35.7707 | 0.0565 | 2.9286 | 0.0886 | 3.0173 | 0.4434 | 0.0886 | 0.5321 | | | | | | 5,474.9265 |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|

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 |
| Vendor | 0.2079 | 16.2819 | 3.9734 | 0.0697 | 2.2397 | 0.1055 | 2.3452 | 0.6140 | 0.1010 | 0.7150 | | | | | | 8,066.1524 |
| Worker | 0.2850 | 0.1795 | 2.7204 | 8.5300e-003 | 1.1178 | 5.8600e-003 | 1.1236 | 0.2964 | 5.3900e-003 | 0.3018 | | | | | | 902.5871 |
| Total | 0.4930 | 16.4614 | 6.6938 | 0.0782 | 3.3574 | 0.1114 | 3.4689 | 0.9104 | 0.1064 | 1.0168 | | | | | | 8,968.7396 |

3.3 Excavation/Foundations - 2026**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 7.3629 | 66.7211 | 70.2511 | 0.1752 | | 2.7448 | 2.7448 | | 2.5641 | 2.5641 | | | | | | 16,940.8412 |
| Total | 7.3629 | 66.7211 | 70.2511 | 0.1752 | 20.1595 | 2.7448 | 22.9043 | 10.1785 | 2.5641 | 12.7426 | | | | | | 16,940.8412 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3937 | 39.6089 | 7.9154 | 0.1787 | 5.8745 | 0.2751 | 6.1496 | 1.6101 | 0.2632 | 1.8733 | | | | | | 20,702.8346 |
| Vendor | 1.6633 | 130.2550 | 31.7872 | 0.5573 | 17.9175 | 0.8444 | 18.7618 | 4.9119 | 0.8078 | 5.7197 | | | | | | 64,529.2195 |
| Worker | 1.3966 | 0.8797 | 13.3299 | 0.0418 | 5.4771 | 0.0287 | 5.5058 | 1.4525 | 0.0264 | 1.4790 | | | | | | 4,422.6769 |
| Total | 3.4536 | 170.7436 | 53.0325 | 0.7778 | 29.2690 | 1.1482 | 30.4172 | 7.9745 | 1.0975 | 9.0720 | | | | | | 89,654.7309 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.4718 | 11.4906 | 95.8332 | 0.1752 | | 0.3528 | 0.3528 | | 0.3528 | 0.3528 | | | | | | 16,940.8412 |
| Total | 2.4718 | 11.4906 | 95.8332 | 0.1752 | 7.8622 | 0.3528 | 8.2150 | 3.9696 | 0.3528 | 4.3224 | | | | | | 16,940.8412 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3937 | 39.6089 | 7.9154 | 0.1787 | 5.8745 | 0.2751 | 6.1496 | 1.6101 | 0.2632 | 1.8733 | | | | | | 20,702.8346 |
| Vendor | 1.6633 | 130.2550 | 31.7872 | 0.5573 | 17.9175 | 0.8444 | 18.7618 | 4.9119 | 0.8078 | 5.7197 | | | | | | 64,529.2195 |
| Worker | 1.3966 | 0.8797 | 13.3299 | 0.0418 | 5.4771 | 0.0287 | 5.5058 | 1.4525 | 0.0264 | 1.4790 | | | | | | 4,422.6769 |
| Total | 3.4536 | 170.7436 | 53.0325 | 0.7778 | 29.2690 | 1.1482 | 30.4172 | 7.9745 | 1.0975 | 9.0720 | | | | | | 89,654.7309 |

3.3 Excavation/Foundations - 2027**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 7.3629 | 66.7211 | 70.2511 | 0.1752 | | 2.7448 | 2.7448 | | 2.5641 | 2.5641 | | | | | | 16,940.8412 |
| Total | 7.3629 | 66.7211 | 70.2511 | 0.1752 | 20.1595 | 2.7448 | 22.9043 | 10.1785 | 2.5641 | 12.7426 | | | | | | 16,940.8412 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3874 | 39.1635 | 8.0309 | 0.1749 | 5.8746 | 0.2733 | 6.1479 | 1.6101 | 0.2615 | 1.8716 | | | | | | 20,282.6071 |
| Vendor | 1.6431 | 128.8611 | 32.1338 | 0.5453 | 17.9179 | 0.8386 | 18.7564 | 4.9120 | 0.8023 | 5.7143 | | | | | | 63,222.1279 |
| Worker | 1.3208 | 0.8041 | 12.6081 | 0.0406 | 5.4771 | 0.0270 | 5.5040 | 1.4525 | 0.0248 | 1.4774 | | | | | | 4,332.2118 |
| Total | 3.3513 | 168.8288 | 52.7728 | 0.7608 | 29.2695 | 1.1389 | 30.4083 | 7.9747 | 1.0886 | 9.0633 | | | | | | 87,836.9468 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.4718 | 11.4906 | 95.8332 | 0.1752 | | 0.3528 | 0.3528 | | 0.3528 | 0.3528 | | | | | | 16,940.8412 |
| Total | 2.4718 | 11.4906 | 95.8332 | 0.1752 | 7.8622 | 0.3528 | 8.2150 | 3.9696 | 0.3528 | 4.3224 | | | | | | 16,940.8412 |

Mitigated Construction Off-Site

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.3874 | 39.1635 | 8.0309 | 0.1749 | 5.8746 | 0.2733 | 6.1479 | 1.6101 | 0.2615 | 1.8716 | | | | | | 20,282.6071 |
| Vendor | 1.6431 | 128.8611 | 32.1338 | 0.5453 | 17.9179 | 0.8386 | 18.7564 | 4.9120 | 0.8023 | 5.7143 | | | | | | 63,222.1279 |
| Worker | 1.3208 | 0.8041 | 12.6081 | 0.0406 | 5.4771 | 0.0270 | 5.5040 | 1.4525 | 0.0248 | 1.4774 | | | | | | 4,332.2118 |
| Total | 3.3513 | 168.8288 | 52.7728 | 0.7608 | 29.2695 | 1.1389 | 30.4083 | 7.9747 | 1.0886 | 9.0633 | | | | | | 87,836.9468 |

3.4 Mat Foundation - 2027**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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.9575 | 16.0647 | 23.5553 | 0.0424 | | 0.6638 | 0.6638 | | 0.6638 | 0.6638 | | | | | | 3,949.4030 |
| Total | 1.9575 | 16.0647 | 23.5553 | 0.0424 | 0.0000 | 0.6638 | 0.6638 | 0.0000 | 0.6638 | 0.6638 | | | | | | 3,949.4030 |

Unmitigated Construction Off-Site

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2803 | 58.3251 | 22.8626 | 0.2031 | 6.0535 | 0.2912 | 6.3447 | 1.6610 | 0.2786 | 1.9396 | | | | | | 23,495.1230 |
| Worker | 0.2696 | 0.1641 | 2.5731 | 8.2900e-003 | 1.1178 | 5.5100e-003 | 1.1233 | 0.2964 | 5.0700e-003 | 0.3015 | | | | | | 884.1249 |
| Total | 1.5498 | 58.4892 | 25.4356 | 0.2114 | 7.1713 | 0.2967 | 7.4679 | 1.9574 | 0.2836 | 2.2411 | | | | | | 24,379.2478 |

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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.6353 | 3.2181 | 25.6010 | 0.0424 | | 0.1112 | 0.1112 | | 0.1112 | 0.1112 | | | | | | 3,949.4030 |
| Total | 0.6353 | 3.2181 | 25.6010 | 0.0424 | 0.0000 | 0.1112 | 0.1112 | 0.0000 | 0.1112 | 0.1112 | | | | | | 3,949.4030 |

Mitigated Construction Off-Site

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2803 | 58.3251 | 22.8626 | 0.2031 | 6.0535 | 0.2912 | 6.3447 | 1.6610 | 0.2786 | 1.9396 | | | | | | 23,495.1230 |
| Worker | 0.2696 | 0.1641 | 2.5731 | 8.2900e-003 | 1.1178 | 5.5100e-003 | 1.1233 | 0.2964 | 5.0700e-003 | 0.3015 | | | | | | 884.1249 |
| Total | 1.5498 | 58.4892 | 25.4356 | 0.2114 | 7.1713 | 0.2967 | 7.4679 | 1.9574 | 0.2836 | 2.2411 | | | | | | 24,379.2478 |

3.5 Structure/Enclosure - 2027**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 | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |
| Total | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |

Unmitigated Construction Off-Site

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0989 | 3.9502 | 1.4364 | 0.0173 | 0.6406 | 0.0194 | 0.6600 | 0.1845 | 0.0186 | 0.2030 | | | | | | 1,949.2406 |
| Worker | 3.6390 | 2.2154 | 34.7365 | 0.1120 | 15.0898 | 0.0743 | 15.1642 | 4.0019 | 0.0684 | 4.0703 | | | | | | 11,935.6856 |
| Total | 3.7378 | 6.1656 | 36.1729 | 0.1293 | 15.7304 | 0.0938 | 15.8242 | 4.1863 | 0.0870 | 4.2733 | | | | | | 13,884.9262 |

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 | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |
| Total | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |

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 | | | | | |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0989 | 3.9502 | 1.4364 | 0.0173 | 0.6406 | 0.0194 | 0.6600 | 0.1845 | 0.0186 | 0.2030 | | | | | | 1,949.2406 |
| Worker | 3.6390 | 2.2154 | 34.7365 | 0.1120 | 15.0898 | 0.0743 | 15.1642 | 4.0019 | 0.0684 | 4.0703 | | | | | | 11,935.6856 |
| Total | 3.7378 | 6.1656 | 36.1729 | 0.1293 | 15.7304 | 0.0938 | 15.8242 | 4.1863 | 0.0870 | 4.2733 | | | | | | 13,884.9262 |

3.5 Structure/Enclosure - 2028**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 | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |
| Total | 2.5141 | 21.5546 | 31.2159 | 0.0492 | | 0.9965 | 0.9965 | | 0.9394 | 0.9394 | | | | | | 4,680.0850 |

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 |
| Vendor | 0.0969 | 3.9245 | 1.4245 | 0.0170 | 0.6406 | 0.0193 | 0.6599 | 0.1845 | 0.0185 | 0.2029 | | | | | | 1,912.0821 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Worker | 3.4481 | 2.0406 | 33.0886 | 0.1092 | 15.0898 | 0.0693 | 15.1591 | 4.0019 | 0.0638 | 4.0657 | | | | | | 11,719.1326 |
| Total | 3.5450 | 5.9651 | 34.5131 | 0.1261 | 15.7304 | 0.0887 | 15.8190 | 4.1863 | 0.0823 | 4.2686 | | | | | | 13,631.2147 |

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 | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |
| Total | 0.9526 | 4.9071 | 34.9379 | 0.0492 | | 0.1502 | 0.1502 | | 0.1502 | 0.1502 | | | | | | 4,680.0850 |

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 |
| Vendor | 0.0969 | 3.9245 | 1.4245 | 0.0170 | 0.6406 | 0.0193 | 0.6599 | 0.1845 | 0.0185 | 0.2029 | | | | | | 1,912.0821 |
| Worker | 3.4481 | 2.0406 | 33.0886 | 0.1092 | 15.0898 | 0.0693 | 15.1591 | 4.0019 | 0.0638 | 4.0657 | | | | | | 11,719.1326 |
| Total | 3.5450 | 5.9651 | 34.5131 | 0.1261 | 15.7304 | 0.0887 | 15.8190 | 4.1863 | 0.0823 | 4.2686 | | | | | | 13,631.2147 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating/Finishing - 2028****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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5407 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |
| Total | 60.6247 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0581 | 2.3547 | 0.8547 | 0.0102 | 0.3844 | 0.0116 | 0.3959 | 0.1107 | 0.0111 | 0.1218 | | | | | | 1,147.2493 |
| Worker | 3.7801 | 2.2371 | 36.2749 | 0.1197 | 16.5429 | 0.0760 | 16.6189 | 4.3873 | 0.0699 | 4.4572 | | | | | | 12,847.6417 |
| Total | 3.8383 | 4.5918 | 37.1296 | 0.1298 | 16.9273 | 0.0876 | 17.0148 | 4.4979 | 0.0810 | 4.5789 | | | | | | 13,994.8910 |

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0581 | 2.3547 | 0.8547 | 0.0102 | 0.3844 | 0.0116 | 0.3959 | 0.1107 | 0.0111 | 0.1218 | | | | | | 1,147.2493 |
| Worker | 3.7801 | 2.2371 | 36.2749 | 0.1197 | 16.5429 | 0.0760 | 16.6189 | 4.3873 | 0.0699 | 4.4572 | | | | | | 12,847.6417 |
| Total | 3.8383 | 4.5918 | 37.1296 | 0.1298 | 16.9273 | 0.0876 | 17.0148 | 4.4979 | 0.0810 | 4.5789 | | | | | | 13,994.8910 |

3.6 Architectural Coating/Finishing - 2029

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5407 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |
| Total | 60.6247 | 10.8011 | 16.7406 | 0.0268 | | 0.4997 | 0.4997 | | 0.4927 | 0.4927 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0570 | 2.3386 | 0.8489 | 9.9700e-003 | 0.3844 | 0.0115 | 0.3959 | 0.1107 | 0.0110 | 0.1217 | | | | | | 1,125.8237 |
| Worker | 3.5733 | 2.0682 | 34.6695 | 0.1169 | 16.5429 | 0.0709 | 16.6139 | 4.3873 | 0.0653 | 4.4525 | | | | | | 12,637.1673 |
| Total | 3.6303 | 4.4068 | 35.5185 | 0.1269 | 16.9273 | 0.0825 | 17.0097 | 4.4979 | 0.0763 | 4.5742 | | | | | | 13,762.9909 |

Mitigated Construction On-Site

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Archit. Coating | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0268 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,553.1104 |

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 |
| Vendor | 0.0570 | 2.3386 | 0.8489 | 9.9700e-003 | 0.3844 | 0.0115 | 0.3959 | 0.1107 | 0.0110 | 0.1217 | | | | | | 1,125.8237 |
| Worker | 3.5733 | 2.0682 | 34.6695 | 0.1169 | 16.5429 | 0.0709 | 16.6139 | 4.3873 | 0.0653 | 4.4525 | | | | | | 12,637.1673 |
| Total | 3.6303 | 4.4068 | 35.5185 | 0.1269 | 16.9273 | 0.0825 | 17.0097 | 4.4979 | 0.0763 | 4.5742 | | | | | | 13,762.9909 |

3.7 Paving/Landscape - 2029**Unmitigated Construction On-Site**

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.7164 | 7.2352 | 9.7203 | 0.0142 | | 0.3792 | 0.3792 | | 0.3489 | 0.3489 | | | | | | 1,387.8055 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.7164 | 7.2352 | 9.7203 | 0.0142 | | 0.3792 | 0.3792 | | 0.3489 | 0.3489 | | | | | | 1,387.8055 |

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 |
| Vendor | 9.5100e-003 | 0.3898 | 0.1415 | 1.6600e-003 | 0.0641 | 1.9200e-003 | 0.0660 | 0.0185 | 1.8400e-003 | 0.0203 | | | | | | 187.6373 |
| Worker | 0.2414 | 0.1397 | 2.3425 | 7.9000e-003 | 1.1178 | 4.7900e-003 | 1.1226 | 0.2964 | 4.4100e-003 | 0.3009 | | | | | | 853.8627 |
| Total | 0.2510 | 0.5295 | 2.4840 | 9.5600e-003 | 1.1818 | 6.7100e-003 | 1.1885 | 0.3149 | 6.2500e-003 | 0.3211 | | | | | | 1,041.4999 |

Mitigated Construction On-Site

TVC Construction Start Year of 2026 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.2255 | 2.8606 | 10.7687 | 0.0142 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,387.8055 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.2255 | 2.8606 | 10.7687 | 0.0142 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,387.8055 |

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 |
| Vendor | 9.5100e-003 | 0.3898 | 0.1415 | 1.6600e-003 | 0.0641 | 1.9200e-003 | 0.0660 | 0.0185 | 1.8400e-003 | 0.0203 | | | | | | 187.6373 |
| Worker | 0.2414 | 0.1397 | 2.3425 | 7.9000e-003 | 1.1178 | 4.7900e-003 | 1.1226 | 0.2964 | 4.4100e-003 | 0.3009 | | | | | | 853.8627 |
| Total | 0.2510 | 0.5295 | 2.4840 | 9.5600e-003 | 1.1818 | 6.7100e-003 | 1.1885 | 0.3149 | 6.2500e-003 | 0.3211 | | | | | | 1,041.4999 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Construction

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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| Industrial Park | 454.00 | 1000sqft | 10.42 | 454,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2035 |
| 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 -
- Construction Phase - Project Specific Construction Schedule
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Trips and VMT - Site Specific Trips

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 Equipment Mitigation

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 65.00 |
| tblConstructionPhase | NumDays | 155.00 | 185.00 |
| tblConstructionPhase | NumDays | 60.00 | 5.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 235.00 |
| tblConstructionPhase | NumDays | 110.00 | 304.00 |
| tblConstructionPhase | NumDays | 110.00 | 21.00 |
| tblGrading | MaterialExported | 0.00 | 772,000.00 |
| tblGrading | MaterialImported | 0.00 | 50,000.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|---------------------|----------------------------|------------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 145.00 |
| tblTripsAndVMT | HaulingTripNumber | 2,255.00 | 0.00 |
| tblTripsAndVMT | HaulingTripNumber | 102,750.00 | 8,572.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 80.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 640.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 1,000.00 |
| tblTripsAndVMT | VendorTripNumber | 655.00 | 100.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 60.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 68.00 | 490.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|----------------|------------------|----------|----------|
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,536.00 | 1,350.00 |
| tblTripsAndVMT | WorkerTripNumber | 307.00 | 1,480.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |

2.0 Emissions Summary**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 | | | | | |
| 2030 | 13.3321 | 223.4384 | 157.2849 | 1.0583 | 60.2973 | 2.6070 | 62.9043 | 20.2012 | 2.5537 | 22.7549 | | | | | | 116,846.8436 |
| 2031 | 10.0875 | 193.5730 | 120.8526 | 0.9052 | 49.4308 | 2.0436 | 51.4743 | 18.1539 | 1.9960 | 20.1498 | | | | | | 100,644.5775 |
| 2032 | 68.1262 | 27.5392 | 109.5698 | 0.3203 | 32.6577 | 0.5582 | 33.2158 | 8.6843 | 0.5479 | 9.2322 | | | | | | 33,996.2041 |
| 2033 | 64.2829 | 17.3886 | 60.1603 | 0.1719 | 18.1091 | 0.4466 | 18.5557 | 4.8128 | 0.4414 | 5.2542 | | | | | | 18,346.3449 |
| Maximum | 68.1262 | 223.4384 | 157.2849 | 1.0583 | 60.2973 | 2.6070 | 62.9043 | 20.2012 | 2.5537 | 22.7549 | | | | | | 116,846.8436 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|---------------------|
| 2030 | 6.5367 | 193.0439 | 190.3885 | 1.0583 | 43.4194 | 1.6020 | 45.0214 | 13.2988 | 1.5487 | 14.8475 | | | | | | 116,846.8436 |
| 2031 | 5.3630 | 172.9538 | 148.2756 | 0.9052 | 37.1335 | 1.3872 | 38.5206 | 11.9450 | 1.3396 | 13.2845 | | | | | | 100,644.5775 |
| 2032 | 66.0973 | 15.1412 | 113.3701 | 0.3203 | 32.6577 | 0.2797 | 32.9374 | 8.6843 | 0.2695 | 8.9538 | | | | | | 33,996.2041 |
| 2033 | 62.6939 | 8.4149 | 60.8462 | 0.1719 | 18.1091 | 0.1317 | 18.2408 | 4.8128 | 0.1265 | 4.9393 | | | | | | 18,346.3449 |
| Maximum | 66.0973 | 193.0439 | 190.3885 | 1.0583 | 43.4194 | 1.6020 | 45.0214 | 13.2988 | 1.5487 | 14.8475 | | | | | | 116,846.8436 |

| | 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 | 9.71 | 15.67 | -14.52 | 0.00 | 18.18 | 39.87 | 18.92 | 25.29 | 40.71 | 26.77 | 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 | 10/1/2030 | 12/31/2030 | 5 | 65 | |
| 2 | Excavation/Foundations | Grading | 10/16/2030 | 6/30/2031 | 5 | 185 | |
| 3 | Mat Foundation | Site Preparation | 7/1/2031 | 7/7/2031 | 5 | 5 | |
| 4 | Structure/Enclosure | Building Construction | 7/8/2031 | 5/31/2032 | 5 | 235 | |
| 5 | Architectural Coating/Finishing | Architectural Coating | 4/1/2032 | 5/31/2033 | 5 | 304 | |
| 6 | Paving/Landscape | Paving | 5/1/2033 | 5/31/2033 | 5 | 21 | |

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 277.5****Acres of Paving: 47.7****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,811,000; Non-Residential Outdoor: 937,000; Striped Parking Area: 127,200**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 4 | 8.00 | 158 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Bore/Drill Rigs | 6 | 8.00 | 221 | 0.50 |
| Excavation/Foundations | Cranes | 2 | 8.00 | 231 | 0.29 |
| Excavation/Foundations | Excavators | 3 | 8.00 | 158 | 0.38 |
| Excavation/Foundations | Graders | 0 | 8.00 | 187 | 0.41 |
| Excavation/Foundations | Other Construction Equipment | 2 | 8.00 | 172 | 0.42 |
| Excavation/Foundations | Pumps | 4 | 8.00 | 84 | 0.74 |
| Excavation/Foundations | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Rubber Tired Loaders | 2 | 8.00 | 203 | 0.36 |
| Excavation/Foundations | Scrapers | 0 | 8.00 | 367 | 0.48 |
| Excavation/Foundations | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Excavation/Foundations | Welders | 2 | 8.00 | 46 | 0.45 |
| Mat Foundation | Plate Compactors | 6 | 8.00 | 8 | 0.43 |
| Mat Foundation | Pumps | 6 | 8.00 | 84 | 0.74 |
| Mat Foundation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Mat Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Cranes | 0 | 7.00 | 231 | 0.29 |
| Structure/Enclosure | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Structure/Enclosure | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Other Construction Equipment | 4 | 8.00 | 172 | 0.42 |
| Structure/Enclosure | Pumps | 2 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating/Finishing | Air Compressors | 6 | 8.00 | 78 | 0.48 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|---------------------------------|--------------------|---|------|-----|------|
| Architectural Coating/Finishing | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Paving/Landscape | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving/Landscape | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving/Landscape | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving/Landscape | Skid Steer Loaders | 2 | 8.00 | 65 | 0.37 |
| Paving/Landscape | Trenchers | 1 | 8.00 | 78 | 0.50 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 9 | 100.00 | 80.00 | 0.00 | 14.70 | 32.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Excavation/Foundations | 27 | 490.00 | 640.00 | 8,572.00 | 14.70 | 32.00 | 145.00 | LD_Mix | HHDT | HHDT |
| Mat Foundation | 12 | 100.00 | 1,000.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HHDT | HHDT |
| Structure/Enclosure | 11 | 1,350.00 | 100.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating/Finishing | 8 | 1,480.00 | 60.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving/Landscape | 5 | 100.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2030**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 | | | | | 7.5093 | 0.0000 | 7.5093 | 1.1370 | 0.0000 | 1.1370 | | | | | | 0.0000 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Off-Road | 2.7358 | 12.6562 | 30.0902 | 0.0665 | | 0.4372 | 0.4372 | | 0.4372 | 0.4372 | | | | | | 6,303.1618 |
| Total | 2.7358 | 12.6562 | 30.0902 | 0.0665 | 7.5093 | 0.4372 | 7.9465 | 1.1370 | 0.4372 | 1.5742 | | | | | | 6,303.1618 |

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 |
| Vendor | 0.1993 | 15.5953 | 4.1402 | 0.0638 | 2.2399 | 0.1019 | 2.3418 | 0.6141 | 0.0975 | 0.7116 | | | | | | 7,426.8028 |
| Worker | 0.2282 | 0.1298 | 2.2490 | 7.7300e-003 | 1.1178 | 4.4800e-003 | 1.1223 | 0.2964 | 4.1200e-003 | 0.3006 | | | | | | 841.4502 |
| Total | 0.4274 | 15.7251 | 6.3892 | 0.0715 | 3.3576 | 0.1064 | 3.4640 | 0.9105 | 0.1016 | 1.0121 | | | | | | 8,268.2529 |

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 | | | | | 2.9286 | 0.0000 | 2.9286 | 0.4434 | 0.0000 | 0.4434 | | | | | | 0.0000 |
| Off-Road | 0.6648 | 2.8810 | 35.7707 | 0.0665 | | 0.0886 | 0.0886 | | 0.0886 | 0.0886 | | | | | | 6,303.1618 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Total | 0.6648 | 2.8810 | 35.7707 | 0.0665 | 2.9286 | 0.0886 | 3.0173 | 0.4434 | 0.0886 | 0.5321 | | | | | | 6,303.1618 |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|

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 |
| Vendor | 0.1993 | 15.5953 | 4.1402 | 0.0638 | 2.2399 | 0.1019 | 2.3418 | 0.6141 | 0.0975 | 0.7116 | | | | | | 7,426.8028 |
| Worker | 0.2282 | 0.1298 | 2.2490 | 7.7300e-003 | 1.1178 | 4.4800e-003 | 1.1223 | 0.2964 | 4.1200e-003 | 0.3006 | | | | | | 841.4502 |
| Total | 0.4274 | 15.7251 | 6.3892 | 0.0715 | 3.3576 | 0.1064 | 3.4640 | 0.9105 | 0.1016 | 1.0121 | | | | | | 8,268.2529 |

3.3 Excavation/Foundations - 2030**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 7.0846 | 31.8155 | 68.3100 | 0.2083 | | 0.9602 | 0.9602 | | 0.9602 | 0.9602 | | | | | | 19,679.3889 |
| Total | 7.0846 | 31.8155 | 68.3100 | 0.2083 | 20.1595 | 0.9602 | 21.1197 | 10.1785 | 0.9602 | 11.1388 | | | | | | 19,679.3889 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3721 | 37.8429 | 8.3538 | 0.1636 | 5.8749 | 0.2658 | 6.1408 | 1.6103 | 0.2543 | 1.8646 | | | | | | 19,058.5123 |
| Vendor | 1.5942 | 124.7627 | 33.1216 | 0.5104 | 17.9190 | 0.8154 | 18.7343 | 4.9124 | 0.7801 | 5.6925 | | | | | | 59,414.4220 |
| Worker | 1.1180 | 0.6359 | 11.0201 | 0.0379 | 5.4771 | 0.0220 | 5.4990 | 1.4525 | 0.0202 | 1.4728 | | | | | | 4,123.1058 |
| Total | 3.0843 | 163.2415 | 52.4955 | 0.7120 | 29.2710 | 1.1032 | 30.3741 | 7.9752 | 1.0546 | 9.0298 | | | | | | 82,596.0400 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.3601 | 11.1963 | 95.7331 | 0.2083 | | 0.3038 | 0.3038 | | 0.3038 | 0.3038 | | | | | | 19,679.3888 |
| Total | 2.3601 | 11.1963 | 95.7331 | 0.2083 | 7.8622 | 0.3038 | 8.1660 | 3.9696 | 0.3038 | 4.2735 | | | | | | 19,679.3888 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3721 | 37.8429 | 8.3538 | 0.1636 | 5.8749 | 0.2658 | 6.1408 | 1.6103 | 0.2543 | 1.8646 | | | | | | 19,058.5123 |
| Vendor | 1.5942 | 124.7627 | 33.1216 | 0.5104 | 17.9190 | 0.8154 | 18.7343 | 4.9124 | 0.7801 | 5.6925 | | | | | | 59,414.4220 |
| Worker | 1.1180 | 0.6359 | 11.0201 | 0.0379 | 5.4771 | 0.0220 | 5.4990 | 1.4525 | 0.0202 | 1.4728 | | | | | | 4,123.1058 |
| Total | 3.0843 | 163.2415 | 52.4955 | 0.7120 | 29.2710 | 1.1032 | 30.3741 | 7.9752 | 1.0546 | 9.0298 | | | | | | 82,596.0400 |

3.3 Excavation/Foundations - 2031**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 7.0846 | 31.8155 | 68.3100 | 0.2083 | | 0.9602 | 0.9602 | | 0.9602 | 0.9602 | | | | | | 19,679.3889 |
| Total | 7.0846 | 31.8155 | 68.3100 | 0.2083 | 20.1595 | 0.9602 | 21.1197 | 10.1785 | 0.9602 | 11.1388 | | | | | | 19,679.3889 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3679 | 37.4893 | 8.4584 | 0.1601 | 5.8750 | 0.2613 | 6.1363 | 1.6103 | 0.2500 | 1.8603 | | | | | | 18,672.996 2 |
| Vendor | 1.5815 | 123.6765 | 33.4579 | 0.4995 | 17.9192 | 0.8014 | 18.7206 | 4.9125 | 0.7667 | 5.6792 | | | | | | 58,217.971 3 |
| Worker | 1.0536 | 0.5916 | 10.6262 | 0.0372 | 5.4771 | 0.0207 | 5.4977 | 1.4525 | 0.0190 | 1.4716 | | | | | | 4,074.2212 |
| Total | 3.0029 | 161.7575 | 52.5425 | 0.6969 | 29.2713 | 1.0834 | 30.3546 | 7.9753 | 1.0357 | 9.0111 | | | | | | 80,965.188 6 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.3601 | 11.1963 | 95.7331 | 0.2083 | | 0.3038 | 0.3038 | | 0.3038 | 0.3038 | | | | | | 19,679.388 8 |
| Total | 2.3601 | 11.1963 | 95.7331 | 0.2083 | 7.8622 | 0.3038 | 8.1660 | 3.9696 | 0.3038 | 4.2735 | | | | | | 19,679.388 8 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.3679 | 37.4893 | 8.4584 | 0.1601 | 5.8750 | 0.2613 | 6.1363 | 1.6103 | 0.2500 | 1.8603 | | | | | | 18,672.996 2 |
| Vendor | 1.5815 | 123.6765 | 33.4579 | 0.4995 | 17.9192 | 0.8014 | 18.7206 | 4.9125 | 0.7667 | 5.6792 | | | | | | 58,217.971 3 |
| Worker | 1.0536 | 0.5916 | 10.6262 | 0.0372 | 5.4771 | 0.0207 | 5.4977 | 1.4525 | 0.0190 | 1.4716 | | | | | | 4,074.2212 |
| Total | 3.0029 | 161.7575 | 52.5425 | 0.6969 | 29.2713 | 1.0834 | 30.3546 | 7.9753 | 1.0357 | 9.0111 | | | | | | 80,965.188 6 |

3.4 Mat Foundation - 2031**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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5102 | 12.4403 | 23.4106 | 0.0424 | | 0.2954 | 0.2954 | | 0.2954 | 0.2954 | | | | | | 3,948.4163 |
| Total | 1.5102 | 12.4403 | 23.4106 | 0.0424 | 0.0000 | 0.2954 | 0.2954 | 0.0000 | 0.2954 | 0.2954 | | | | | | 3,948.4163 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2564 | 56.4504 | 23.3415 | 0.1863 | 6.0540 | 0.2777 | 6.3317 | 1.6612 | 0.2657 | 1.9269 | | | | | | 21,655.5833 |
| Worker | 0.2150 | 0.1207 | 2.1686 | 7.5900e-003 | 1.1178 | 4.2200e-003 | 1.1220 | 0.2964 | 3.8800e-003 | 0.3003 | | | | | | 831.4737 |
| Total | 1.4714 | 56.5711 | 25.5102 | 0.1939 | 7.1717 | 0.2820 | 7.4537 | 1.9576 | 0.2696 | 2.2272 | | | | | | 22,487.0570 |

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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.6353 | 3.2181 | 25.6010 | 0.0424 | | 0.1112 | 0.1112 | | 0.1112 | 0.1112 | | | | | | 3,948.4163 |
| Total | 0.6353 | 3.2181 | 25.6010 | 0.0424 | 0.0000 | 0.1112 | 0.1112 | 0.0000 | 0.1112 | 0.1112 | | | | | | 3,948.4163 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2564 | 56.4504 | 23.3415 | 0.1863 | 6.0540 | 0.2777 | 6.3317 | 1.6612 | 0.2657 | 1.9269 | | | | | | 21,655.5833 |
| Worker | 0.2150 | 0.1207 | 2.1686 | 7.5900e-003 | 1.1178 | 4.2200e-003 | 1.1220 | 0.2964 | 3.8800e-003 | 0.3003 | | | | | | 831.4737 |
| Total | 1.4714 | 56.5711 | 25.5102 | 0.1939 | 7.1717 | 0.2820 | 7.4537 | 1.9576 | 0.2696 | 2.2272 | | | | | | 22,487.0570 |

3.5 Structure/Enclosure - 2031**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 | 1.9214 | 10.3776 | 31.2528 | 0.0564 | | 0.2408 | 0.2408 | | 0.2408 | 0.2408 | | | | | | 5,278.0613 |
| Total | 1.9214 | 10.3776 | 31.2528 | 0.0564 | | 0.2408 | 0.2408 | | 0.2408 | 0.2408 | | | | | | 5,278.0613 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0925 | 3.8531 | 1.4069 | 0.0160 | 0.6406 | 0.0188 | 0.6593 | 0.1845 | 0.0179 | 0.2024 | | | | | | 1,809.7948 |
| Worker | 2.9027 | 1.6299 | 29.2763 | 0.1025 | 15.0898 | 0.0569 | 15.1467 | 4.0019 | 0.0524 | 4.0543 | | | | | | 11,224.8950 |
| Total | 2.9952 | 5.4830 | 30.6833 | 0.1185 | 15.7304 | 0.0757 | 15.8061 | 4.1863 | 0.0703 | 4.2567 | | | | | | 13,034.6898 |

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 | 0.8408 | 4.6128 | 34.8378 | 0.0564 | | 0.1013 | 0.1013 | | 0.1013 | 0.1013 | | | | | | 5,278.0613 |
| Total | 0.8408 | 4.6128 | 34.8378 | 0.0564 | | 0.1013 | 0.1013 | | 0.1013 | 0.1013 | | | | | | 5,278.0613 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0925 | 3.8531 | 1.4069 | 0.0160 | 0.6406 | 0.0188 | 0.6593 | 0.1845 | 0.0179 | 0.2024 | | | | | | 1,809.7948 |
| Worker | 2.9027 | 1.6299 | 29.2763 | 0.1025 | 15.0898 | 0.0569 | 15.1467 | 4.0019 | 0.0524 | 4.0543 | | | | | | 11,224.8950 |
| Total | 2.9952 | 5.4830 | 30.6833 | 0.1185 | 15.7304 | 0.0757 | 15.8061 | 4.1863 | 0.0703 | 4.2567 | | | | | | 13,034.6898 |

3.5 Structure/Enclosure - 2032**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 | 1.9214 | 10.3776 | 31.2528 | 0.0564 | | 0.2408 | 0.2408 | | 0.2408 | 0.2408 | | | | | | 5,278.0613 |
| Total | 1.9214 | 10.3776 | 31.2528 | 0.0564 | | 0.2408 | 0.2408 | | 0.2408 | 0.2408 | | | | | | 5,278.0613 |

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 |
| Vendor | 0.0917 | 3.8335 | 1.4072 | 0.0158 | 0.6406 | 0.0186 | 0.6592 | 0.1845 | 0.0178 | 0.2023 | | | | | | 1,781.0847 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Worker | 2.7431 | 1.5272 | 28.2872 | 0.1007 | 15.0898 | 0.0534 | 15.1432 | 4.0019 | 0.0491 | 4.0510 | | | | | | 11,094.4864 |
| Total | 2.8348 | 5.3607 | 29.6944 | 0.1165 | 15.7304 | 0.0720 | 15.8024 | 4.1864 | 0.0669 | 4.2533 | | | | | | 12,875.5711 |

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 | 0.8408 | 4.6128 | 34.8378 | 0.0564 | | 0.1013 | 0.1013 | | 0.1013 | 0.1013 | | | | | | 5,278.0613 |
| Total | 0.8408 | 4.6128 | 34.8378 | 0.0564 | | 0.1013 | 0.1013 | | 0.1013 | 0.1013 | | | | | | 5,278.0613 |

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 |
| Vendor | 0.0917 | 3.8335 | 1.4072 | 0.0158 | 0.6406 | 0.0186 | 0.6592 | 0.1845 | 0.0178 | 0.2023 | | | | | | 1,781.0847 |
| Worker | 2.7431 | 1.5272 | 28.2872 | 0.1007 | 15.0898 | 0.0534 | 15.1432 | 4.0019 | 0.0491 | 4.0510 | | | | | | 11,094.4864 |
| Total | 2.8348 | 5.3607 | 29.6944 | 0.1165 | 15.7304 | 0.0720 | 15.8024 | 4.1864 | 0.0669 | 4.2533 | | | | | | 12,875.5711 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating/Finishing - 2032****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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.2237 | 7.8266 | 16.7673 | 0.0275 | | 0.1756 | 0.1756 | | 0.1756 | 0.1756 | | | | | | 2,611.0765 |
| Total | 60.3077 | 7.8266 | 16.7673 | 0.0275 | | 0.1756 | 0.1756 | | 0.1756 | 0.1756 | | | | | | 2,611.0765 |

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 |
| Vendor | 0.0550 | 2.3001 | 0.8443 | 9.4500e-003 | 0.3844 | 0.0112 | 0.3955 | 0.1107 | 0.0107 | 0.1214 | | | | | | 1,068.6508 |
| Worker | 3.0072 | 1.6743 | 31.0111 | 0.1104 | 16.5429 | 0.0585 | 16.6014 | 4.3873 | 0.0539 | 4.4411 | | | | | | 12,162.8444 |
| Total | 3.0623 | 3.9743 | 31.8554 | 0.1199 | 16.9273 | 0.0697 | 16.9970 | 4.4979 | 0.0645 | 4.5625 | | | | | | 13,231.4952 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,611.0765 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,611.0765 |

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 |
| Vendor | 0.0550 | 2.3001 | 0.8443 | 9.4500e-003 | 0.3844 | 0.0112 | 0.3955 | 0.1107 | 0.0107 | 0.1214 | | | | | | 1,068.6508 |
| Worker | 3.0072 | 1.6743 | 31.0111 | 0.1104 | 16.5429 | 0.0585 | 16.6014 | 4.3873 | 0.0539 | 4.4411 | | | | | | 12,162.8444 |
| Total | 3.0623 | 3.9743 | 31.8554 | 0.1199 | 16.9273 | 0.0697 | 16.9970 | 4.4979 | 0.0645 | 4.5625 | | | | | | 13,231.4952 |

3.6 Architectural Coating/Finishing - 2033

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.2237 | 7.8266 | 16.7673 | 0.0275 | | 0.1756 | 0.1756 | | 0.1756 | 0.1756 | | | | | | 2,611.0765 |
| Total | 60.3077 | 7.8266 | 16.7673 | 0.0275 | | 0.1756 | 0.1756 | | 0.1756 | 0.1756 | | | | | | 2,611.0765 |

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 |
| Vendor | 0.0547 | 2.2907 | 0.8457 | 9.3100e-003 | 0.3844 | 0.0111 | 0.3955 | 0.1107 | 0.0106 | 0.1213 | | | | | | 1,053.0933 |
| Worker | 2.8524 | 1.5815 | 30.0763 | 0.1087 | 16.5429 | 0.0550 | 16.5979 | 4.3873 | 0.0506 | 4.4379 | | | | | | 12,037.3855 |
| Total | 2.9071 | 3.8723 | 30.9220 | 0.1180 | 16.9273 | 0.0661 | 16.9934 | 4.4979 | 0.0613 | 4.5592 | | | | | | 13,090.4788 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Archit. Coating | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,611.0765 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,611.0765 |

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 |
| Vendor | 0.0547 | 2.2907 | 0.8457 | 9.3100e-003 | 0.3844 | 0.0111 | 0.3955 | 0.1107 | 0.0106 | 0.1213 | | | | | | 1,053.0933 |
| Worker | 2.8524 | 1.5815 | 30.0763 | 0.1087 | 16.5429 | 0.0550 | 16.5979 | 4.3873 | 0.0506 | 4.4379 | | | | | | 12,037.3855 |
| Total | 2.9071 | 3.8723 | 30.9220 | 0.1180 | 16.9273 | 0.0661 | 16.9934 | 4.4979 | 0.0613 | 4.5592 | | | | | | 13,090.4788 |

3.7 Paving/Landscape - 2033**Unmitigated Construction On-Site**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.8662 | 5.2011 | 10.2979 | 0.0175 | | 0.1993 | 0.1993 | | 0.1993 | 0.1993 | | | | | | 1,655.9371 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.8662 | 5.2011 | 10.2979 | 0.0175 | | 0.1993 | 0.1993 | | 0.1993 | 0.1993 | | | | | | 1,655.9371 |

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 |
| Vendor | 9.1200e-003 | 0.3818 | 0.1410 | 1.5500e-003 | 0.0641 | 1.8500e-003 | 0.0659 | 0.0185 | 1.7700e-003 | 0.0202 | | | | | | 175.5156 |
| Worker | 0.1927 | 0.1069 | 2.0322 | 7.3500e-003 | 1.1178 | 3.7200e-003 | 1.1215 | 0.2964 | 3.4200e-003 | 0.2999 | | | | | | 813.3369 |
| Total | 0.2019 | 0.4887 | 2.1731 | 8.9000e-003 | 1.1818 | 5.5700e-003 | 1.1874 | 0.3149 | 5.1900e-003 | 0.3201 | | | | | | 988.8524 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Construction

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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| Industrial Park | 454.00 | 1000sqft | 10.42 | 454,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2040 |
| 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 -
- Construction Phase - Project Specific Construction Schedule
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Trips and VMT - Site Specific Trips

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 Equipment Mitigation

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 65.00 |
| tblConstructionPhase | NumDays | 155.00 | 185.00 |
| tblConstructionPhase | NumDays | 60.00 | 5.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 235.00 |
| tblConstructionPhase | NumDays | 110.00 | 304.00 |
| tblConstructionPhase | NumDays | 110.00 | 21.00 |
| tblGrading | MaterialExported | 0.00 | 772,000.00 |
| tblGrading | MaterialImported | 0.00 | 50,000.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|---------------------|----------------------------|------------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 145.00 |
| tblTripsAndVMT | HaulingTripNumber | 2,255.00 | 0.00 |
| tblTripsAndVMT | HaulingTripNumber | 102,750.00 | 8,572.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 80.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 640.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 1,000.00 |
| tblTripsAndVMT | VendorTripNumber | 655.00 | 100.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 60.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 68.00 | 490.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|----------------|------------------|----------|----------|
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,536.00 | 1,350.00 |
| tblTripsAndVMT | WorkerTripNumber | 307.00 | 1,480.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |

2.0 Emissions Summary**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 | | | | | |
| 2035 | 12.0571 | 206.1162 | 156.5924 | 0.9882 | 60.2990 | 2.0681 | 62.3670 | 20.2018 | 2.0177 | 22.2195 | | | | | | 109,236.75 17 |
| 2036 | 9.2484 | 181.7727 | 120.4861 | 0.8565 | 49.4320 | 1.6897 | 51.1216 | 18.1543 | 1.6438 | 19.7981 | | | | | | 95,343.474 7 |
| 2037 | 67.0701 | 24.9463 | 104.7028 | 0.3106 | 32.6577 | 0.3543 | 33.0120 | 8.6843 | 0.3455 | 9.0298 | | | | | | 33,248.503 2 |
| 2038 | 63.7726 | 15.4083 | 58.4217 | 0.1686 | 18.1091 | 0.2707 | 18.3798 | 4.8128 | 0.2660 | 5.0788 | | | | | | 18,094.788 2 |
| Maximum | 67.0701 | 206.1162 | 156.5924 | 0.9882 | 60.2990 | 2.0681 | 62.3670 | 20.2018 | 2.0177 | 22.2195 | | | | | | 109,236.75 17 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------------|
| 2035 | 6.1308 | 185.5021 | 190.2829 | 0.9882 | 43.4210 | 1.5225 | 44.9436 | 13.2994 | 1.4722 | 14.7715 | | | | | | 109,236.75 17 |
| 2036 | 5.0966 | 167.5516 | 148.2843 | 0.8565 | 37.1347 | 1.3335 | 38.4681 | 11.9454 | 1.2876 | 13.2330 | | | | | | 95,343.474 7 |
| 2037 | 65.2697 | 14.5353 | 108.5574 | 0.3106 | 32.6577 | 0.2439 | 32.9016 | 8.6843 | 0.2351 | 8.9194 | | | | | | 33,248.503 2 |
| 2038 | 62.4153 | 8.2471 | 59.1697 | 0.1686 | 18.1091 | 0.1250 | 18.2340 | 4.8128 | 0.1202 | 4.9330 | | | | | | 18,094.788 2 |
| Maximum | 65.2697 | 185.5021 | 190.2829 | 0.9882 | 43.4210 | 1.5225 | 44.9436 | 13.2994 | 1.4722 | 14.7715 | | | | | | 109,236.75 17 |

| | 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 | 8.70 | 12.24 | -15.01 | 0.00 | 18.18 | 26.42 | 18.40 | 25.29 | 27.10 | 25.42 | 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 | 10/1/2035 | 12/31/2035 | 5 | 65 | |
| 2 | Excavation/Foundations | Grading | 10/16/2035 | 6/30/2036 | 5 | 185 | |
| 3 | Mat Foundation | Site Preparation | 7/1/2036 | 7/7/2036 | 5 | 5 | |
| 4 | Structure/Enclosure | Building Construction | 7/8/2036 | 5/31/2037 | 5 | 235 | |
| 5 | Architectural Coating/Finishing | Architectural Coating | 4/1/2037 | 5/31/2038 | 5 | 304 | |
| 6 | Paving/Landscape | Paving | 5/1/2038 | 5/31/2038 | 5 | 21 | |

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 277.5****Acres of Paving: 47.7****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,811,000; Non-Residential Outdoor: 937,000; Striped Parking Area: 127,200**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 4 | 8.00 | 158 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Bore/Drill Rigs | 6 | 8.00 | 221 | 0.50 |
| Excavation/Foundations | Cranes | 2 | 8.00 | 231 | 0.29 |
| Excavation/Foundations | Excavators | 3 | 8.00 | 158 | 0.38 |
| Excavation/Foundations | Graders | 0 | 8.00 | 187 | 0.41 |
| Excavation/Foundations | Other Construction Equipment | 2 | 8.00 | 172 | 0.42 |
| Excavation/Foundations | Pumps | 4 | 8.00 | 84 | 0.74 |
| Excavation/Foundations | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Rubber Tired Loaders | 2 | 8.00 | 203 | 0.36 |
| Excavation/Foundations | Scrapers | 0 | 8.00 | 367 | 0.48 |
| Excavation/Foundations | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Excavation/Foundations | Welders | 2 | 8.00 | 46 | 0.45 |
| Mat Foundation | Plate Compactors | 6 | 8.00 | 8 | 0.43 |
| Mat Foundation | Pumps | 6 | 8.00 | 84 | 0.74 |
| Mat Foundation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Mat Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Cranes | 0 | 7.00 | 231 | 0.29 |
| Structure/Enclosure | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Structure/Enclosure | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Other Construction Equipment | 4 | 8.00 | 172 | 0.42 |
| Structure/Enclosure | Pumps | 2 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating/Finishing | Air Compressors | 6 | 8.00 | 78 | 0.48 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|---------------------------------|--------------------|---|------|-----|------|
| Architectural Coating/Finishing | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Paving/Landscape | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving/Landscape | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving/Landscape | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving/Landscape | Skid Steer Loaders | 2 | 8.00 | 65 | 0.37 |
| Paving/Landscape | Trenchers | 1 | 8.00 | 78 | 0.50 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 9 | 100.00 | 80.00 | 0.00 | 14.70 | 32.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Excavation/Foundations | 27 | 490.00 | 640.00 | 8,572.00 | 14.70 | 32.00 | 145.00 | LD_Mix | HHDT | HHDT |
| Mat Foundation | 12 | 100.00 | 1,000.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HHDT | HHDT |
| Structure/Enclosure | 11 | 1,350.00 | 100.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating/Finishing | 8 | 1,480.00 | 60.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving/Landscape | 5 | 100.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2035**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 | | | | | 7.5093 | 0.0000 | 7.5093 | 1.1370 | 0.0000 | 1.1370 | | | | | | 0.0000 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Off-Road | 2.4394 | 9.2740 | 29.8782 | 0.0665 | | 0.2780 | 0.2780 | | 0.2780 | 0.2780 | | | | | | 6,302.4304 |
| Total | 2.4394 | 9.2740 | 29.8782 | 0.0665 | 7.5093 | 0.2780 | 7.7872 | 1.1370 | 0.2780 | 1.4149 | | | | | | 6,302.4304 |

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 |
| Vendor | 0.1942 | 14.9719 | 4.3022 | 0.0581 | 2.2400 | 0.0971 | 2.3371 | 0.6141 | 0.0929 | 0.7070 | | | | | | 6,791.3486 |
| Worker | 0.1751 | 0.0977 | 1.9258 | 7.1500e-003 | 1.1178 | 3.3000e-003 | 1.1211 | 0.2964 | 3.0400e-003 | 0.2995 | | | | | | 799.4980 |
| Total | 0.3693 | 15.0696 | 6.2280 | 0.0652 | 3.3578 | 0.1004 | 3.4582 | 0.9105 | 0.0960 | 1.0065 | | | | | | 7,590.8466 |

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 | | | | | 2.9286 | 0.0000 | 2.9286 | 0.4434 | 0.0000 | 0.4434 | | | | | | 0.0000 |
| Off-Road | 0.6648 | 2.8810 | 35.7707 | 0.0665 | | 0.0886 | 0.0886 | | 0.0886 | 0.0886 | | | | | | 6,302.4304 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Total | 0.6648 | 2.8810 | 35.7707 | 0.0665 | 2.9286 | 0.0886 | 3.0173 | 0.4434 | 0.0886 | 0.5321 | | | | | | 6,302.4304 |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|

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 |
| Vendor | 0.1942 | 14.9719 | 4.3022 | 0.0581 | 2.2400 | 0.0971 | 2.3371 | 0.6141 | 0.0929 | 0.7070 | | | | | | 6,791.3486 |
| Worker | 0.1751 | 0.0977 | 1.9258 | 7.1500e-003 | 1.1178 | 3.3000e-003 | 1.1211 | 0.2964 | 3.0400e-003 | 0.2995 | | | | | | 799.4980 |
| Total | 0.3693 | 15.0696 | 6.2280 | 0.0652 | 3.3578 | 0.1004 | 3.4582 | 0.9105 | 0.0960 | 1.0065 | | | | | | 7,590.8466 |

3.3 Excavation/Foundations - 2035**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 6.4804 | 25.3254 | 67.9072 | 0.2083 | | 0.6433 | 0.6433 | | 0.6433 | 0.6433 | | | | | | 19,677.9905 |
| Total | 6.4804 | 25.3254 | 67.9072 | 0.2083 | 20.1595 | 0.6433 | 20.8027 | 10.1785 | 0.6433 | 10.8218 | | | | | | 19,677.9905 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3564 | 36.1936 | 8.7247 | 0.1488 | 5.8753 | 0.2533 | 6.1287 | 1.6104 | 0.2424 | 1.8528 | | | | | | 17,417.1554 |
| Vendor | 1.5534 | 119.7752 | 34.4176 | 0.4644 | 17.9201 | 0.7769 | 18.6970 | 4.9128 | 0.7433 | 5.6561 | | | | | | 54,330.7885 |
| Worker | 0.8582 | 0.4785 | 9.4366 | 0.0351 | 5.4771 | 0.0162 | 5.4932 | 1.4525 | 0.0149 | 1.4674 | | | | | | 3,917.5403 |
| Total | 2.7679 | 156.4473 | 52.5789 | 0.6482 | 29.2725 | 1.0464 | 30.3189 | 7.9758 | 1.0006 | 8.9763 | | | | | | 75,665.4842 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.3287 | 11.1043 | 95.7054 | 0.2083 | | 0.2870 | 0.2870 | | 0.2870 | 0.2870 | | | | | | 19,677.9905 |
| Total | 2.3287 | 11.1043 | 95.7054 | 0.2083 | 7.8622 | 0.2870 | 8.1492 | 3.9696 | 0.2870 | 4.2567 | | | | | | 19,677.9905 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3564 | 36.1936 | 8.7247 | 0.1488 | 5.8753 | 0.2533 | 6.1287 | 1.6104 | 0.2424 | 1.8528 | | | | | | 17,417.1554 |
| Vendor | 1.5534 | 119.7752 | 34.4176 | 0.4644 | 17.9201 | 0.7769 | 18.6970 | 4.9128 | 0.7433 | 5.6561 | | | | | | 54,330.7885 |
| Worker | 0.8582 | 0.4785 | 9.4366 | 0.0351 | 5.4771 | 0.0162 | 5.4932 | 1.4525 | 0.0149 | 1.4674 | | | | | | 3,917.5403 |
| Total | 2.7679 | 156.4473 | 52.5789 | 0.6482 | 29.2725 | 1.0464 | 30.3189 | 7.9758 | 1.0006 | 8.9763 | | | | | | 75,665.4842 |

3.3 Excavation/Foundations - 2036**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 6.4804 | 25.3254 | 67.9072 | 0.2083 | | 0.6433 | 0.6433 | | 0.6433 | 0.6433 | | | | | | 19,677.9905 |
| Total | 6.4804 | 25.3254 | 67.9072 | 0.2083 | 20.1595 | 0.6433 | 20.8027 | 10.1785 | 0.6433 | 10.8218 | | | | | | 19,677.9905 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3564 | 36.1936 | 8.7247 | 0.1488 | 5.8753 | 0.2533 | 6.1287 | 1.6104 | 0.2424 | 1.8528 | | | | | | 17,417.1554 |
| Vendor | 1.5534 | 119.7752 | 34.4176 | 0.4644 | 17.9201 | 0.7769 | 18.6970 | 4.9128 | 0.7433 | 5.6561 | | | | | | 54,330.7885 |
| Worker | 0.8582 | 0.4785 | 9.4366 | 0.0351 | 5.4771 | 0.0162 | 5.4932 | 1.4525 | 0.0149 | 1.4674 | | | | | | 3,917.5403 |
| Total | 2.7679 | 156.4473 | 52.5789 | 0.6482 | 29.2725 | 1.0464 | 30.3189 | 7.9758 | 1.0006 | 8.9763 | | | | | | 75,665.4842 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.3287 | 11.1043 | 95.7054 | 0.2083 | | 0.2870 | 0.2870 | | 0.2870 | 0.2870 | | | | | | 19,677.9905 |
| Total | 2.3287 | 11.1043 | 95.7054 | 0.2083 | 7.8622 | 0.2870 | 8.1492 | 3.9696 | 0.2870 | 4.2567 | | | | | | 19,677.9905 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.3564 | 36.1936 | 8.7247 | 0.1488 | 5.8753 | 0.2533 | 6.1287 | 1.6104 | 0.2424 | 1.8528 | | | | | | 17,417.1554 |
| Vendor | 1.5534 | 119.7752 | 34.4176 | 0.4644 | 17.9201 | 0.7769 | 18.6970 | 4.9128 | 0.7433 | 5.6561 | | | | | | 54,330.7885 |
| Worker | 0.8582 | 0.4785 | 9.4366 | 0.0351 | 5.4771 | 0.0162 | 5.4932 | 1.4525 | 0.0149 | 1.4674 | | | | | | 3,917.5403 |
| Total | 2.7679 | 156.4473 | 52.5789 | 0.6482 | 29.2725 | 1.0464 | 30.3189 | 7.9758 | 1.0006 | 8.9763 | | | | | | 75,665.4842 |

3.4 Mat Foundation - 2036**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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.3589 | 11.1773 | 23.3649 | 0.0424 | | 0.1704 | 0.1704 | | 0.1704 | 0.1704 | | | | | | 3,948.0874 |
| Total | 1.3589 | 11.1773 | 23.3649 | 0.0424 | 0.0000 | 0.1704 | 0.1704 | 0.0000 | 0.1704 | 0.1704 | | | | | | 3,948.0874 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2578 | 55.2124 | 23.8977 | 0.1736 | 6.0543 | 0.2691 | 6.3234 | 1.6613 | 0.2575 | 1.9187 | | | | | | 20,253.0592 |
| Worker | 0.1751 | 0.0977 | 1.9258 | 7.1500e-003 | 1.1178 | 3.3000e-003 | 1.1211 | 0.2964 | 3.0400e-003 | 0.2995 | | | | | | 799.4980 |
| Total | 1.4329 | 55.3101 | 25.8235 | 0.1807 | 7.1720 | 0.2724 | 7.4444 | 1.9577 | 0.2605 | 2.2182 | | | | | | 21,052.5572 |

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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.6353 | 3.2181 | 25.6014 | 0.0424 | | 0.1112 | 0.1112 | | 0.1112 | 0.1112 | | | | | | 3,948.0874 |
| Total | 0.6353 | 3.2181 | 25.6014 | 0.0424 | 0.0000 | 0.1112 | 0.1112 | 0.0000 | 0.1112 | 0.1112 | | | | | | 3,948.0874 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2578 | 55.2124 | 23.8977 | 0.1736 | 6.0543 | 0.2691 | 6.3234 | 1.6613 | 0.2575 | 1.9187 | | | | | | 20,253.0592 |
| Worker | 0.1751 | 0.0977 | 1.9258 | 7.1500e-003 | 1.1178 | 3.3000e-003 | 1.1211 | 0.2964 | 3.0400e-003 | 0.2995 | | | | | | 799.4980 |
| Total | 1.4329 | 55.3101 | 25.8235 | 0.1807 | 7.1720 | 0.2724 | 7.4444 | 1.9577 | 0.2605 | 2.2182 | | | | | | 21,052.5572 |

3.5 Structure/Enclosure - 2036**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 | 1.7696 | 9.1247 | 31.2060 | 0.0564 | | 0.1423 | 0.1423 | | 0.1423 | 0.1423 | | | | | | 5,277.7197 |
| Total | 1.7696 | 9.1247 | 31.2060 | 0.0564 | | 0.1423 | 0.1423 | | 0.1423 | 0.1423 | | | | | | 5,277.7197 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0903 | 3.7859 | 1.4149 | 0.0151 | 0.6406 | 0.0183 | 0.6589 | 0.1845 | 0.0175 | 0.2020 | | | | | | 1,708.8293 |
| Worker | 2.3643 | 1.3184 | 25.9987 | 0.0966 | 15.0898 | 0.0445 | 15.1344 | 4.0019 | 0.0410 | 4.0429 | | | | | | 10,793.2232 |
| Total | 2.4546 | 5.1043 | 27.4136 | 0.1117 | 15.7304 | 0.0629 | 15.7933 | 4.1864 | 0.0585 | 4.2449 | | | | | | 12,502.0525 |

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 | 0.8094 | 4.5208 | 34.8101 | 0.0564 | | 0.0845 | 0.0845 | | 0.0845 | 0.0845 | | | | | | 5,277.7197 |
| Total | 0.8094 | 4.5208 | 34.8101 | 0.0564 | | 0.0845 | 0.0845 | | 0.0845 | 0.0845 | | | | | | 5,277.7197 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0903 | 3.7859 | 1.4149 | 0.0151 | 0.6406 | 0.0183 | 0.6589 | 0.1845 | 0.0175 | 0.2020 | | | | | | 1,708.8293 |
| Worker | 2.3643 | 1.3184 | 25.9987 | 0.0966 | 15.0898 | 0.0445 | 15.1344 | 4.0019 | 0.0410 | 4.0429 | | | | | | 10,793.2232 |
| Total | 2.4546 | 5.1043 | 27.4136 | 0.1117 | 15.7304 | 0.0629 | 15.7933 | 4.1864 | 0.0585 | 4.2449 | | | | | | 12,502.0525 |

3.5 Structure/Enclosure - 2037**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 | 1.7696 | 9.1247 | 31.2060 | 0.0564 | | 0.1423 | 0.1423 | | 0.1423 | 0.1423 | | | | | | 5,277.7197 |
| Total | 1.7696 | 9.1247 | 31.2060 | 0.0564 | | 0.1423 | 0.1423 | | 0.1423 | 0.1423 | | | | | | 5,277.7197 |

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 |
| Vendor | 0.0903 | 3.7859 | 1.4149 | 0.0151 | 0.6406 | 0.0183 | 0.6589 | 0.1845 | 0.0175 | 0.2020 | | | | | | 1,708.8293 |

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0903 | 3.7859 | 1.4149 | 0.0151 | 0.6406 | 0.0183 | 0.6589 | 0.1845 | 0.0175 | 0.2020 | | | | | | 1,708.8293 |
| Worker | 2.3643 | 1.3184 | 25.9987 | 0.0966 | 15.0898 | 0.0445 | 15.1344 | 4.0019 | 0.0410 | 4.0429 | | | | | | 10,793.2232 |
| Total | 2.4546 | 5.1043 | 27.4136 | 0.1117 | 15.7304 | 0.0629 | 15.7933 | 4.1864 | 0.0585 | 4.2449 | | | | | | 12,502.0525 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating/Finishing - 2037****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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.1156 | 7.0005 | 16.7320 | 0.0275 | | 0.0893 | 0.0893 | | 0.0893 | 0.0893 | | | | | | 2,610.8628 |
| Total | 60.1997 | 7.0005 | 16.7320 | 0.0275 | | 0.0893 | 0.0893 | | 0.0893 | 0.0893 | | | | | | 2,610.8628 |

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 |
| Vendor | 0.0542 | 2.2715 | 0.8489 | 9.0600e-003 | 0.3844 | 0.0110 | 0.3954 | 0.1107 | 0.0105 | 0.1212 | | | | | | 1,025.2976 |
| Worker | 2.5920 | 1.4454 | 28.5023 | 0.1059 | 16.5429 | 0.0488 | 16.5917 | 4.3873 | 0.0449 | 4.4322 | | | | | | 11,832.5706 |
| Total | 2.6462 | 3.7169 | 29.3513 | 0.1150 | 16.9273 | 0.0598 | 16.9871 | 4.4979 | 0.0554 | 4.5534 | | | | | | 12,857.8682 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.8628 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.8628 |

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 |
| Vendor | 0.0542 | 2.2715 | 0.8489 | 9.0600e-003 | 0.3844 | 0.0110 | 0.3954 | 0.1107 | 0.0105 | 0.1212 | | | | | | 1,025.2976 |
| Worker | 2.5920 | 1.4454 | 28.5023 | 0.1059 | 16.5429 | 0.0488 | 16.5917 | 4.3873 | 0.0449 | 4.4322 | | | | | | 11,832.5706 |
| Total | 2.6462 | 3.7169 | 29.3513 | 0.1150 | 16.9273 | 0.0598 | 16.9871 | 4.4979 | 0.0554 | 4.5534 | | | | | | 12,857.8682 |

3.6 Architectural Coating/Finishing - 2038

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.1156 | 7.0005 | 16.7320 | 0.0275 | | 0.0893 | 0.0893 | | 0.0893 | 0.0893 | | | | | | 2,610.8628 |
| Total | 60.1997 | 7.0005 | 16.7320 | 0.0275 | | 0.0893 | 0.0893 | | 0.0893 | 0.0893 | | | | | | 2,610.8628 |

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 |
| Vendor | 0.0542 | 2.2715 | 0.8489 | 9.0600e-003 | 0.3844 | 0.0110 | 0.3954 | 0.1107 | 0.0105 | 0.1212 | | | | | | 1,025.2976 |
| Worker | 2.5920 | 1.4454 | 28.5023 | 0.1059 | 16.5429 | 0.0488 | 16.5917 | 4.3873 | 0.0449 | 4.4322 | | | | | | 11,832.5706 |
| Total | 2.6462 | 3.7169 | 29.3513 | 0.1150 | 16.9273 | 0.0598 | 16.9871 | 4.4979 | 0.0554 | 4.5534 | | | | | | 12,857.8682 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Archit. Coating | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.8628 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.8628 |

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 |
| Vendor | 0.0542 | 2.2715 | 0.8489 | 9.0600e-003 | 0.3844 | 0.0110 | 0.3954 | 0.1107 | 0.0105 | 0.1212 | | | | | | 1,025.2976 |
| Worker | 2.5920 | 1.4454 | 28.5023 | 0.1059 | 16.5429 | 0.0488 | 16.5917 | 4.3873 | 0.0449 | 4.4322 | | | | | | 11,832.5706 |
| Total | 2.6462 | 3.7169 | 29.3513 | 0.1150 | 16.9273 | 0.0598 | 16.9871 | 4.4979 | 0.0554 | 4.5534 | | | | | | 12,857.8682 |

3.7 Paving/Landscape - 2038**Unmitigated Construction On-Site**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.7427 | 4.2147 | 10.2711 | 0.0175 | | 0.1164 | 0.1164 | | 0.1164 | 0.1164 | | | | | | 1,655.6763 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.7427 | 4.2147 | 10.2711 | 0.0175 | | 0.1164 | 0.1164 | | 0.1164 | 0.1164 | | | | | | 1,655.6763 |

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 |
| Vendor | 9.0300e-003 | 0.3786 | 0.1415 | 1.5100e-003 | 0.0641 | 1.8300e-003 | 0.0659 | 0.0185 | 1.7500e-003 | 0.0202 | | | | | | 170.8829 |
| Worker | 0.1751 | 0.0977 | 1.9258 | 7.1500e-003 | 1.1178 | 3.3000e-003 | 1.1211 | 0.2964 | 3.0400e-003 | 0.2995 | | | | | | 799.4980 |
| Total | 0.1842 | 0.4763 | 2.0673 | 8.6600e-003 | 1.1818 | 5.1300e-003 | 1.1870 | 0.3149 | 4.7900e-003 | 0.3197 | | | | | | 970.3810 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.2255 | 2.8606 | 10.7687 | 0.0175 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,655.6763 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.2255 | 2.8606 | 10.7687 | 0.0175 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,655.6763 |

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 |
| Vendor | 9.0300e-003 | 0.3786 | 0.1415 | 1.5100e-003 | 0.0641 | 1.8300e-003 | 0.0659 | 0.0185 | 1.7500e-003 | 0.0202 | | | | | | 170.8829 |
| Worker | 0.1751 | 0.0977 | 1.9258 | 7.1500e-003 | 1.1178 | 3.3000e-003 | 1.1211 | 0.2964 | 3.0400e-003 | 0.2995 | | | | | | 799.4980 |
| Total | 0.1842 | 0.4763 | 2.0673 | 8.6600e-003 | 1.1818 | 5.1300e-003 | 1.1870 | 0.3149 | 4.7900e-003 | 0.3197 | | | | | | 970.3810 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Construction

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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| Industrial Park | 454.00 | 1000sqft | 10.42 | 454,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2045 |
| 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 -
- Construction Phase - Project Specific Construction Schedule
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix
- Off-road Equipment - Site Specific Equipment Mix

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Trips and VMT - Site Specific Trips

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 Equipment Mitigation

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-------------------------|----------------------------|-----------|--------------|
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 65.00 |
| tblConstructionPhase | NumDays | 155.00 | 185.00 |
| tblConstructionPhase | NumDays | 60.00 | 5.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 235.00 |
| tblConstructionPhase | NumDays | 110.00 | 304.00 |
| tblConstructionPhase | NumDays | 110.00 | 21.00 |
| tblGrading | MaterialExported | 0.00 | 772,000.00 |
| tblGrading | MaterialImported | 0.00 | 50,000.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|---------------------|----------------------------|------------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 145.00 |
| tblTripsAndVMT | HaulingTripNumber | 2,255.00 | 0.00 |
| tblTripsAndVMT | HaulingTripNumber | 102,750.00 | 8,572.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 80.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 640.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 1,000.00 |
| tblTripsAndVMT | VendorTripNumber | 655.00 | 100.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 60.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 68.00 | 490.00 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|----------------|------------------|----------|----------|
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,536.00 | 1,350.00 |
| tblTripsAndVMT | WorkerTripNumber | 307.00 | 1,480.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |

2.0 Emissions Summary**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 | | | | | |
| 2040 | 11.4593 | 198.1858 | 155.9551 | 0.9488 | 60.3008 | 1.8376 | 62.1383 | 20.2025 | 1.7883 | 21.9907 | | | | | | 104,833.0028 |
| 2041 | 8.8310 | 175.8725 | 120.0785 | 0.8207 | 49.4336 | 1.5350 | 50.9685 | 18.1549 | 1.4900 | 19.6449 | | | | | | 91,330.1511 |
| 2042 | 66.1367 | 23.8633 | 99.9997 | 0.3012 | 32.6577 | 0.2861 | 32.9439 | 8.6843 | 0.2790 | 8.9633 | | | | | | 32,530.6555 |
| 2043 | 63.2029 | 14.4200 | 55.7834 | 0.1635 | 18.1091 | 0.1991 | 18.3083 | 4.8128 | 0.1953 | 5.0081 | | | | | | 17,708.9338 |
| Maximum | 66.1367 | 198.1858 | 155.9551 | 0.9488 | 60.3008 | 1.8376 | 62.1383 | 20.2025 | 1.7883 | 21.9907 | | | | | | 104,833.0028 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------------|
| 2040 | 5.9319 | 182.5227 | 189.9749 | 0.9488 | 43.4228 | 1.4974 | 44.9202 | 13.3000 | 1.4481 | 14.7481 | | | | | | 104,833.00 28 |
| 2041 | 4.9294 | 164.8290 | 148.0791 | 0.8207 | 37.1363 | 1.3104 | 38.4467 | 11.9460 | 1.2654 | 13.2114 | | | | | | 91,330.151 1 |
| 2042 | 64.3978 | 14.0816 | 103.8657 | 0.3012 | 32.6577 | 0.2192 | 32.8770 | 8.6843 | 0.2121 | 8.8963 | | | | | | 32,530.655 5 |
| 2043 | 61.9303 | 8.0220 | 56.5538 | 0.1635 | 18.1091 | 0.1141 | 18.2232 | 4.8128 | 0.1102 | 4.9231 | | | | | | 17,708.933 8 |
| Maximum | 64.3978 | 182.5227 | 189.9749 | 0.9488 | 43.4228 | 1.4974 | 44.9202 | 13.3000 | 1.4481 | 14.7481 | | | | | | 104,833.00 28 |

| | 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 | 8.31 | 10.40 | -15.44 | 0.00 | 18.18 | 18.58 | 18.19 | 25.28 | 19.10 | 24.87 | 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 | 10/1/2040 | 12/31/2040 | 5 | 65 | |
| 2 | Excavation/Foundations | Grading | 10/16/2040 | 6/30/2041 | 5 | 185 | |
| 3 | Mat Foundation | Site Preparation | 7/1/2041 | 7/7/2041 | 5 | 5 | |
| 4 | Structure/Enclosure | Building Construction | 7/8/2041 | 5/31/2042 | 5 | 235 | |
| 5 | Architectural Coating/Finishing | Architectural Coating | 4/1/2042 | 5/31/2043 | 5 | 304 | |
| 6 | Paving/Landscape | Paving | 5/1/2043 | 5/31/2043 | 5 | 21 | |

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 277.5****Acres of Paving: 47.7****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,811,000; Non-Residential Outdoor: 937,000; Striped Parking Area: 127,200**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 4 | 8.00 | 158 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Bore/Drill Rigs | 6 | 8.00 | 221 | 0.50 |
| Excavation/Foundations | Cranes | 2 | 8.00 | 231 | 0.29 |
| Excavation/Foundations | Excavators | 3 | 8.00 | 158 | 0.38 |
| Excavation/Foundations | Graders | 0 | 8.00 | 187 | 0.41 |
| Excavation/Foundations | Other Construction Equipment | 2 | 8.00 | 172 | 0.42 |
| Excavation/Foundations | Pumps | 4 | 8.00 | 84 | 0.74 |
| Excavation/Foundations | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Rubber Tired Loaders | 2 | 8.00 | 203 | 0.36 |
| Excavation/Foundations | Scrapers | 0 | 8.00 | 367 | 0.48 |
| Excavation/Foundations | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Excavation/Foundations | Welders | 2 | 8.00 | 46 | 0.45 |
| Mat Foundation | Plate Compactors | 6 | 8.00 | 8 | 0.43 |
| Mat Foundation | Pumps | 6 | 8.00 | 84 | 0.74 |
| Mat Foundation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Mat Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Cranes | 0 | 7.00 | 231 | 0.29 |
| Structure/Enclosure | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Structure/Enclosure | Generator Sets | 0 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Other Construction Equipment | 4 | 8.00 | 172 | 0.42 |
| Structure/Enclosure | Pumps | 2 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating/Finishing | Air Compressors | 6 | 8.00 | 78 | 0.48 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|---------------------------------|--------------------|---|------|-----|------|
| Architectural Coating/Finishing | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Paving/Landscape | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving/Landscape | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving/Landscape | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving/Landscape | Skid Steer Loaders | 2 | 8.00 | 65 | 0.37 |
| Paving/Landscape | Trenchers | 1 | 8.00 | 78 | 0.50 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 9 | 100.00 | 80.00 | 0.00 | 14.70 | 32.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Excavation/Foundations | 27 | 490.00 | 640.00 | 8,572.00 | 14.70 | 32.00 | 145.00 | LD_Mix | HHDT | HHDT |
| Mat Foundation | 12 | 100.00 | 1,000.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HHDT | HHDT |
| Structure/Enclosure | 11 | 1,350.00 | 100.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating/Finishing | 8 | 1,480.00 | 60.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving/Landscape | 5 | 100.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2040**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 | | | | | 7.5093 | 0.0000 | 7.5093 | 1.1370 | 0.0000 | 1.1370 | | | | | | 0.0000 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Off-Road | 2.2907 | 7.5007 | 29.7514 | 0.0665 | | 0.2042 | 0.2042 | | 0.2042 | 0.2042 | | | | | | 6,302.1169 |
| Total | 2.2907 | 7.5007 | 29.7514 | 0.0665 | 7.5093 | 0.2042 | 7.7135 | 1.1370 | 0.2042 | 1.3412 | | | | | | 6,302.1169 |

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 |
| Vendor | 0.1931 | 14.7279 | 4.3653 | 0.0548 | 2.2402 | 0.0957 | 2.3359 | 0.6142 | 0.0916 | 0.7058 | | | | | | 6,422.1838 |
| Worker | 0.1445 | 0.0848 | 1.7599 | 6.8600e-003 | 1.1178 | 2.6200e-003 | 1.1204 | 0.2964 | 2.4100e-003 | 0.2989 | | | | | | 778.5510 |
| Total | 0.3376 | 14.8127 | 6.1252 | 0.0617 | 3.3579 | 0.0984 | 3.4563 | 0.9106 | 0.0940 | 1.0046 | | | | | | 7,200.7348 |

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 | | | | | 2.9286 | 0.0000 | 2.9286 | 0.4434 | 0.0000 | 0.4434 | | | | | | 0.0000 |
| Off-Road | 0.6648 | 2.8810 | 35.7707 | 0.0665 | | 0.0886 | 0.0886 | | 0.0886 | 0.0886 | | | | | | 6,302.1169 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Total | 0.6648 | 2.8810 | 35.7707 | 0.0665 | 2.9286 | 0.0886 | 3.0173 | 0.4434 | 0.0886 | 0.5321 | | | | | | 6,302.1169 |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|

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 |
| Vendor | 0.1931 | 14.7279 | 4.3653 | 0.0548 | 2.2402 | 0.0957 | 2.3359 | 0.6142 | 0.0916 | 0.7058 | | | | | | 6,422.1838 |
| Worker | 0.1445 | 0.0848 | 1.7599 | 6.8600e-003 | 1.1178 | 2.6200e-003 | 1.1204 | 0.2964 | 2.4100e-003 | 0.2989 | | | | | | 778.5510 |
| Total | 0.3376 | 14.8127 | 6.1252 | 0.0617 | 3.3579 | 0.0984 | 3.4563 | 0.9106 | 0.0940 | 1.0046 | | | | | | 7,200.7348 |

3.3 Excavation/Foundations - 2040**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 6.2274 | 22.1083 | 67.6953 | 0.2083 | | 0.5065 | 0.5065 | | 0.5065 | 0.5065 | | | | | | 19,677.3302 |
| Total | 6.2274 | 22.1083 | 67.6953 | 0.2083 | 20.1595 | 0.5065 | 20.6660 | 10.1785 | 0.5065 | 10.6851 | | | | | | 19,677.3302 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3508 | 35.5255 | 8.8373 | 0.1404 | 5.8757 | 0.2498 | 6.1255 | 1.6106 | 0.2389 | 1.8495 | | | | | | 16,460.4510 |
| Vendor | 1.5450 | 117.8229 | 34.9227 | 0.4384 | 17.9213 | 0.7659 | 18.6872 | 4.9133 | 0.7327 | 5.6460 | | | | | | 51,377.4701 |
| Worker | 0.7079 | 0.4157 | 8.6233 | 0.0336 | 5.4771 | 0.0129 | 5.4899 | 1.4525 | 0.0118 | 1.4644 | | | | | | 3,814.8998 |
| Total | 2.6037 | 153.7642 | 52.3832 | 0.6124 | 29.2741 | 1.0285 | 30.3025 | 7.9764 | 0.9835 | 8.9599 | | | | | | 71,652.8209 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.3258 | 11.0649 | 95.6959 | 0.2083 | | 0.2819 | 0.2819 | | 0.2819 | 0.2819 | | | | | | 19,677.3302 |
| Total | 2.3258 | 11.0649 | 95.6959 | 0.2083 | 7.8622 | 0.2819 | 8.1441 | 3.9696 | 0.2819 | 4.2516 | | | | | | 19,677.3302 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3508 | 35.5255 | 8.8373 | 0.1404 | 5.8757 | 0.2498 | 6.1255 | 1.6106 | 0.2389 | 1.8495 | | | | | | 16,460.4510 |
| Vendor | 1.5450 | 117.8229 | 34.9227 | 0.4384 | 17.9213 | 0.7659 | 18.6872 | 4.9133 | 0.7327 | 5.6460 | | | | | | 51,377.4701 |
| Worker | 0.7079 | 0.4157 | 8.6233 | 0.0336 | 5.4771 | 0.0129 | 5.4899 | 1.4525 | 0.0118 | 1.4644 | | | | | | 3,814.8998 |
| Total | 2.6037 | 153.7642 | 52.3832 | 0.6124 | 29.2741 | 1.0285 | 30.3025 | 7.9764 | 0.9835 | 8.9599 | | | | | | 71,652.8209 |

3.3 Excavation/Foundations - 2041**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 | | | | | 20.1595 | 0.0000 | 20.1595 | 10.1785 | 0.0000 | 10.1785 | | | | | | 0.0000 |
| Off-Road | 6.2274 | 22.1083 | 67.6953 | 0.2083 | | 0.5065 | 0.5065 | | 0.5065 | 0.5065 | | | | | | 19,677.3302 |
| Total | 6.2274 | 22.1083 | 67.6953 | 0.2083 | 20.1595 | 0.5065 | 20.6660 | 10.1785 | 0.5065 | 10.6851 | | | | | | 19,677.3302 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.3508 | 35.5255 | 8.8373 | 0.1404 | 5.8757 | 0.2498 | 6.1255 | 1.6106 | 0.2389 | 1.8495 | | | | | | 16,460.4510 |
| Vendor | 1.5450 | 117.8229 | 34.9227 | 0.4384 | 17.9213 | 0.7659 | 18.6872 | 4.9133 | 0.7327 | 5.6460 | | | | | | 51,377.4701 |
| Worker | 0.7079 | 0.4157 | 8.6233 | 0.0336 | 5.4771 | 0.0129 | 5.4899 | 1.4525 | 0.0118 | 1.4644 | | | | | | 3,814.8998 |
| Total | 2.6037 | 153.7642 | 52.3832 | 0.6124 | 29.2741 | 1.0285 | 30.3025 | 7.9764 | 0.9835 | 8.9599 | | | | | | 71,652.8209 |

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 | | | | | 7.8622 | 0.0000 | 7.8622 | 3.9696 | 0.0000 | 3.9696 | | | | | | 0.0000 |
| Off-Road | 2.3258 | 11.0649 | 95.6959 | 0.2083 | | 0.2819 | 0.2819 | | 0.2819 | 0.2819 | | | | | | 19,677.3302 |
| Total | 2.3258 | 11.0649 | 95.6959 | 0.2083 | 7.8622 | 0.2819 | 8.1441 | 3.9696 | 0.2819 | 4.2516 | | | | | | 19,677.3302 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.3508 | 35.5255 | 8.8373 | 0.1404 | 5.8757 | 0.2498 | 6.1255 | 1.6106 | 0.2389 | 1.8495 | | | | | | 16,460.4510 |
| Vendor | 1.5450 | 117.8229 | 34.9227 | 0.4384 | 17.9213 | 0.7659 | 18.6872 | 4.9133 | 0.7327 | 5.6460 | | | | | | 51,377.4701 |
| Worker | 0.7079 | 0.4157 | 8.6233 | 0.0336 | 5.4771 | 0.0129 | 5.4899 | 1.4525 | 0.0118 | 1.4644 | | | | | | 3,814.8998 |
| Total | 2.6037 | 153.7642 | 52.3832 | 0.6124 | 29.2741 | 1.0285 | 30.3025 | 7.9764 | 0.9835 | 8.9599 | | | | | | 71,652.8209 |

3.4 Mat Foundation - 2041**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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.3260 | 10.7826 | 23.3514 | 0.0424 | | 0.1375 | 0.1375 | | 0.1375 | 0.1375 | | | | | | 3,947.9230 |
| Total | 1.3260 | 10.7826 | 23.3514 | 0.0424 | 0.0000 | 0.1375 | 0.1375 | 0.0000 | 0.1375 | 0.1375 | | | | | | 3,947.9230 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2688 | 54.6868 | 24.3226 | 0.1643 | 6.0547 | 0.2652 | 6.3199 | 1.6614 | 0.2538 | 1.9152 | | | | | | 19,199.7965 |
| Worker | 0.1445 | 0.0848 | 1.7599 | 6.8600e-003 | 1.1178 | 2.6200e-003 | 1.1204 | 0.2964 | 2.4100e-003 | 0.2989 | | | | | | 778.5510 |
| Total | 1.4132 | 54.7717 | 26.0825 | 0.1712 | 7.1724 | 0.2679 | 7.4403 | 1.9579 | 0.2562 | 2.2140 | | | | | | 19,978.3475 |

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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.6353 | 3.2181 | 25.6010 | 0.0424 | | 0.1112 | 0.1112 | | 0.1112 | 0.1112 | | | | | | 3,947.9230 |
| Total | 0.6353 | 3.2181 | 25.6010 | 0.0424 | 0.0000 | 0.1112 | 0.1112 | 0.0000 | 0.1112 | 0.1112 | | | | | | 3,947.9230 |

Mitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 1.2688 | 54.6868 | 24.3226 | 0.1643 | 6.0547 | 0.2652 | 6.3199 | 1.6614 | 0.2538 | 1.9152 | | | | | | 19,199.7965 |
| Worker | 0.1445 | 0.0848 | 1.7599 | 6.8600e-003 | 1.1178 | 2.6200e-003 | 1.1204 | 0.2964 | 2.4100e-003 | 0.2989 | | | | | | 778.5510 |
| Total | 1.4132 | 54.7717 | 26.0825 | 0.1712 | 7.1724 | 0.2679 | 7.4403 | 1.9579 | 0.2562 | 2.2140 | | | | | | 19,978.3475 |

3.5 Structure/Enclosure - 2041**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 | 1.7284 | 8.7041 | 31.1965 | 0.0564 | | 0.1135 | 0.1135 | | 0.1135 | 0.1135 | | | | | | 5,277.6498 |
| Total | 1.7284 | 8.7041 | 31.1965 | 0.0564 | | 0.1135 | 0.1135 | | 0.1135 | 0.1135 | | | | | | 5,277.6498 |

Unmitigated Construction Off-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0896 | 3.7537 | 1.4243 | 0.0144 | 0.6406 | 0.0181 | 0.6587 | 0.1845 | 0.0173 | 0.2018 | | | | | | 1,630.7807 |
| Worker | 1.9503 | 1.1453 | 23.7580 | 0.0927 | 15.0898 | 0.0354 | 15.1252 | 4.0019 | 0.0326 | 4.0345 | | | | | | 10,510.4383 |
| Total | 2.0399 | 4.8990 | 25.1823 | 0.1070 | 15.7305 | 0.0535 | 15.7839 | 4.1864 | 0.0499 | 4.2362 | | | | | | 12,141.2190 |

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 | 0.8065 | 4.4814 | 34.8006 | 0.0564 | | 0.0794 | 0.0794 | | 0.0794 | 0.0794 | | | | | | 5,277.6498 |
| Total | 0.8065 | 4.4814 | 34.8006 | 0.0564 | | 0.0794 | 0.0794 | | 0.0794 | 0.0794 | | | | | | 5,277.6498 |

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 | | | | | |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 0.0896 | 3.7537 | 1.4243 | 0.0144 | 0.6406 | 0.0181 | 0.6587 | 0.1845 | 0.0173 | 0.2018 | | | | | | 1,630.7807 |
| Worker | 1.9503 | 1.1453 | 23.7580 | 0.0927 | 15.0898 | 0.0354 | 15.1252 | 4.0019 | 0.0326 | 4.0345 | | | | | | 10,510.4383 |
| Total | 2.0399 | 4.8990 | 25.1823 | 0.1070 | 15.7305 | 0.0535 | 15.7839 | 4.1864 | 0.0499 | 4.2362 | | | | | | 12,141.2190 |

3.5 Structure/Enclosure - 2042**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 | 1.7284 | 8.7041 | 31.1965 | 0.0564 | | 0.1135 | 0.1135 | | 0.1135 | 0.1135 | | | | | | 5,277.6498 |
| Total | 1.7284 | 8.7041 | 31.1965 | 0.0564 | | 0.1135 | 0.1135 | | 0.1135 | 0.1135 | | | | | | 5,277.6498 |

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 |
| Vendor | 0.0896 | 3.7537 | 1.4243 | 0.0144 | 0.6406 | 0.0181 | 0.6587 | 0.1845 | 0.0173 | 0.2018 | | | | | | 1,630.7807 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Worker | 1.9503 | 1.1453 | 23.7580 | 0.0927 | 15.0898 | 0.0354 | 15.1252 | 4.0019 | 0.0326 | 4.0345 | | | | | | 10,510.4383 |
| Total | 2.0399 | 4.8990 | 25.1823 | 0.1070 | 15.7305 | 0.0535 | 15.7839 | 4.1864 | 0.0499 | 4.2362 | | | | | | 12,141.2190 |

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 | 0.8065 | 4.4814 | 34.8006 | 0.0564 | | 0.0794 | 0.0794 | | 0.0794 | 0.0794 | | | | | | 5,277.6498 |
| Total | 0.8065 | 4.4814 | 34.8006 | 0.0564 | | 0.0794 | 0.0794 | | 0.0794 | 0.0794 | | | | | | 5,277.6498 |

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 |
| Vendor | 0.0896 | 3.7537 | 1.4243 | 0.0144 | 0.6406 | 0.0181 | 0.6587 | 0.1845 | 0.0173 | 0.2018 | | | | | | 1,630.7807 |
| Worker | 1.9503 | 1.1453 | 23.7580 | 0.0927 | 15.0898 | 0.0354 | 15.1252 | 4.0019 | 0.0326 | 4.0345 | | | | | | 10,510.4383 |
| Total | 2.0399 | 4.8990 | 25.1823 | 0.1070 | 15.7305 | 0.0535 | 15.7839 | 4.1864 | 0.0499 | 4.2362 | | | | | | 12,141.2190 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating/Finishing - 2042****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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.0925 | 6.7523 | 16.7205 | 0.0275 | | 0.0695 | 0.0695 | | 0.0695 | 0.0695 | | | | | | 2,610.7637 |
| Total | 60.1765 | 6.7523 | 16.7205 | 0.0275 | | 0.0695 | 0.0695 | | 0.0695 | 0.0695 | | | | | | 2,610.7637 |

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 |
| Vendor | 0.0538 | 2.2522 | 0.8546 | 8.6400e-003 | 0.3844 | 0.0109 | 0.3952 | 0.1107 | 0.0104 | 0.1211 | | | | | | 978.4684 |
| Worker | 2.1381 | 1.2556 | 26.0458 | 0.1016 | 16.5429 | 0.0388 | 16.5817 | 4.3873 | 0.0357 | 4.4230 | | | | | | 11,522.5546 |
| Total | 2.1919 | 3.5078 | 26.9004 | 0.1102 | 16.9273 | 0.0497 | 16.9770 | 4.4979 | 0.0461 | 4.5440 | | | | | | 12,501.0230 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.7637 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.7637 |

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 |
| Vendor | 0.0538 | 2.2522 | 0.8546 | 8.6400e-003 | 0.3844 | 0.0109 | 0.3952 | 0.1107 | 0.0104 | 0.1211 | | | | | | 978.4684 |
| Worker | 2.1381 | 1.2556 | 26.0458 | 0.1016 | 16.5429 | 0.0388 | 16.5817 | 4.3873 | 0.0357 | 4.4230 | | | | | | 11,522.5546 |
| Total | 2.1919 | 3.5078 | 26.9004 | 0.1102 | 16.9273 | 0.0497 | 16.9770 | 4.4979 | 0.0461 | 4.5440 | | | | | | 12,501.0230 |

3.6 Architectural Coating/Finishing - 2043

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.0925 | 6.7523 | 16.7205 | 0.0275 | | 0.0695 | 0.0695 | | 0.0695 | 0.0695 | | | | | | 2,610.7637 |
| Total | 60.1765 | 6.7523 | 16.7205 | 0.0275 | | 0.0695 | 0.0695 | | 0.0695 | 0.0695 | | | | | | 2,610.7637 |

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 |
| Vendor | 0.0538 | 2.2522 | 0.8546 | 8.6400e-003 | 0.3844 | 0.0109 | 0.3952 | 0.1107 | 0.0104 | 0.1211 | | | | | | 978.4684 |
| Worker | 2.1381 | 1.2556 | 26.0458 | 0.1016 | 16.5429 | 0.0388 | 16.5817 | 4.3873 | 0.0357 | 4.4230 | | | | | | 11,522.5546 |
| Total | 2.1919 | 3.5078 | 26.9004 | 0.1102 | 16.9273 | 0.0497 | 16.9770 | 4.4979 | 0.0461 | 4.5440 | | | | | | 12,501.0230 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Archit. Coating | 59.0841 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.2754 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.7637 |
| Total | 59.3594 | 1.1934 | 16.9824 | 0.0275 | | 0.0367 | 0.0367 | | 0.0367 | 0.0367 | | | | | | 2,610.7637 |

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 |
| Vendor | 0.0538 | 2.2522 | 0.8546 | 8.6400e-003 | 0.3844 | 0.0109 | 0.3952 | 0.1107 | 0.0104 | 0.1211 | | | | | | 978.4684 |
| Worker | 2.1381 | 1.2556 | 26.0458 | 0.1016 | 16.5429 | 0.0388 | 16.5817 | 4.3873 | 0.0357 | 4.4230 | | | | | | 11,522.5546 |
| Total | 2.1919 | 3.5078 | 26.9004 | 0.1102 | 16.9273 | 0.0497 | 16.9770 | 4.4979 | 0.0461 | 4.5440 | | | | | | 12,501.0230 |

3.7 Paving/Landscape - 2043**Unmitigated Construction On-Site**

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.6810 | 3.6997 | 10.2602 | 0.0175 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | | | | | | 1,655.5180 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.6810 | 3.6997 | 10.2602 | 0.0175 | | 0.0756 | 0.0756 | | 0.0756 | 0.0756 | | | | | | 1,655.5180 |

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 |
| Vendor | 8.9600e-003 | 0.3754 | 0.1424 | 1.4400e-003 | 0.0641 | 1.8100e-003 | 0.0659 | 0.0185 | 1.7300e-003 | 0.0202 | | | | | | 163.0781 |
| Worker | 0.1445 | 0.0848 | 1.7599 | 6.8600e-003 | 1.1178 | 2.6200e-003 | 1.1204 | 0.2964 | 2.4100e-003 | 0.2989 | | | | | | 778.5510 |
| Total | 0.1534 | 0.4602 | 1.9023 | 8.3000e-003 | 1.1818 | 4.4300e-003 | 1.1863 | 0.3149 | 4.1400e-003 | 0.3190 | | | | | | 941.6291 |

Mitigated Construction On-Site

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.2255 | 2.8606 | 10.7687 | 0.0175 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,655.5180 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.2255 | 2.8606 | 10.7687 | 0.0175 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,655.5180 |

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 |
| Vendor | 8.9600e-003 | 0.3754 | 0.1424 | 1.4400e-003 | 0.0641 | 1.8100e-003 | 0.0659 | 0.0185 | 1.7300e-003 | 0.0202 | | | | | | 163.0781 |
| Worker | 0.1445 | 0.0848 | 1.7599 | 6.8600e-003 | 1.1178 | 2.6200e-003 | 1.1204 | 0.2964 | 2.4100e-003 | 0.2989 | | | | | | 778.5510 |
| Total | 0.1534 | 0.4602 | 1.9023 | 8.3000e-003 | 1.1818 | 4.4300e-003 | 1.1863 | 0.3149 | 4.1400e-003 | 0.3190 | | | | | | 941.6291 |

TVC Construction - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Off-Road | 0.2255 | 2.8606 | 10.7687 | 0.0175 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,655.9371 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 0.2255 | 2.8606 | 10.7687 | 0.0175 | | 0.0233 | 0.0233 | | 0.0233 | 0.0233 | | | | | | 1,655.9371 |

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 |
| Vendor | 9.1200e-003 | 0.3818 | 0.1410 | 1.5500e-003 | 0.0641 | 1.8500e-003 | 0.0659 | 0.0185 | 1.7700e-003 | 0.0202 | | | | | | 175.5156 |
| Worker | 0.1927 | 0.1069 | 2.0322 | 7.3500e-003 | 1.1178 | 3.7200e-003 | 1.1215 | 0.2964 | 3.4200e-003 | 0.2999 | | | | | | 813.3369 |
| Total | 0.2019 | 0.4887 | 2.1731 | 8.9000e-003 | 1.1818 | 5.5700e-003 | 1.1874 | 0.3149 | 5.1900e-003 | 0.3201 | | | | | | 988.8524 |

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Existing Conditions (Buildout Year 2030)**

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 Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2026 LADWP Consistency with SB 100

Land Use - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - See Operational Assumptions

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|---------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.0 Emissions Summary****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 | 16.8927 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 8.6051 | 8.2246 | 79.8674 | 0.1697 | 21.4776 | 0.1133 | 21.5909 | 5.7223 | 0.1053 | 5.8276 | | | | | | 17,590.8242 |
| Total | 25.6672 | 9.7666 | 81.3889 | 0.1789 | 21.4776 | 0.2312 | 21.7088 | 5.7223 | 0.2232 | 5.9455 | | | | | | 19,450.2785 |

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 | 16.8927 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 8.6051 | 8.2246 | 79.8674 | 0.1697 | 21.4776 | 0.1133 | 21.5909 | 5.7223 | 0.1053 | 5.8276 | | | | | | 17,590.8242 |

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|-------|---------|--------|---------|--------|---------|--------|---------|--------|--------|--------|--|--|--|--|--|-------------|
| Total | 25.6672 | 9.7666 | 81.3889 | 0.1789 | 21.4776 | 0.2312 | 21.7088 | 5.7223 | 0.2232 | 5.9455 | | | | | | 19,450.2785 |
|-------|---------|--------|---------|--------|---------|--------|---------|--------|--------|--------|--|--|--|--|--|-------------|

| | 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 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 8.6051 | 8.2246 | 79.8674 | 0.1697 | 21.4776 | 0.1133 | 21.5909 | 5.7223 | 0.1053 | 5.8276 | | | | | | 17,590.824 |
| Unmitigated | 8.6051 | 8.2246 | 79.8674 | 0.1697 | 21.4776 | 0.1133 | 21.5909 | 5.7223 | 0.1053 | 5.8276 | | | | | | 17,590.824 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-------------------------|----------|----------|--------|-----------|-----------|
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use | 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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| Industrial Park | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| Parking Lot | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| User Defined Commercial | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| User Defined Industrial | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | | | | | | | | | | | | | | | | |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| | 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|--|--|--|--|------------|
| NaturalGas Mitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| NaturalGas Unmitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 Office Building | 10998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3256.21 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1453.38 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 |
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
|-------------------------|---------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|--------|--|--|--|--|-------------------|
| General Office Building | 10.998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3.25621 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1.45338 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 16.8927 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Unmitigated | 16.8927 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

6.2 Area by SubCategory**Unmitigated**

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|-----------|-----------|-----|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0209 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

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 | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0209 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2280 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

7.0 Water Detail

TVC Existing Conditions (Buildout Year 2030) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.1 Mitigation Measures Water****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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Existing Conditions (Buildout Year 2035) - 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**TVC Existing Conditions (Buildout Year 2035)****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 Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2035 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2026 LADWP Consistency with SB 100

Land Use - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - See Operational Assumptions

TVC Existing Conditions (Buildout Year 2035) - 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

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|---------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |

TVC Existing Conditions (Buildout Year 2035) - 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**2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****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 | 16.8927 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 8.0048 | 7.3751 | 75.0805 | 0.1575 | 21.4811 | 0.0911 | 21.5722 | 5.7239 | 0.0848 | 5.8087 | | | | | | 16,340.1311 |
| Total | 25.0669 | 8.9171 | 76.6020 | 0.1668 | 21.4811 | 0.2089 | 21.6901 | 5.7239 | 0.2026 | 5.9265 | | | | | | 18,199.5854 |

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 | 16.8927 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

TVC Existing Conditions (Buildout Year 2035) - 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

| | | | | | | | | | | | | | | | | |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Mobile | 8.0048 | 7.3751 | 75.0805 | 0.1575 | 21.4811 | 0.0911 | 21.5722 | 5.7239 | 0.0848 | 5.8087 | | | | | | 16,340.131 |
| | | | | | | | | | | | | | | | | 1 |
| Total | 25.0669 | 8.9171 | 76.6020 | 0.1668 | 21.4811 | 0.2089 | 21.6901 | 5.7239 | 0.2026 | 5.9265 | | | | | | 18,199.5854 |

| | 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 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 8.0048 | 7.3751 | 75.0805 | 0.1575 | 21.4811 | 0.0911 | 21.5722 | 5.7239 | 0.0848 | 5.8087 | | | | | | 16,340.131 |
| Unmitigated | 8.0048 | 7.3751 | 75.0805 | 0.1575 | 21.4811 | 0.0911 | 21.5722 | 5.7239 | 0.0848 | 5.8087 | | | | | | 16,340.131 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------|-------------------------|----------|--------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

TVC Existing Conditions (Buildout Year 2035) - 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

| | | | | | |
|-------------------------|-----------------|-----------------|---------------|------------------|------------------|
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use | 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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| Industrial Park | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| Parking Lot | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| User Defined Commercial | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| User Defined Industrial | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | 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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

TVC Existing Conditions (Buildout Year 2035) - 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

| Category | lb/day | | | | | | | | | | lb/day | | | | | |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--------|--|--|--|--|------------|
| NaturalGas Mitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| NaturalGas Unmitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 Office Building | 10998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3256.21 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1453.38 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 |
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

TVC Existing Conditions (Buildout Year 2035) - 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

| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
|-------------------------|---------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|--------|--|--|--|--|-------------------|
| General Office Building | 10.998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3.25621 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1.45338 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 16.8927 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Unmitigated | 16.8927 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

6.2 Area by SubCategory**Unmitigated**

TVC Existing Conditions (Buildout Year 2035) - 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 |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|-----------|-----------|-----|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0208 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

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 | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0208 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2279 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

7.0 Water Detail

TVC Existing Conditions (Buildout Year 2035) - 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**7.1 Mitigation Measures Water****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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Existing Conditions (Buildout Year 2040) - 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**TVC Existing Conditions (Buildout Year 2040)**

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 Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2040 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2026 LADWP Consistency with SB 100

Land Use - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - See Operational Assumptions

TVC Existing Conditions (Buildout Year 2040) - 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

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|---------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |

TVC Existing Conditions (Buildout Year 2040) - 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**2.0 Emissions Summary****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 | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 7.7431 | 7.0634 | 73.0398 | 0.1516 | 21.4849 | 0.0783 | 21.5633 | 5.7256 | 0.0730 | 5.7986 | | | | | | 15,734.8915 |
| Total | 24.8052 | 8.6054 | 74.5611 | 0.1609 | 21.4849 | 0.1962 | 21.6811 | 5.7256 | 0.1909 | 5.9165 | | | | | | 17,594.3458 |

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 | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 7.7431 | 7.0634 | 73.0398 | 0.1516 | 21.4849 | 0.0783 | 21.5633 | 5.7256 | 0.0730 | 5.7986 | | | | | | 15,734.8915 |

TVC Existing Conditions (Buildout Year 2040) - 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

| | | | | | | | | | | | | | | | | |
|-------|---------|--------|---------|--------|---------|--------|---------|--------|--------|--------|--|--|--|--|--|-------------|
| Total | 24.8052 | 8.6054 | 74.5611 | 0.1609 | 21.4849 | 0.1962 | 21.6811 | 5.7256 | 0.1909 | 5.9165 | | | | | | 17,594.3458 |
|-------|---------|--------|---------|--------|---------|--------|---------|--------|--------|--------|--|--|--|--|--|-------------|

| | 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 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 7.7431 | 7.0634 | 73.0398 | 0.1516 | 21.4849 | 0.0783 | 21.5633 | 5.7256 | 0.0730 | 5.7986 | | | | | | 15,734.8915 |
| Unmitigated | 7.7431 | 7.0634 | 73.0398 | 0.1516 | 21.4849 | 0.0783 | 21.5633 | 5.7256 | 0.0730 | 5.7986 | | | | | | 15,734.8915 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

TVC Existing Conditions (Buildout Year 2040) - 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**4.3 Trip Type Information**

| | Miles | | | Trip % | | | Trip Purpose % | | |
|-------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| Land Use | 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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| Industrial Park | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| Parking Lot | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| User Defined Commercial | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| User Defined Industrial | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | 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 | | | | | |

TVC Existing Conditions (Buildout Year 2040) - 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

| | | | | | | | | | | | | | | | | |
|------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--|--|--|--|--|------------|
| NaturalGas Mitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| NaturalGas Unmitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 Office Building | 10998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3256.21 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1453.38 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 | | | | | |

TVC Existing Conditions (Buildout Year 2040) - 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

| | | | | | | | | | | | | | | | | | |
|-------------------------|---------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 10.998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3.25621 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1.45338 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Unmitigated | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

6.2 Area by SubCategory**Unmitigated**

TVC Existing Conditions (Buildout Year 2040) - 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 |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|-----------|-----------|-----|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0208 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

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 | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0208 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

7.0 Water Detail**7.1 Mitigation Measures Water**

TVC Existing Conditions (Buildout Year 2040) - 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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Existing Conditions (Buildout Year 2045) - 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**TVC Existing Conditions (Buildout Year 2045)**

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 Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2045 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2026 LADWP Consistency with SB 100

Land Use - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - See Operational Assumptions

TVC Existing Conditions (Buildout Year 2045) - 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

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|---------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |

TVC Existing Conditions (Buildout Year 2045) - 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**2.0 Emissions Summary****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 | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 7.7140 | 7.1022 | 72.4597 | 0.1492 | 21.4885 | 0.0730 | 21.5615 | 5.7270 | 0.0682 | 5.7952 | | | | | | 15,492.7440 |
| Total | 24.7761 | 8.6442 | 73.9810 | 0.1585 | 21.4885 | 0.1909 | 21.6794 | 5.7270 | 0.1860 | 5.9130 | | | | | | 17,352.1982 |

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 | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Energy | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |
| Mobile | 7.7140 | 7.1022 | 72.4597 | 0.1492 | 21.4885 | 0.0730 | 21.5615 | 5.7270 | 0.0682 | 5.7952 | | | | | | 15,492.7440 |

TVC Existing Conditions (Buildout Year 2045) - 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

| | | | | | | | | | | | | | | | | |
|-------|---------|--------|---------|--------|---------|--------|---------|--------|--------|--------|--|--|--|--|--|-------------|
| Total | 24.7761 | 8.6442 | 73.9810 | 0.1585 | 21.4885 | 0.1909 | 21.6794 | 5.7270 | 0.1860 | 5.9130 | | | | | | 17,352.1982 |
|-------|---------|--------|---------|--------|---------|--------|---------|--------|--------|--------|--|--|--|--|--|-------------|

| | 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 |

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 7.7140 | 7.1022 | 72.4597 | 0.1492 | 21.4885 | 0.0730 | 21.5615 | 5.7270 | 0.0682 | 5.7952 | | | | | | 15,492.744 |
| Unmitigated | 7.7140 | 7.1022 | 72.4597 | 0.1492 | 21.4885 | 0.0730 | 21.5615 | 5.7270 | 0.0682 | 5.7952 | | | | | | 15,492.744 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

TVC Existing Conditions (Buildout Year 2045) - 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**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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| Industrial Park | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| Parking Lot | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| User Defined Commercial | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| User Defined Industrial | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | 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 | | | | | |
| Natural Gas Mitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

TVC Existing Conditions (Buildout Year 2045) - 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

| | | | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--|--|--|--|--|--|------------|
| NaturalGas Unmitigated | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | | 1,858.9314 |
|---------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--|--|--|--|--|--|------------|

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 Office Building | 10998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |
| Industrial Park | 3256.21 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | | 0.0243 | 0.0243 | | 0.0243 | 0.0243 | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 1453.38 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | | 0.0108 | 0.0108 | | 0.0108 | 0.0108 | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | | 0.1170 | 0.1170 | | 0.1170 | 0.1170 | | | | | | 1,858.9314 |

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 Office Building | 10.998 | 0.1186 | 1.0782 | 0.9057 | 6.4700e-003 | | 0.0820 | 0.0820 | | 0.0820 | 0.0820 | | | | | | 1,301.5692 |

TVC Existing Conditions (Buildout Year 2045) - 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

| | | | | | | | | | | | | | | | | | |
|-------------------------|---------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|--|--|--|--|--|--|--|-------------------|
| Industrial Park | 3.25621 | 0.0351 | 0.3192 | 0.2682 | 1.9200e-003 | 0.0243 | 0.0243 | 0.0243 | 0.0243 | | | | | | | | 385.3603 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | | | 0.0000 |
| User Defined Industrial | 1.45338 | 0.0157 | 0.1425 | 0.1197 | 8.5000e-004 | 0.0108 | 0.0108 | 0.0108 | 0.0108 | | | | | | | | 172.0019 |
| Total | | 0.1694 | 1.5400 | 1.2936 | 9.2400e-003 | 0.1170 | 0.1170 | 0.1170 | 0.1170 | | | | | | | | 1,858.9314 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Unmitigated | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

TVC Existing Conditions (Buildout Year 2045) - 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

| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
|-----------------------|----------------|--------------------|---------------|--------------------|--|--------------------|--------------------|--|--------------------|--------------------|--------|--|--|--|--|---------------|
| Architectural Coating | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0208 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

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 | 1.9345 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 14.9374 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0208 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |
| Total | 16.8927 | 2.0500e-003 | 0.2277 | 2.0000e-005 | | 8.1000e-004 | 8.1000e-004 | | 8.1000e-004 | 8.1000e-004 | | | | | | 0.5229 |

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail**

TVC Existing Conditions (Buildout Year 2045) - 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

8.1 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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| | | | | | | |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| | | | | | |
|----------------|--------|----------------|-----------------|---------------|-----------|
| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| | |
|----------------|--------|
| Equipment Type | Number |
|----------------|--------|

11.0 Vegetation

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Operations - Total Permitted Land Uses
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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|---|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 585 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculation table and VMT for the District Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Operations - Total Permitted Land Uses****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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2030 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculation and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 104,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 129.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.02 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|--------|---------------|
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,290.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,098.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 11,346.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 24,050,000.00 |

2.0 Emissions Summary**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 | 42.8438 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------|
| Mobile | 24.7905 | 23.5664 | 230.3120 | 0.4827 | 61.0621 | 0.3261 | 61.3882 | 16.2689 | 0.3031 | 16.5719 | | | | | | 52,825.6315 |
| Total | 68.2071 | 28.7806 | 235.4153 | 0.5140 | 61.0621 | 0.7245 | 61.7866 | 16.2689 | 0.7014 | 16.9703 | | | | | | 59,113.6314 |

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 | 42.8438 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| Mobile | 24.7905 | 23.5664 | 230.3120 | 0.4827 | 61.0621 | 0.3261 | 61.3882 | 16.2689 | 0.3031 | 16.5719 | | | | | | 52,825.6315 |
| Total | 68.2071 | 28.7806 | 235.4153 | 0.5140 | 61.0621 | 0.7245 | 61.7866 | 16.2689 | 0.7014 | 16.9703 | | | | | | 59,113.6314 |

| | 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 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 24.7905 | 23.5664 | 230.3120 | 0.4827 | 61.0621 | 0.3261 | 61.3882 | 16.2689 | 0.3031 | 16.5719 | | | | | | 52,825.631 |
| Unmitigated | 24.7905 | 23.5664 | 230.3120 | 0.4827 | 61.0621 | 0.3261 | 61.3882 | 16.2689 | 0.3031 | 16.5719 | | | | | | 52,825.631 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.02 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| General Office Building | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| High Turnover (Sit Down Restaurant) | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| Industrial Park | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| Strip Mall | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| Unenclosed Parking with Elevator | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| User Defined Commercial | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |
| User Defined Industrial | 0.529534 | 0.067658 | 0.193471 | 0.126518 | 0.024260 | 0.006985 | 0.011675 | 0.007885 | 0.000939 | 0.000569 | 0.026493 | 0.000724 | 0.003288 |

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 | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| NaturalGas Unmitigated | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 39545.2 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3155.21 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9886.3 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 66.9863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 464.438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 39.5452 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3.15521 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9.8863 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 0.0669863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 0.464438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 42.8438 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |
| Unmitigated | 42.8438 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |

6.2 Area by SubCategory

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0667 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |
| Total | 42.8438 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |

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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0667 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |
| Total | 42.8438 | 6.5600e-003 | 0.7289 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6715 |

7.0 Water Detail

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| | | | | | | |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| | | | | | |
|----------------|--------|----------------|-----------------|---------------|-----------|
| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| | |
|----------------|--------|
| Equipment Type | Number |
|----------------|--------|

11.0 Vegetation

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Operations - Total Permitted Land Uses****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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2035 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculation and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 104,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 129.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.02 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|--------|---------------|
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,290.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,098.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 11,346.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 24,050,000.00 |

2.0 Emissions Summary**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 | 42.8437 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------|
| Mobile | 23.0556 | 21.1512 | 217.1988 | 0.4481 | 61.0722 | 0.2629 | 61.3351 | 16.2735 | 0.2449 | 16.5183 | | | | | | 50,119.3946 |
| Total | 66.4721 | 26.3654 | 222.3016 | 0.4794 | 61.0722 | 0.6613 | 61.7335 | 16.2735 | 0.6432 | 16.9167 | | | | | | 56,407.3944 |

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 | 42.8437 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| Mobile | 23.0556 | 21.1512 | 217.1988 | 0.4481 | 61.0722 | 0.2629 | 61.3351 | 16.2735 | 0.2449 | 16.5183 | | | | | | 50,119.3946 |
| Total | 66.4721 | 26.3654 | 222.3016 | 0.4794 | 61.0722 | 0.6613 | 61.7335 | 16.2735 | 0.6432 | 16.9167 | | | | | | 56,407.3944 |

| | 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 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 23.0556 | 21.1512 | 217.1988 | 0.4481 | 61.0722 | 0.2629 | 61.3351 | 16.2735 | 0.2449 | 16.5183 | | | | | | 50,119.394 |
| Unmitigated | 23.0556 | 21.1512 | 217.1988 | 0.4481 | 61.0722 | 0.2629 | 61.3351 | 16.2735 | 0.2449 | 16.5183 | | | | | | 50,119.394 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.02 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| General Office Building | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| High Turnover (Sit Down Restaurant) | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| Industrial Park | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| Strip Mall | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| Unenclosed Parking with Elevator | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| User Defined Commercial | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |
| User Defined Industrial | 0.521751 | 0.069666 | 0.195621 | 0.127727 | 0.025243 | 0.007470 | 0.011807 | 0.007489 | 0.000930 | 0.000550 | 0.027635 | 0.000756 | 0.003356 |

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 | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| NaturalGas Unmitigated | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 39545.2 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3155.21 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9886.3 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 66.9863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 464.438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 39.5452 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3.15521 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9.8863 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 0.0669863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 0.464438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 42.8437 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Unmitigated | 42.8437 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

6.2 Area by SubCategory

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0666 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Total | 42.8437 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0666 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Total | 42.8437 | 6.5400e-003 | 0.7284 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

7.0 Water Detail

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**TVC Operations - Total Permitted Land Uses****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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2040 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculation and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 104,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 129.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.02 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|--------|---------------|
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,290.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,098.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 11,346.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 24,050,000.00 |

2.0 Emissions Summary**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 | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|-------------------------|
| Mobile | 22.2989 | 20.2707 | 211.6374 | 0.4313 | 61.0830 | 0.2267 | 61.3097 | 16.2781 | 0.2114 | 16.4895 | | | | | | 48,832.347 7 |
| Total | 65.7154 | 25.4849 | 216.7397 | 0.4626 | 61.0830 | 0.6251 | 61.7081 | 16.2781 | 0.6097 | 16.8879 | | | | | | 55,120.347 5 |

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 | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| Mobile | 22.2989 | 20.2707 | 211.6374 | 0.4313 | 61.0830 | 0.2267 | 61.3097 | 16.2781 | 0.2114 | 16.4895 | | | | | | 48,832.347 7 |
| Total | 65.7154 | 25.4849 | 216.7397 | 0.4626 | 61.0830 | 0.6251 | 61.7081 | 16.2781 | 0.6097 | 16.8879 | | | | | | 55,120.347 5 |

| | 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 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 22.2989 | 20.2707 | 211.6374 | 0.4313 | 61.0830 | 0.2267 | 61.3097 | 16.2781 | 0.2114 | 16.4895 | | | | | | 48,832.347 |
| Unmitigated | 22.2989 | 20.2707 | 211.6374 | 0.4313 | 61.0830 | 0.2267 | 61.3097 | 16.2781 | 0.2114 | 16.4895 | | | | | | 48,832.347 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.02 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| General Office Building | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| High Turnover (Sit Down Restaurant) | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| Industrial Park | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| Strip Mall | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| Unenclosed Parking with Elevator | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| User Defined Commercial | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |
| User Defined Industrial | 0.516633 | 0.070991 | 0.195744 | 0.128836 | 0.026081 | 0.007842 | 0.011970 | 0.007437 | 0.000933 | 0.000540 | 0.028760 | 0.000776 | 0.003457 |

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 | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| NaturalGas Unmitigated | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 39545.2 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3155.21 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9886.3 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 66.9863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 464.438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 39.5452 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3.15521 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9.8863 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 0.0669863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 0.464438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | 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 | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Unmitigated | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

6.2 Area by SubCategory

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0666 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Total | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0666 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Total | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

7.0 Water Detail

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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 |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Operations - Total Permitted Land Uses

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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-------------------------|---|-------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2045 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculation and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 104,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 129.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.02 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------|--------|---------------|
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,290.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,098.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 11,346.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 24,050,000.00 |

2.0 Emissions Summary**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 | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|--|--|--|--|--|--------------------|
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| Mobile | 22.2142 | 20.3855 | 210.0813 | 0.4245 | 61.0931 | 0.2115 | 61.3046 | 16.2823 | 0.1974 | 16.4797 | | | | | | 48,315.1609 |
| Total | 65.6307 | 25.5997 | 215.1836 | 0.4558 | 61.0931 | 0.6098 | 61.7029 | 16.2823 | 0.5958 | 16.8781 | | | | | | 54,603.1607 |

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 | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Energy | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| Mobile | 22.2142 | 20.3855 | 210.0813 | 0.4245 | 61.0931 | 0.2115 | 61.3046 | 16.2823 | 0.1974 | 16.4797 | | | | | | 48,315.1609 |
| Total | 65.6307 | 25.5997 | 215.1836 | 0.4558 | 61.0931 | 0.6098 | 61.7029 | 16.2823 | 0.5958 | 16.8781 | | | | | | 54,603.1607 |

| | 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 |

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | 22.2142 | 20.3855 | 210.0813 | 0.4245 | 61.0931 | 0.2115 | 61.3046 | 16.2823 | 0.1974 | 16.4797 | | | | | | 48,315.160 |
| Unmitigated | 22.2142 | 20.3855 | 210.0813 | 0.4245 | 61.0931 | 0.2115 | 61.3046 | 16.2823 | 0.1974 | 16.4797 | | | | | | 48,315.160 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.02 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| General Office Building | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| High Turnover (Sit Down Restaurant) | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| Industrial Park | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| Strip Mall | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| Unenclosed Parking with Elevator | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| User Defined Commercial | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |
| User Defined Industrial | 0.513803 | 0.071730 | 0.195358 | 0.129140 | 0.026589 | 0.008109 | 0.012209 | 0.007596 | 0.000946 | 0.000535 | 0.029664 | 0.000785 | 0.003536 |

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 | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |
| NaturalGas Unmitigated | 0.5728 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 39545.2 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3155.21 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9886.3 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 66.9863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 464.438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------|---------------|---------------|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|--|--|--|--|-------------------|
| General Office Building | 39.5452 | 0.4265 | 3.8770 | 3.2567 | 0.0233 | | 0.2947 | 0.2947 | | 0.2947 | 0.2947 | | | | | | 4,680.0239 |
| High Turnover (Sit Down Restaurant) | 3.15521 | 0.0340 | 0.3093 | 0.2598 | 1.8600e-003 | | 0.0235 | 0.0235 | | 0.0235 | 0.0235 | | | | | | 373.4065 |
| Industrial Park | 9.8863 | 0.1066 | 0.9693 | 0.8142 | 5.8200e-003 | | 0.0737 | 0.0737 | | 0.0737 | 0.0737 | | | | | | 1,170.0060 |
| Strip Mall | 0.0669863 | 7.2000e-004 | 6.5700e-003 | 5.5200e-003 | 4.0000e-005 | | 5.0000e-004 | 5.0000e-004 | | 5.0000e-004 | 5.0000e-004 | | | | | | 7.9276 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 0.464438 | 5.0100e-003 | 0.0455 | 0.0383 | 2.7000e-004 | | 3.4600e-003 | 3.4600e-003 | | 3.4600e-003 | 3.4600e-003 | | | | | | 54.9645 |
| Total | | 0.5729 | 5.2077 | 4.3744 | 0.0313 | | 0.3958 | 0.3958 | | 0.3958 | 0.3958 | | | | | | 6,286.3284 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Unmitigated | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

6.2 Area by SubCategory

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0666 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Total | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

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 | 4.9210 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 37.8561 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 0.0666 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |
| Total | 42.8437 | 6.5400e-003 | 0.7279 | 5.0000e-005 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | | | | | | 1.6714 |

7.0 Water Detail

TELEVISION CITY - INTERSECTION PEAK HOUR VOLUMES
FUTURE WITH PROJECT CONDITIONS (YEAR 2026)

| Signalized Intersections | | | Weekday Morning Peak Hour | | | | | | | | | | | | | Weekday Afternoon Peak Hour | | | | | | | | | | | | |
|--------------------------|------------------|----------------|---------------------------|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|-------|-----------------------------|-------|-----|-----|-------|-----|-------|-------|-----|-----|-------|-------|-------|
| # | N/S Street | E/W Street | SBR | SBT | SBL | WBR | WBT | WBL | NBR | NBT | NBL | EBR | EBT | EBL | Total | SBR | SBT | SBL | WBR | WBT | WBL | NBR | NBT | NBL | EBR | EBT | EBL | Total |
| 1 | Fairfax Avenue | Melrose Avenue | 290 | 1,087 | 95 | 57 | 1,487 | 227 | 103 | 818 | 74 | 98 | 793 | 95 | 5,224 | 184 | 877 | 107 | 103 | 931 | 208 | 199 | 1,163 | 110 | 80 | 1,090 | 195 | 5,247 |
| 2 | Fairfax Avenue | Clinton Street | 59 | 1,317 | 0 | 0 | 0 | 0 | 0 | 1,204 | 15 | 19 | 0 | 18 | 2,632 | 53 | 1,109 | 0 | 0 | 0 | 0 | 1,451 | 34 | 58 | 0 | 98 | 2,803 | |
| 3 | Fairfax Avenue | Rosewood Ave | 11 | 1,289 | 34 | 107 | 62 | 50 | 40 | 1,091 | 7 | 8 | 14 | 6 | 2,719 | 17 | 1,122 | 0 | 72 | 17 | 22 | 78 | 1,403 | 0 | 16 | 171 | 14 | 2,932 |
| 4 | Fairfax Avenue | Oakwood Ave | 47 | 1,264 | 11 | 47 | 173 | 33 | 16 | 1,070 | 14 | 85 | 46 | 27 | 2,833 | 68 | 1,078 | 0 | 36 | 56 | 33 | 56 | 1,377 | 5 | 92 | 277 | 71 | 3,149 |
| 5 | Fairfax Avenue | Beverly Boulev | 114 | 1,171 | 101 | 115 | 1,553 | 300 | 184 | 880 | 128 | 106 | 962 | 66 | 5,680 | 96 | 937 | 111 | 161 | 1,233 | 227 | 233 | 1,213 | 217 | 181 | 1,111 | 120 | 5,840 |
| 6 | Fairfax Avenue | Farmers Mark | 0 | 1,516 | 82 | 37 | 0 | 41 | 47 | 1,221 | 0 | 0 | 0 | 0 | 2,944 | 0 | 1,255 | 193 | 204 | 0 | 202 | 152 | 1,307 | 0 | 0 | 0 | 0 | 3,313 |
| 7 | Fairfax Avenue | 3rd Street | 103 | 1,343 | 114 | 151 | 1,230 | 294 | 94 | 986 | 102 | 81 | 641 | 153 | 5,292 | 163 | 1,092 | 223 | 186 | 741 | 155 | 156 | 1,139 | 123 | 109 | 1,012 | 223 | 5,322 |
| 8 | Fairfax Avenue | Colgate Avenue | 55 | 1,547 | 19 | 63 | 94 | 116 | 42 | 1,123 | 35 | 17 | 9 | 13 | 3,133 | 16 | 1,369 | 45 | 19 | 35 | 74 | 101 | 1,306 | 11 | 37 | 157 | 43 | 3,213 |
| 9 | Fairfax Avenue | Drexel Avenue | 79 | 1,609 | 0 | 0 | 0 | 0 | 0 | 1,186 | 120 | 22 | 0 | 26 | 3,042 | 52 | 1,408 | 0 | 0 | 0 | 0 | 0 | 1,231 | 41 | 74 | 0 | 167 | 2,973 |
| 10 | Fairfax Avenue | 6th Street | 168 | 1,254 | 179 | 613 | 496 | 237 | 95 | 985 | 89 | 24 | 239 | 29 | 4,408 | 40 | 1,325 | 456 | 265 | 382 | 169 | 210 | 986 | 38 | 18 | 337 | 42 | 4,268 |
| 11 | Fairfax Avenue | Wilshire Boule | 291 | 1,065 | 176 | 244 | 1,366 | 116 | 176 | 858 | 227 | 95 | 843 | 133 | 5,590 | 201 | 1,152 | 221 | 346 | 1,010 | 258 | 116 | 714 | 131 | 197 | 1,358 | 152 | 5,856 |
| 12 | Crescent Heigh | Beverly Boulev | 198 | 1,025 | 0 | 34 | 1,653 | 168 | 93 | 462 | 0 | 33 | 1,059 | 51 | 4,776 | 82 | 677 | 0 | 81 | 1,307 | 96 | 126 | 1,004 | 0 | 47 | 1,538 | 130 | 5,088 |
| 13 | Genesee Ave / | Beverly Boulev | 94 | 63 | 59 | 18 | 1,707 | 154 | 34 | 16 | 56 | 57 | 1,075 | 12 | 3,345 | 34 | 29 | 31 | 36 | 1,289 | 77 | 104 | 50 | 120 | 24 | 1,226 | 74 | 3,094 |
| 14 | Stanley Avenue | Beverly Boulev | 64 | 92 | 49 | 14 | 1,728 | 175 | 129 | 10 | 108 | 164 | 1,000 | 23 | 3,556 | 23 | 75 | 28 | 20 | 1,163 | 202 | 386 | 23 | 181 | 123 | 1,235 | 22 | 3,481 |
| 15 | Curson Avenue | Beverly Boulev | 47 | 7 | 43 | 15 | 1,872 | 19 | 23 | 1 | 4 | 17 | 1,169 | 12 | 3,229 | 47 | 6 | 28 | 40 | 1,457 | 27 | 62 | 14 | 11 | 21 | 1,480 | 50 | 3,243 |
| 16 | Gardner Street | Beverly Boulev | 41 | 62 | 41 | 29 | 1,836 | 14 | 18 | 50 | 62 | 58 | 1,150 | 15 | 3,376 | 42 | 67 | 32 | 23 | 1,460 | 36 | 42 | 89 | 70 | 89 | 1,421 | 54 | 3,425 |
| 17 | Martel Avenue | Beverly Boulev | 26 | 183 | 18 | 23 | 1,837 | 70 | 82 | 202 | 58 | 42 | 1,132 | 20 | 3,693 | 26 | 190 | 21 | 30 | 1,379 | 98 | 67 | 246 | 87 | 85 | 1,337 | 28 | 3,594 |
| 18 | Poinsettia Place | Beverly Boulev | 23 | 79 | 41 | 21 | 1,898 | 28 | 35 | 89 | 54 | 9 | 1,220 | 10 | 3,507 | 31 | 124 | 29 | 27 | 1,487 | 38 | 33 | 88 | 43 | 28 | 1,331 | 36 | 3,295 |
| 19 | Formosa Avenue | Beverly Boulev | 20 | 58 | 28 | 18 | 1,932 | 35 | 37 | 64 | 49 | 16 | 1,271 | 30 | 3,558 | 17 | 68 | 56 | 25 | 1,543 | 27 | 38 | 53 | 41 | 28 | 1,326 | 25 | 3,247 |
| 20 | La Brea Avenue | Beverly Bouli | 357 | 1,341 | 211 | 50 | 1,461 | 105 | 97 | 1,402 | 155 | 89 | 1,136 | 122 | 6,526 | 235 | 1,240 | 262 | 62 | 1,185 | 96 | 138 | 1,231 | 123 | 127 | 1,188 | 137 | 6,024 |
| 21 | The Grove Drive | Caruso Place | 156 | 261 | 0 | 0 | 0 | 0 | 0 | 371 | 54 | 10 | 0 | 16 | 868 | 89 | 421 | 0 | 0 | 0 | 0 | 0 | 309 | 129 | 203 | 0 | 144 | 1,295 |
| 22 | Crescent Heigh | 3rd Street | 144 | 1,044 | 0 | 61 | 1,330 | 0 | 17 | 512 | 0 | 34 | 769 | 0 | 3,911 | 63 | 738 | 0 | 76 | 858 | 0 | 45 | 1,142 | 0 | 71 | 1,131 | 0 | 4,124 |
| 23 | Edinburgh Ave | 3rd Street | 59 | 157 | 30 | 33 | 1,274 | 91 | 119 | 83 | 22 | 18 | 727 | 28 | 2,641 | 42 | 104 | 46 | 53 | 868 | 6 | 168 | 160 | 21 | 38 | 1,064 | 0 | 2,570 |
| 24 | Gilmore Lane / | 3rd Street | 46 | 0 | 0 | 59 | 1,665 | 153 | 139 | 0 | 58 | 28 | 854 | 12 | 3,014 | 117 | 0 | 0 | 120 | 1,055 | 183 | 269 | 0 | 66 | 56 | 1,286 | 55 | 3,207 |
| 25 | The Grove Drive | 3rd Street | 115 | 6 | 99 | 233 | 1,756 | 7 | 17 | 3 | 16 | 1 | 820 | 135 | 3,208 | 273 | 3 | 285 | 256 | 1,004 | 15 | 14 | 6 | 12 | 27 | 1,349 | 237 | 3,481 |
| 26 | Burnside | 3rd Street | 0 | 0 | 0 | 0 | 1,896 | 58 | 88 | 0 | 81 | 51 | 867 | 0 | 3,041 | 0 | 0 | 0 | 0 | 1,212 | 97 | 86 | 0 | 50 | 116 | 1,516 | 0 | 3,077 |
| 27 | Gardner Street | 3rd Street | 164 | 0 | 48 | 39 | 1,762 | 0 | 0 | 0 | 0 | 0 | 961 | 42 | 3,016 | 90 | 0 | 49 | 65 | 1,337 | 0 | 0 | 0 | 0 | 0 | 1,458 | 188 | 3,187 |
| 28 | Martel Avenue | 3rd Street | 87 | 375 | 25 | 22 | 1,521 | 100 | 244 | 374 | 194 | 140 | 844 | 21 | 3,947 | 40 | 420 | 41 | 33 | 1,133 | 122 | 160 | 437 | 161 | 215 | 1,234 | 30 | 4,026 |
| 29 | Fairfax Avenue | Project Drive | 0 | 1,608 | 0 | 14 | 0 | 0 | 41 | 1,142 | 0 | 0 | 0 | 0 | 2,805 | 0 | 1,293 | 0 | 42 | 0 | 0 | 17 | 1,587 | 0 | 0 | 0 | 0 | 2,939 |
| 30 | Fairfax Avenue | 1st Street/Pro | 26 | 1,619 | 86 | 20 | 0 | 27 | 57 | 1,271 | 27 | 56 | 0 | 9 | 3,198 | 39 | 1,261 | 36 | 62 | 0 | 83 | 24 | 1,711 | 49 | 138 | 0 | 28 | 3,431 |
| 31 | The Grove Drive | Project Drive | 123 | 325 | 0 | 0 | 0 | 0 | 0 | 331 | 164 | 54 | 0 | 41 | 1,038 | 51 | 387 | 0 | 0 | 0 | 0 | 0 | 419 | 68 | 166 | 0 | 125 | 1,216 |

6,526
65,260

6,024
60,240

TCV 2050 Project

Draft EIR

Appendix B-3-Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix B-3: Greenhouse Gas Worksheets and Modeling Output Files
 - Appendix B-3.1: GHG Modeling Parameters and Summary of Emissions
 - GHG Emissions Summary
 - GHG Parameters and Summary
 - VMT Calculations
 - Modeling Parameters
 - Electric Vehicle Charging and Solar Panel Calculations
 - SB 100
 - Appendix B-3.2: CalEEMod Outputs
 - Project Construction
 - Baseline (Existing Year)
 - Baseline (Buildout Year)
 - Project Operations
 - Project Operations No MXD
 - Project Max VMT and Natural Gas

CalEEMod Outputs

Construction Emissions - Annual

CalEEMod Output - Annual Construction

| Year | CO2e |
|--------------------------|------------|
| 2023 | 3221 |
| 2024 | 7695 |
| 2025 | 2524 |
| 2026 | 864 |
| 30-year Amortized | 477 |

Conceptual Land Use Program Operational Emissions - Annual

| | Baseline (Existing Year) | Baseline (Buildout Year) - No MXD | Project (Buildout Year) No MXD/PDFs | Project (Buildout Year) - With MXD/PDFs | Project (Buildout Year) - No MXD less Baseline | Project (Buildout Year) - With MM's less Baseline |
|-----------------------------------|--------------------------------|---|---|---|--|---|
| Category | CO2e | CO2e | CO2e | CO2e | Increment | Increment |
| Area | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 |
| Energy | 3819 | 3278 | 8438 | 7787 | 5160 | 4509 |
| Mobile | 2882 | 2478 | 11661 | 7272 | 9183 | 4795 |
| EV | (22) | (22) | (990) | (990) | (968) | (968) |
| Solar | (544) | (431) | 0 | (533) | 431 | (102) |
| Stationary (Emergency Generators) | 0.3 | 0.3 | 1.1 | 1 | 1 | 1 |
| Waste | 98 | 98 | 230 | 230 | 133 | 133 |
| Water | 968 | 851 | 1740 | 1740 | 889 | 889 |
| Operations Total | 7202 | 6251 | 21079 | 15507 | 14828 | 9256 |
| Construction Amortized | | | 477 | 477 | 477 | 477 |
| | | | 21556 | 15984 | 15305 | 9733 |

277687.7608

288,770

Land Use Exchange Electricity Operational Emissions - Annual

| | Baseline (Existing Year) | Baseline (Buildout Year) - No MXD | Project (Buildout Year) No MXD/PDFs | Project (Buildout Year) - With MXD/PDFs/MMs | | Project (Buildout Year) - With MM's less Baseline |
|-----------------------------------|--------------------------------|---|---|---|--------------|---|
| Category | CO2e | CO2e | CO2e | CO2e | Increment | Increment |
| Area | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 |
| Energy | 3819 | 3278 | 8298 | 7615 | 5020 | 4337 |
| Mobile | 2882 | 2478 | 7629 | 7049 | 5151 | 4572 |
| EV | (22) | (22) | (990) | (990) | (968) | (968) |
| Solar | (544) | (431) | 0 | (533) | 431 | (102) |
| Stationary (Emergency Generators) | 0.3 | 0.3 | 1.1 | 1.1 | 1 | 1 |
| Waste | 98 | 98 | 247 | 247 | 149 | 149 |
| Water | 968 | 851 | 1717 | 1717 | 866 | 866 |
| Operations Total | 7202 | 6251 | 16901 | 15106 | 10650 | 8855 |
| Construction Amortized | | | 477 | 477 | 477 | 477 |
| | | | 17378 | 15583 | 11127 | 9332 |

265647.5038

269,467

Land Use Exchange VMT/Natural Gas Operational Emissions - Annual

| | Baseline (Existing Year) | Baseline (Buildout Year) - No MXD | Project (Buildout Year) No MXD/PDFs | Project (Buildout Year) - With MXD/PDFs/MMs | Project (Buildout Year) - No MXD less Baseline | Project (Buildout Year) - With MM's less Baseline |
|-----------------------------------|--------------------------------|---|---|---|--|---|
| Category | CO2e | CO2e | CO2e | CO2e | Increment | Increment |
| Area | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 |
| Energy | 3819 | 3278 | 8438 | 7829 | 5160 | 4551 |
| Mobile | 2882 | 2478 | 8841 | 8169 | 6364 | 5692 |
| EV | (22) | (22) | (990) | (990) | (968) | (968) |
| Solar | (544) | (431) | 0 | (533) | 431 | (102) |
| Stationary (Emergency Generators) | 0.3 | 0.3 | 1.1 | 1.1 | 1 | 1 |
| Waste | 98 | 98 | 230 | 230 | 133 | 133 |
| Water | 968 | 851 | 1740 | 1740 | 889 | 889 |
| Operations Total | 7202 | 6251 | 18260 | 16447 | 12009 | 10196 |
| Construction Amortized | | | 477 | 477 | 477 | 477 |
| | | | 18737 | 16923 | 12486 | 10672 |

Television City
VMT Calculations for CalEEMod Inputs (Buildout Year)

VMT Summary

| Generation Rates for Weekend Scalar (CalEEMod Defaults) | | DU/KSF | Weekday | Rate (Daily) | | Passby % | Daily Trips | | |
|---|-----|--------|---------|--------------|--------|----------|-------------|----------|--------|
| | | | | Saturday | Sunday | | Weekday | Saturday | Sunday |
| Existing Uses | | | | | | | | | |
| Stages | ksf | 95.54 | 3.37 | 2.54 | 1.24 | 4% | 309 | 233 | |
| Production Support | ksf | 325.45 | 3.37 | 2.54 | 1.24 | 4% | 1053 | 794 | |
| Production Office | ksf | 163.09 | 9.74 | 2.21 | 0.7 | 2% | 1557 | 353 | |
| General Office | ksf | 159.6 | 9.74 | 2.21 | 0.7 | 2% | 1523 | 346 | |
| Retail | ksf | 0 | 42.04 | 20.43 | 0.7 | 2% | 0 | 0 | |
| Surface Parking Spaces | PS | | 1510 | | | | | | |
| New Construction | | | | | | | | | |
| Stages | ksf | 295.82 | 3.37 | 2.54 | 1.24 | 4% | 957 | 721 | |
| Production Support | ksf | 80.89 | 3.37 | 2.54 | 1.24 | 4% | 262 | 197 | |
| Production Office | ksf | 635.4 | 9.74 | 2.21 | 0.7 | 2% | 6065 | 1376 | |
| General Office | ksf | 594.07 | 9.74 | 2.21 | 0.7 | 2% | 5671 | 1287 | |
| Retail | ksf | 20 | 42.04 | 20.43 | 0.7 | 2% | 824 | 400 | |
| Subterranean Parking | PS | 2600 | | | | | | | |
| Above Grade Parking | PS | 2700 | | | | | | | |
| Existing Uses to Remain | | | | | | | | | |
| Stages | ksf | 54.18 | 3.37 | 2.54 | 1.24 | 4% | 175 | 132 | |
| Production Support | ksf | 23.11 | 3.37 | 2.54 | 1.24 | 4% | 75 | 56 | |
| Production Office | ksf | 64.6 | 9.74 | 2.21 | 0.7 | 2% | 617 | 140 | |
| General Office | ksf | 105.93 | 9.74 | 2.21 | 0.7 | 2% | 1011 | 229 | |
| Total | | | 7174 | | | | 15656 | 4540 | |
| Buildout | | | | | | | | | |
| Stages | | 350 | | | | | | | |
| Production Support | | 104 | | | | | | | |
| Production Office | | 700 | | | | | | | |
| General Office | | 700 | | | | | | | |
| Retail | | 20 | | | | | | | |
| Total: | | 1874 | | | | | | | |

Production support weekend rates are anticipated to track with Stages.

Production support weekend rates are anticipated to track with Stages.

| | Project Weekday Trips | Saturday Trips | Sunday Trips | Saturday Vs. Weekday | |
|-------------|-----------------------|----------------|--------------|----------------------|---------------|
| | | | | Ratio | Weekday Ratio |
| Daily Trips | 15656 | 4540 | 1515 | 0.29 | 0.10 |

| | | | | |
|----------------|------|-------------|-------|-----|
| Existing Uses: | 3891 | Daily Trips | 28021 | VTM |
|----------------|------|-------------|-------|-----|

Project without TDM (MXD Data)

| | Unadjusted Trips Pre MXD | MXD Adjustment | MXD Trips | Average Trip Length | Unadjusted Pre MXD VMT | MXD VMT | Percent Reduction for MXD |
|---------------------------------|--------------------------|----------------|-----------|---------------------|------------------------|---------|---------------------------|
| | 0 | 0.0% | 0 | 6.5 | 0 | 0 | |
| Home Based Work Production | 0 | 0.0% | 0 | 4.7 | 0 | 0 | |
| Home Based Other Production | 2,296 | -9.2% | 2085 | 6.3 | 14,465 | 13,136 | |
| Non-Home Based Other Production | 8,459 | -22.9% | 6525 | 8.1 | 68,518 | 52,853 | |
| Home-Based Work Attraction | 4,701 | -37.6% | 2933 | 6.2 | 29,146 | 18,185 | |
| Home-Based Other Attraction | 2,296 | -9.4% | 2081 | 6.2 | 14,235 | 12,902 | |
| Total | 17,752 | | 13,624 | | 126,364 | 97,076 | 23% |
| Work VMT | | | 13,624 | | | 52,853 | 6.7 Employees 7832 |

Project with TDM (MXD Data)

| | Proposed Project | | | Project with Mitigation Measures | | | |
|---------------------------------|------------------|---------------|-------------|----------------------------------|-----------------|---------------|--------------------|
| | TDM Adjustment | Project Trips | Project VMT | TDM Adjustment | Mitigated Trips | Mitigated VMT | |
| Home Based Work Production | -1.2% | 0 | 0 | -1.2% | 0 | 0 | |
| Home Based Other Production | -1.2% | 0 | 0 | -1.2% | 0 | 0 | |
| Non-Home Based Other Production | -1.2% | 2,059 | 12,972 | -1.2% | 2,059 | 12,972 | |
| Home-Based Work Attraction | -1.2% | 6,444 | 52,194 | -1.2% | 6,444 | 52,194 | |
| Home-Based Other Attraction | -1.2% | 2,896 | 17,958 | -1.2% | 2,896 | 17,958 | |
| Non-Home Based Other Attraction | -1.2% | 2,055 | 12,741 | -1.2% | 2,055 | 12,741 | 24% |
| Total | | 13,454 | 95,865 | | 13,454 | 95,865 | |
| | | | 95,865 | | | 52,194 | 6.7 Employees 7832 |

Project with Full TDM (MXD Data)

| | Proposed Project | | | Project with Mitigation Measures | | | |
|---------------------------------|------------------|---------------|-------------|----------------------------------|-----------------|---------------|--------------------|
| | TDM Adjustment | Project Trips | Project VMT | TDM Adjustment | Mitigated Trips | Mitigated VMT | |
| Home Based Work Production | -7.6% | 0 | 0 | -7.6% | 0 | 0 | |
| Home Based Other Production | -7.6% | 0 | 0 | -7.6% | 0 | 0 | |
| Non-Home Based Other Production | -7.6% | 1,927 | 12,143 | -7.6% | 1,927 | 12,143 | |
| Home-Based Work Attraction | -7.6% | 4,784 | 38,748 | -7.6% | 4,784 | 38,748 | |
| Home-Based Other Attraction | -7.6% | 2,711 | 16,811 | -7.6% | 2,711 | 16,811 | |
| Non-Home Based Other Attraction | -7.6% | 1,924 | 11,927 | -7.6% | 1,924 | 11,927 | 37% |
| Total | | 11,346 | 79,629 | | 11,346 | 79,629 | |
| | | | 79,629 | | | 38,748 | 4.9 Employees 7832 |

Source: Gibson Transportation Consulting, Inc.

CalEEMod Inputs - PASTE THIS INTO CALEEMOD INPUT FILE

| VehicleTripsLandUseSubType | VehicleTripsLandUseSubType | WD_TR | ST_TR | SU_TR | HW_TL | HS_TL | HO_TL | CC_TL | CW_TL | CNW_TL | PR_TP | DV_TP | PB_TP | HW_TTP | HS_TTP | HO_TTP | CC_TTP | CW_TTP | CNW_TTP |
|---|----------------------------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|---------|
| Existing User Defined Commercial | User Defined Unit | 3,891 | 1,128 | 376 | 0 | 0 | 0 | 7.20 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| No MXD User Defined Res. (VMT) | User Defined Unit | 17,752 | 5,147 | 1,717 | 0 | 0 | 0 | 7.12 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| Project User Defined Res. (VMT) | User Defined Unit | 13,624 | 3,950 | 1,318 | 0 | 0 | 0 | 7.13 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| Project TDM/MM User Defined Res. (VMT) | User Defined Unit | 13,454 | 3,901 | 1,302 | 0 | 0 | 0 | 7.13 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| Project Full TDM/MM User Defined Res. (VMT) | User Defined Unit | 11,346 | 3,290 | 1,098 | 0 | 0 | 0 | 7.02 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |

Calculation of Parking Garage Ventilation Energy Factor

| | | |
|--|----------------------|--|
| Full Power Ventilation Flowrate: | 0.5 cfm/sf | Section 120.6(c) of California Building Code, Mandatory Requirements for Enclosed Parking Garages, provides a minimum 0.15 cfm/sf flowrate. Conservatively assumed 0.5 cfm/sf. |
| Fan Horsepower/1,000 sf: | 0.19 hp/1,000 sf | Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%) |
| Setback Mode Power Ventilation Flowrate: | 0.05 cfm/sf | Energy Star technical reference recommends a minimum flow rate of 0.05 cfm/sf when fan is in setback mode. |
| Fan Horsepower/1,000 sf: | 0.02 hp/1,000 sf | Fan Horsepower = (CFM x Static Pressure of 1.6 in WC)/(6356 x Motor Fan Efficiency of 65%) |
| Fan Horsepower/1,000 sf per Day: | 1.51 hp/1,000 sf/Day | Energy Star technical reference recommends 6 hours per day at full power and 18 hours per day at 0.05 cfm/sf in setback mode |
| Horsepower to kW Conv. | 0.746 kW per hp | |
| Fan kW/1,000 sf per Day: | 1.13 kW/1,000 sf/Day | |
| Annual kW/sf | 0.41 kWh/sf Annual | |

Consumer Products Use:

Calculated consistent with Appendix E3-Consumer Products Use (CalEEMod User's Guide)

| | | |
|--|--------------------|---------------------------|
| | Total VOC (lbs/sf) | |
| 2008 ARB Emission Inventory (Consumer Products) | 239.60 | 2.14E-05 Statewide Factor |
| SCAQMD Rule 1143 reduction to 25 g/l as of 1/1/11 | 17.50 | 1.98E-05 AQMD Factor |
| Notes: CalEEMod assumes a Statewide building area of 22,435,267,518 square feet in 2008. | | |

Update to reflect 2012 ARB emission inventory (Consumer Products)

| | | |
|---|--------------------|---------------------------|
| | Total VOC (lbs/sf) | |
| 2012 ARB emission Inventory (Consumer Products) | 208.71 | 1.86E-05 Statewide Factor |
| SCAQMD Rule 1143 reduction to 25 g/l as of 1/1/11 | 17.50 | 1.70E-05 AQMD Factor |
| Notes: Conservatively assumes that Statewide building area of 22,435,267,518 square feet has not increased. | | |

Energy Reduction Measures Included in CalEEMod Run:

High Efficiency Lighting (25%)

Water Reduction Measures Included in CalEEMod Run:

20 Percent Reduction Beyond Code Requirements

Waste Diversion Rate Reduction Measures Included in CalEEMod Run:

-Project assumes a 76.4% Diversion Rate (Los Angeles, 2011)

GHG Emissions Reductions for Residential Uses Associated with City Codes (Electric Vehicle Charging Stations/Plugs)**GHG Emissions Reductions for Commercial Uses Associated with City Codes (Electric Vehicle Charging Stations/Plugs)****Step 1: Estimating GHG Emissions Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle**

| | Existing | Existing (Buildout) | Buildout |
|--|----------|---------------------|-----------------------------------|
| LADWP Electricity Emission Factor ¹ | 0.31 | 0.27 | 0.27 MTCO ₂ E/MWh |
| Fuel Economy of Electric Vehicle ² | 0.39 | 0.38 | 0.38 kWh/mile |
| Gasoline/Diesel CO ₂ Emissions While Running ³ | 320 | 306 | 306 grams/mile |
| Annual VMT Reduction per Parking Spot ⁴ | 9,125 | 9,125 | 9,125 miles/charging station/year |
| Number of On-Site Chargers ⁵ | 12 | 12 | 530 |
| Annual VMT Reduction All Stations/Plugs (Based on Charge) | 109,500 | 109,500 | 4,836,250 |
| Energy Usage for Charging Vehicles | 34,371 | 29,064 | 1,283,665 kWh/year |

Step 2: Estimating GHG Emissions Reduction from Installing Electric Vehicle Charging Stations/Plugs

| | | | |
|--|----|----|-------------------------------|
| GHG Emissions of Gasoline/Diesel Vehicle | 35 | 34 | 1,480 MTCO ₂ E/MWh |
| GHG Emissions of Electric Vehicle | 13 | 11 | 490 MTCO ₂ E/MWh |
| GHG Emissions Reduction | 22 | 22 | 990 MTCO ₂ E/MWh |

Notes:

- 1) CO₂ intensity factor reflects a 2026 RPS for LADWP (585 lbs of CO₂E/MWh).
- 2) CARB, EMFAC 2021, Electric and Plug-in vehicles for 2026.
- 3) CARB, 2021. EMFAC2021, running exhaust emission rate for CO₂ and CH₄ for light duty gasoline- and diesel-powered vehicles in Los Angeles, aggregated for all models and speeds, averaged over all seasons for 2026.
- 4) Annual VMT reduction estimated based on an estimate of 10 hours of charge time for a Level 2 charging station that charges at a rate of 25 driving range per hour. It is conservatively assumed that 20% of the miles charged would be driven by the charged vehicles.
- 5) City Code requires 10% of parking spaces to be equipped with EV chargers.

GHG Emissions Reductions for Solar Panels

| | | | | |
|---|---------------------|-------------------------|------------------------|-------|
| Existing: | | | | |
| Existing Solar Array: | 1,617 | Annual Mwh in Year 2019 | | |
| Existing CO ₂ Intensity (lb/MWh) | 739 CO ₂ | 0.029 CH ₄ | 0.006 N ₂ O | |
| Global Warming Potential | 1 CO ₂ | 25 CH ₄ | 298 N ₂ O | |
| CO ₂ e | (543.99) mtons/yr | | | 128.7 |
| Existing (Year 2026): | | | | |
| Existing Solar Array: | 1,617 | Annual Mwh in Year 2026 | | |
| CO ₂ Intensity in 2026 (lb/MWh) | 585 CO ₂ | 0.029 CH ₄ | 0.006 N ₂ O | |
| Global Warming Potential | 1 CO ₂ | 25 CH ₄ | 298 N ₂ O | |
| CO ₂ e | (430.92) mtons/yr | | | |
| Buildout: | | | | |
| | 2000 | | | |
| CO ₂ Intensity in 2026 (lb/MWh) | 585 CO ₂ | 0.029 CH ₄ | 0.006 N ₂ O | |
| Global Warming Potential | 1 CO ₂ | 25 CH ₄ | 298 N ₂ O | |
| CO ₂ e | (532.98) mtons/yr | | | |

SB100 - Renewable Portfolio Standards

| Year | % RPS | RPS Reduction (%) | Carbon Intensity (lbs/MWh) |
|------|-------|-------------------|----------------------------|
| 2015 | 20 | -20% | 1131 |
| 2016 | 29 | -31% | 834 |
| 2017 | 31 | -6% | 780 |
| 2020 | 33 | -6% | 733 |
| 2026 | 46 | -29% | 520 |
| 2030 | 60 | -23% | 403 |
| 2036 | 65 | -8% | 372 |
| 2045 | 100 | -35% | 0 |

| Build Out Year | Carbon Intensity (lbs/MWh) |
|----------------|----------------------------|
| 2026 | 585 |
| 2043 | 336 |

TVC Construction - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Construction
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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| Industrial Park | 454.00 | 1000sqft | 10.42 | 454,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|-----------------------------|---|-----------------------------|-------|-----------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2027 |
| 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 -

Construction Phase - Project Specific Construction Schedule

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Off-road Equipment - Site Specific Equipment Mix

Trips and VMT - Site Specific Trips; Hauling includes 8,572 trips associated with a conservative 60,000 cy of contaminated soil export (Buttonwillow Landfill)

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Tier 4 Equipment Mitigation

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 6.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 5.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |

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| | | | |
|-------------------------|----------------------------|------------|--------------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstEquipMitigation | Tier | No Change | Tier 4 Final |
| tblConstructionPhase | NumDays | 100.00 | 65.00 |
| tblConstructionPhase | NumDays | 155.00 | 185.00 |
| tblConstructionPhase | NumDays | 60.00 | 5.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 235.00 |
| tblConstructionPhase | NumDays | 110.00 | 304.00 |
| tblConstructionPhase | NumDays | 110.00 | 21.00 |
| tblGrading | MaterialExported | 0.00 | 772,000.00 |
| tblGrading | MaterialImported | 0.00 | 50,000.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | UsageHours | 6.00 | 8.00 |
| tblOffRoadEquipment | UsageHours | 7.00 | 8.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 145.00 |
| tblTripsAndVMT | HaulingTripNumber | 2,255.00 | 0.00 |
| tblTripsAndVMT | HaulingTripNumber | 102,750.00 | 8,572.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripLength | 6.90 | 32.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 80.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 640.00 |

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| | | | |
|----------------|--------------------|----------|----------|
| tblTripsAndVMT | VendorTripNumber | 0.00 | 1,000.00 |
| tblTripsAndVMT | VendorTripNumber | 655.00 | 100.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 60.00 |
| tblTripsAndVMT | VendorTripNumber | 0.00 | 10.00 |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | VendorVehicleClass | HDT_Mix | HHDT |
| tblTripsAndVMT | WorkerTripNumber | 23.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 68.00 | 490.00 |
| tblTripsAndVMT | WorkerTripNumber | 30.00 | 100.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,536.00 | 1,350.00 |
| tblTripsAndVMT | WorkerTripNumber | 307.00 | 1,480.00 |
| tblTripsAndVMT | WorkerTripNumber | 13.00 | 100.00 |

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.4458 | 8.4324 | 4.6669 | 0.0320 | 1.8324 | 0.1713 | 2.0036 | 0.5779 | 0.1609 | 0.7388 | | | | | | 3,220.7834 |
| 2024 | 1.1900 | 18.3256 | 13.0437 | 0.0770 | 4.2339 | 0.3589 | 4.5929 | 1.4444 | 0.3377 | 1.7821 | | | | | | 7,694.5856 |
| 2025 | 6.7260 | 3.1243 | 9.9877 | 0.0269 | 2.4676 | 0.1187 | 2.5863 | 0.6570 | 0.1138 | 0.7708 | | | | | | 2,524.4346 |
| 2026 | 3.4641 | 0.9332 | 3.2826 | 9.1200e-003 | 0.9001 | 0.0361 | 0.9361 | 0.2395 | 0.0350 | 0.2745 | | | | | | 863.5367 |
| Maximum | 6.7260 | 18.3256 | 13.0437 | 0.0770 | 4.2339 | 0.3589 | 4.5929 | 1.4444 | 0.3377 | 1.7821 | | | | | | 7,694.5856 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|---------|---------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.2118 | 5.7972 | 5.5224 | 0.0320 | 1.2623 | 0.0485 | 1.3108 | 0.3748 | 0.0470 | 0.4217 | | | | | | 3,220.7827 |
| 2024 | 0.7271 | 13.1243 | 14.9015 | 0.0770 | 3.3995 | 0.1170 | 3.5165 | 1.0367 | 0.1131 | 1.1498 | | | | | | 7,694.5841 |
| 2025 | 6.5171 | 1.2790 | 10.2125 | 0.0269 | 2.4676 | 0.0274 | 2.4950 | 0.6570 | 0.0263 | 0.6833 | | | | | | 2,524.4341 |
| 2026 | 3.3912 | 0.3733 | 3.3065 | 9.1200e-003 | 0.9001 | 7.5600e-003 | 0.9076 | 0.2395 | 7.1500e-003 | 0.2467 | | | | | | 863.5365 |
| Maximum | 6.5171 | 13.1243 | 14.9015 | 0.0770 | 3.3995 | 0.1170 | 3.5165 | 1.0367 | 0.1131 | 1.1498 | | | | | | 7,694.5841 |

| | 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 | 8.28 | 33.24 | -9.56 | 0.00 | 14.89 | 70.73 | 18.67 | 20.93 | 70.11 | 29.86 | 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) |
|---------|------------|-----------|--|--|
| 9 | 8-5-2023 | 11-4-2023 | 2.4898 | 1.6283 |

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| | | | | |
|----|-----------|-----------|--------|--------|
| 10 | 11-5-2023 | 2-4-2024 | 9.5638 | 6.7173 |
| 11 | 2-5-2024 | 5-4-2024 | 8.2042 | 6.0736 |
| 12 | 5-5-2024 | 8-4-2024 | 5.6753 | 4.0805 |
| 13 | 8-5-2024 | 11-4-2024 | 1.2385 | 0.5566 |
| 14 | 11-5-2024 | 2-4-2025 | 1.2136 | 0.5636 |
| 15 | 2-5-2025 | 5-4-2025 | 2.0796 | 1.3688 |
| 16 | 5-5-2025 | 8-4-2025 | 2.9770 | 2.4442 |
| 17 | 8-5-2025 | 11-4-2025 | 2.6563 | 2.2990 |
| 18 | 11-5-2025 | 2-4-2026 | 2.6642 | 2.3069 |
| 19 | 2-5-2026 | 5-4-2026 | 2.5709 | 2.2183 |
| 20 | 5-5-2026 | 8-4-2026 | 0.8566 | 0.7048 |
| | | Highest | 9.5638 | 6.7173 |

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 | 10/1/2023 | 12/31/2023 | 5 | 65 | |
| 2 | Excavation/Foundations | Grading | 10/16/2023 | 6/30/2024 | 5 | 185 | |
| 3 | Mat Foundation | Site Preparation | 7/1/2024 | 7/7/2024 | 5 | 5 | |
| 4 | Structure/Enclosure | Building Construction | 7/8/2024 | 5/31/2025 | 5 | 235 | |
| 5 | Architectural Coating/Finishing | Architectural Coating | 4/1/2025 | 5/31/2026 | 5 | 304 | |
| 6 | Paving/Landscape | Paving | 5/1/2026 | 5/31/2026 | 5 | 21 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 277.5

Acres of Paving: 47.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,811,000; Non-Residential Outdoor: 937,000; Striped Parking Area: 127,200

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------------|------------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 2 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 4 | 8.00 | 158 | 0.38 |
| Demolition | Other Construction Equipment | 1 | 8.00 | 172 | 0.42 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Bore/Drill Rigs | 6 | 8.00 | 221 | 0.50 |
| Excavation/Foundations | Cranes | 2 | 8.00 | 231 | 0.29 |
| Excavation/Foundations | Excavators | 3 | 8.00 | 158 | 0.38 |
| Excavation/Foundations | Graders | 0 | 8.00 | 187 | 0.41 |
| Excavation/Foundations | Other Construction Equipment | 2 | 8.00 | 172 | 0.42 |
| Excavation/Foundations | Pumps | 4 | 8.00 | 84 | 0.74 |
| Excavation/Foundations | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Excavation/Foundations | Rubber Tired Loaders | 2 | 8.00 | 203 | 0.36 |
| Excavation/Foundations | Scrapers | 0 | 8.00 | 367 | 0.48 |
| Excavation/Foundations | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Excavation/Foundations | Welders | 2 | 8.00 | 46 | 0.45 |
| Mat Foundation | Plate Compactors | 6 | 8.00 | 8 | 0.43 |
| Mat Foundation | Pumps | 6 | 8.00 | 84 | 0.74 |
| Mat Foundation | Rubber Tired Dozers | 0 | 8.00 | 247 | 0.40 |
| Mat Foundation | Tractors/Loaders/Backhoes | 0 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Cranes | 0 | 7.00 | 231 | 0.29 |
| Structure/Enclosure | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Structure/Enclosure | Generator Sets | 0 | 8.00 | 84 | 0.74 |

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| | | | | | |
|---------------------------------|------------------------------|---|------|-----|------|
| Structure/Enclosure | Other Construction Equipment | 4 | 8.00 | 172 | 0.42 |
| Structure/Enclosure | Pumps | 2 | 8.00 | 84 | 0.74 |
| Structure/Enclosure | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Structure/Enclosure | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating/Finishing | Air Compressors | 6 | 8.00 | 78 | 0.48 |
| Architectural Coating/Finishing | Forklifts | 2 | 8.00 | 89 | 0.20 |
| Paving/Landscape | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving/Landscape | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving/Landscape | Rollers | 1 | 8.00 | 80 | 0.38 |
| Paving/Landscape | Skid Steer Loaders | 2 | 8.00 | 65 | 0.37 |
| Paving/Landscape | Trenchers | 1 | 8.00 | 78 | 0.50 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 9 | 100.00 | 80.00 | 0.00 | 14.70 | 32.00 | 20.00 | LD_Mix | HHDT | HHDT |
| Excavation/Foundations | 27 | 490.00 | 640.00 | 8,572.00 | 14.70 | 32.00 | 145.00 | LD_Mix | HHDT | HHDT |
| Mat Foundation | 12 | 100.00 | 1,000.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HHDT | HHDT |
| Structure/Enclosure | 11 | 1,350.00 | 100.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating/Finishing | 8 | 1,480.00 | 60.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving/Landscape | 5 | 100.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.2441 | 0.0000 | 0.2441 | 0.0370 | 0.0000 | 0.0370 | | | | | | 0.0000 |
| Off-Road | 0.1021 | 0.9443 | 0.9932 | 1.8300e-003 | | 0.0449 | 0.0449 | | 0.0420 | 0.0420 | | | | | | 161.3886 |
| Total | 0.1021 | 0.9443 | 0.9932 | 1.8300e-003 | 0.2441 | 0.0449 | 0.2889 | 0.0370 | 0.0420 | 0.0789 | | | | | | 161.3886 |

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 |
| Vendor | 7.1900e-003 | 0.5430 | 0.1221 | 2.3900e-003 | 0.0715 | 3.4100e-003 | 0.0750 | 0.0197 | 3.2600e-003 | 0.0229 | | | | | | 250.2746 |
| Worker | 0.0103 | 8.1900e-003 | 0.1110 | 3.1000e-004 | 0.0356 | 2.2000e-004 | 0.0358 | 9.4600e-003 | 2.0000e-004 | 9.6600e-003 | | | | | | 28.9420 |
| Total | 0.0175 | 0.5512 | 0.2331 | 2.7000e-003 | 0.1072 | 3.6300e-003 | 0.1108 | 0.0291 | 3.4600e-003 | 0.0326 | | | | | | 279.2166 |

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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 | | | | | 0.0952 | 0.0000 | 0.0952 | 0.0144 | 0.0000 | 0.0144 | | | | | | 0.0000 |
| Off-Road | 0.0216 | 0.0936 | 1.1625 | 1.8300e-003 | | 2.8800e-003 | 2.8800e-003 | | 2.8800e-003 | 2.8800e-003 | | | | | | 161.3884 |
| Total | 0.0216 | 0.0936 | 1.1625 | 1.8300e-003 | 0.0952 | 2.8800e-003 | 0.0981 | 0.0144 | 2.8800e-003 | 0.0173 | | | | | | 161.3884 |

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 |
| Vendor | 7.1900e-003 | 0.5430 | 0.1221 | 2.3900e-003 | 0.0715 | 3.4100e-003 | 0.0750 | 0.0197 | 3.2600e-003 | 0.0229 | | | | | | 250.2746 |
| Worker | 0.0103 | 8.1900e-003 | 0.1110 | 3.1000e-004 | 0.0356 | 2.2000e-004 | 0.0358 | 9.4600e-003 | 2.0000e-004 | 9.6600e-003 | | | | | | 28.9420 |
| Total | 0.0175 | 0.5512 | 0.2331 | 2.7000e-003 | 0.1072 | 3.6300e-003 | 0.1108 | 0.0291 | 3.4600e-003 | 0.0326 | | | | | | 279.2166 |

3.3 Excavation/Foundations - 2023**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.6905 | 0.0000 | 0.6905 | 0.2960 | 0.0000 | 0.2960 | | | | | | 0.0000 |
| Off-Road | 0.2235 | 2.1049 | 1.9507 | 4.8100e-003 | | 0.0912 | 0.0912 | | 0.0854 | 0.0854 | | | | | | 422.2939 |
| Total | 0.2235 | 2.1049 | 1.9507 | 4.8100e-003 | 0.6905 | 0.0912 | 0.7817 | 0.2960 | 0.0854 | 0.3814 | | | | | | 422.2939 |

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 | 0.0114 | 1.1222 | 0.2031 | 5.2000e-003 | 0.1588 | 7.5200e-003 | 0.1663 | 0.0436 | 7.2000e-003 | 0.0508 | | | | | | 543.7199 |
| Vendor | 0.0486 | 3.6759 | 0.8265 | 0.0162 | 0.4843 | 0.0231 | 0.5074 | 0.1330 | 0.0221 | 0.1551 | | | | | | 1,694.1666 |
| Worker | 0.0428 | 0.0340 | 0.4603 | 1.2800e-003 | 0.1477 | 9.1000e-004 | 0.1486 | 0.0392 | 8.4000e-004 | 0.0401 | | | | | | 119.9979 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|------------|
| Total | 0.1028 | 4.8321 | 1.4899 | 0.0227 | 0.7907 | 0.0315 | 0.8222 | 0.2158 | 0.0301 | 0.2459 | | | | | | 2,357.8843 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|------------|

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 | | | | | 0.2693 | 0.0000 | 0.2693 | 0.1155 | 0.0000 | 0.1155 | | | | | | 0.0000 |
| Off-Road | 0.0699 | 0.3203 | 2.6369 | 4.8100e-003 | | 0.0105 | 0.0105 | | 0.0105 | 0.0105 | | | | | | 422.2934 |
| Total | 0.0699 | 0.3203 | 2.6369 | 4.8100e-003 | 0.2693 | 0.0105 | 0.2798 | 0.1155 | 0.0105 | 0.1259 | | | | | | 422.2934 |

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 | 0.0114 | 1.1222 | 0.2031 | 5.2000e-003 | 0.1588 | 7.5200e-003 | 0.1663 | 0.0436 | 7.2000e-003 | 0.0508 | | | | | | 543.7199 |
| Vendor | 0.0486 | 3.6759 | 0.8265 | 0.0162 | 0.4843 | 0.0231 | 0.5074 | 0.1330 | 0.0221 | 0.1551 | | | | | | 1,694.1666 |
| Worker | 0.0428 | 0.0340 | 0.4603 | 1.2800e-003 | 0.1477 | 9.1000e-004 | 0.1486 | 0.0392 | 8.4000e-004 | 0.0401 | | | | | | 119.9979 |
| Total | 0.1028 | 4.8321 | 1.4899 | 0.0227 | 0.7907 | 0.0315 | 0.8222 | 0.2158 | 0.0301 | 0.2459 | | | | | | 2,357.8843 |

3.3 Excavation/Foundations - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 1.3679 | 0.0000 | 1.3679 | 0.6684 | 0.0000 | 0.6684 | | | | | | 0.0000 |
| Off-Road | 0.5103 | 4.7128 | 4.6084 | 0.0114 | | 0.2008 | 0.2008 | | 0.1877 | 0.1877 | | | | | | 998.8873 |
| Total | 0.5103 | 4.7128 | 4.6084 | 0.0114 | 1.3679 | 0.2008 | 1.5687 | 0.6684 | 0.1877 | 0.8561 | | | | | | 998.8873 |

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 | 0.0266 | 2.6622 | 0.4936 | 0.0121 | 0.3753 | 0.0179 | 0.3932 | 0.1031 | 0.0172 | 0.1202 | | | | | | 1,267.0309 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|-------------------|
| Vendor | 0.1141 | 8.7149 | 1.9945 | 0.0377 | 1.1447 | 0.0550 | 1.1997 | 0.3144 | 0.0526 | 0.3670 | | | | | | 3,947.9080 |
| Worker | 0.0944 | 0.0717 | 1.0135 | 2.9400e-003 | 0.3490 | 2.0600e-003 | 0.3511 | 0.0927 | 1.9000e-003 | 0.0946 | | | | | | 277.6824 |
| Total | 0.2351 | 11.4487 | 3.5017 | 0.0527 | 1.8690 | 0.0750 | 1.9440 | 0.5101 | 0.0717 | 0.5818 | | | | | | 5,492.6213 |

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 | | | | | 0.5335 | 0.0000 | 0.5335 | 0.2607 | 0.0000 | 0.2607 | | | | | | 0.0000 |
| Off-Road | 0.1628 | 0.7519 | 6.2307 | 0.0114 | | 0.0238 | 0.0238 | | 0.0238 | 0.0238 | | | | | | 998.8861 |
| Total | 0.1628 | 0.7519 | 6.2307 | 0.0114 | 0.5335 | 0.0238 | 0.5573 | 0.2607 | 0.0238 | 0.2845 | | | | | | 998.8861 |

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 | 0.0266 | 2.6622 | 0.4936 | 0.0121 | 0.3753 | 0.0179 | 0.3932 | 0.1031 | 0.0172 | 0.1202 | | | | | | 1,267.0309 |
| Vendor | 0.1141 | 8.7149 | 1.9945 | 0.0377 | 1.1447 | 0.0550 | 1.1997 | 0.3144 | 0.0526 | 0.3670 | | | | | | 3,947.9080 |
| Worker | 0.0944 | 0.0717 | 1.0135 | 2.9400e-003 | 0.3490 | 2.0600e-003 | 0.3511 | 0.0927 | 1.9000e-003 | 0.0946 | | | | | | 277.6824 |
| Total | 0.2351 | 11.4487 | 3.5017 | 0.0527 | 1.8690 | 0.0750 | 1.9440 | 0.5101 | 0.0717 | 0.5818 | | | | | | 5,492.6213 |

3.4 Mat Foundation - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|-----------|-----------|-----|-----|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 5.1900e-003 | 0.0425 | 0.0590 | 1.1000e-004 | | 1.9100e-003 | 1.9100e-003 | | 1.9100e-003 | 1.9100e-003 | | | | | | 8.9578 |
| Total | 5.1900e-003 | 0.0425 | 0.0590 | 1.1000e-004 | 0.0000 | 1.9100e-003 | 1.9100e-003 | 0.0000 | 1.9100e-003 | 1.9100e-003 | | | | | | 8.9578 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

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| 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 |
| Vendor | 3.4700e-003 | 0.1492 | 0.0555 | 5.4000e-004 | 0.0149 | 7.3000e-004 | 0.0156 | 4.0900e-003 | 7.0000e-004 | 4.7900e-003 | | | | | | 56.3400 |
| Worker | 7.4000e-004 | 5.6000e-004 | 7.9600e-003 | 2.0000e-005 | 2.7400e-003 | 2.0000e-005 | 2.7600e-003 | 7.3000e-004 | 1.0000e-005 | 7.4000e-004 | | | | | | 2.1796 |
| Total | 4.2100e-003 | 0.1498 | 0.0634 | 5.6000e-004 | 0.0176 | 7.5000e-004 | 0.0184 | 4.8200e-003 | 7.1000e-004 | 5.5300e-003 | | | | | | 58.5196 |

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 | | | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 1.5900e-003 | 8.0500e-003 | 0.0640 | 1.1000e-004 | | 2.8000e-004 | 2.8000e-004 | | 2.8000e-004 | 2.8000e-004 | | | | | | 8.9578 |
| Total | 1.5900e-003 | 8.0500e-003 | 0.0640 | 1.1000e-004 | 0.0000 | 2.8000e-004 | 2.8000e-004 | 0.0000 | 2.8000e-004 | 2.8000e-004 | | | | | | 8.9578 |

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 |
| Vendor | 3.4700e-003 | 0.1492 | 0.0555 | 5.4000e-004 | 0.0149 | 7.3000e-004 | 0.0156 | 4.0900e-003 | 7.0000e-004 | 4.7900e-003 | | | | | | 56.3400 |
| Worker | 7.4000e-004 | 5.6000e-004 | 7.9600e-003 | 2.0000e-005 | 2.7400e-003 | 2.0000e-005 | 2.7600e-003 | 7.3000e-004 | 1.0000e-005 | 7.4000e-004 | | | | | | 2.1796 |
| Total | 4.2100e-003 | 0.1498 | 0.0634 | 5.6000e-004 | 0.0176 | 7.5000e-004 | 0.0184 | 4.8200e-003 | 7.1000e-004 | 5.5300e-003 | | | | | | 58.5196 |

3.5 Structure/Enclosure - 2024**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1742 | 1.5226 | 1.9896 | 3.1200e-003 | | 0.0737 | 0.0737 | | 0.0695 | 0.0695 | | | | | | 269.5075 |
| Total | 0.1742 | 1.5226 | 1.9896 | 3.1200e-003 | | 0.0737 | 0.0737 | | 0.0695 | 0.0695 | | | | | | 269.5075 |

Unmitigated Construction Off-Site

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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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 6.9500e-003 | 0.2564 | 0.0938 | 1.1600e-003 | 0.0400 | 1.2400e-003 | 0.0413 | 0.0116 | 1.1800e-003 | 0.0127 | | | | | | 118.7037 |
| Worker | 0.2540 | 0.1929 | 2.7279 | 7.9200e-003 | 0.9394 | 5.5500e-003 | 0.9449 | 0.2495 | 5.1000e-003 | 0.2546 | | | | | | 747.3885 |
| Total | 0.2610 | 0.4493 | 2.8216 | 9.0800e-003 | 0.9794 | 6.7900e-003 | 0.9862 | 0.2611 | 6.2800e-003 | 0.2673 | | | | | | 866.0922 |

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 | 0.0625 | 0.3165 | 2.2201 | 3.1200e-003 | | 0.0104 | 0.0104 | | 0.0104 | 0.0104 | | | | | | 269.5071 |
| Total | 0.0625 | 0.3165 | 2.2201 | 3.1200e-003 | | 0.0104 | 0.0104 | | 0.0104 | 0.0104 | | | | | | 269.5071 |

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 |
| Vendor | 6.9500e-003 | 0.2564 | 0.0938 | 1.1600e-003 | 0.0400 | 1.2400e-003 | 0.0413 | 0.0116 | 1.1800e-003 | 0.0127 | | | | | | 118.7037 |
| Worker | 0.2540 | 0.1929 | 2.7279 | 7.9200e-003 | 0.9394 | 5.5500e-003 | 0.9449 | 0.2495 | 5.1000e-003 | 0.2546 | | | | | | 747.3885 |
| Total | 0.2610 | 0.4493 | 2.8216 | 9.0800e-003 | 0.9794 | 6.7900e-003 | 0.9862 | 0.2611 | 6.2800e-003 | 0.2673 | | | | | | 866.0922 |

3.5 Structure/Enclosure - 2025

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 | 0.1358 | 1.1640 | 1.6857 | 2.6600e-003 | | 0.0538 | 0.0538 | | 0.0507 | 0.0507 | | | | | | 229.2679 |
| Total | 0.1358 | 1.1640 | 1.6857 | 2.6600e-003 | | 0.0538 | 0.0538 | | 0.0507 | 0.0507 | | | | | | 229.2679 |

Unmitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------|-----------|-----|-----|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 5.7400e-003 | 0.2170 | 0.0783 | 9.7000e-004 | 0.0340 | 1.0500e-003 | 0.0351 | 9.8200e-003 | 1.0100e-003 | 0.0108 | | | | | | 99.1335 |
| Worker | 0.2023 | 0.1473 | 2.1633 | 6.5100e-003 | 0.7988 | 4.5000e-003 | 0.8033 | 0.2122 | 4.1400e-003 | 0.2163 | | | | | | 619.8557 |
| Total | 0.2080 | 0.3643 | 2.2415 | 7.4800e-003 | 0.8329 | 5.5500e-003 | 0.8384 | 0.2220 | 5.1500e-003 | 0.2271 | | | | | | 718.9892 |

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 | 0.0514 | 0.2650 | 1.8866 | 2.6600e-003 | | 8.1100e-003 | 8.1100e-003 | | 8.1100e-003 | 8.1100e-003 | | | | | | 229.2676 |
| Total | 0.0514 | 0.2650 | 1.8866 | 2.6600e-003 | | 8.1100e-003 | 8.1100e-003 | | 8.1100e-003 | 8.1100e-003 | | | | | | 229.2676 |

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 |
| Vendor | 5.7400e-003 | 0.2170 | 0.0783 | 9.7000e-004 | 0.0340 | 1.0500e-003 | 0.0351 | 9.8200e-003 | 1.0100e-003 | 0.0108 | | | | | | 99.1335 |
| Worker | 0.2023 | 0.1473 | 2.1633 | 6.5100e-003 | 0.7988 | 4.5000e-003 | 0.8033 | 0.2122 | 4.1400e-003 | 0.2163 | | | | | | 619.8557 |
| Total | 0.2080 | 0.3643 | 2.2415 | 7.4800e-003 | 0.8329 | 5.5500e-003 | 0.8384 | 0.2220 | 5.1500e-003 | 0.2271 | | | | | | 718.9892 |

3.6 Architectural Coating/Finishing - 2025

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 | 5.8198 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.1518 | 1.0639 | 1.6490 | 2.6400e-003 | | 0.0492 | 0.0492 | | 0.0485 | 0.0485 | | | | | | 228.1401 |
| Total | 5.9715 | 1.0639 | 1.6490 | 2.6400e-003 | | 0.0492 | 0.0492 | | 0.0485 | 0.0485 | | | | | | 228.1401 |

Unmitigated Construction Off-Site

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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 | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Vendor | 6.2800e-003 | 0.2375 | 0.0857 | 1.0600e-003 | 0.0373 | 1.1500e-003 | 0.0384 | 0.0108 | 1.1000e-003 | 0.0119 | | | | | | 108.4961 |
| Worker | 0.4045 | 0.2946 | 4.3259 | 0.0130 | 1.5975 | 9.0000e-003 | 1.6065 | 0.4243 | 8.2800e-003 | 0.4326 | | | | | | 1,239.5414 |
| Total | 0.4107 | 0.5321 | 4.4116 | 0.0141 | 1.6347 | 0.0102 | 1.6449 | 0.4350 | 9.3800e-003 | 0.4444 | | | | | | 1,348.0375 |

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 | 5.8198 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.0271 | 0.1176 | 1.6728 | 2.6400e-003 | | 3.6200e-003 | 3.6200e-003 | | 3.6200e-003 | 3.6200e-003 | | | | | | 228.1398 |
| Total | 5.8469 | 0.1176 | 1.6728 | 2.6400e-003 | | 3.6200e-003 | 3.6200e-003 | | 3.6200e-003 | 3.6200e-003 | | | | | | 228.1398 |

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 |
| Vendor | 6.2800e-003 | 0.2375 | 0.0857 | 1.0600e-003 | 0.0373 | 1.1500e-003 | 0.0384 | 0.0108 | 1.1000e-003 | 0.0119 | | | | | | 108.4961 |
| Worker | 0.4045 | 0.2946 | 4.3259 | 0.0130 | 1.5975 | 9.0000e-003 | 1.6065 | 0.4243 | 8.2800e-003 | 0.4326 | | | | | | 1,239.5414 |
| Total | 0.4107 | 0.5321 | 4.4116 | 0.0141 | 1.6347 | 0.0102 | 1.6449 | 0.4350 | 9.3800e-003 | 0.4444 | | | | | | 1,348.0375 |

3.6 Architectural Coating/Finishing - 2026**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 | 3.1610 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.0824 | 0.5779 | 0.8956 | 1.4400e-003 | | 0.0267 | 0.0267 | | 0.0264 | 0.0264 | | | | | | 123.9136 |
| Total | 3.2434 | 0.5779 | 0.8956 | 1.4400e-003 | | 0.0267 | 0.0267 | | 0.0264 | 0.0264 | | | | | | 123.9136 |

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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 |
| Vendor | 3.3200e-003 | 0.1281 | 0.0459 | 5.7000e-004 | 0.0202 | 6.3000e-004 | 0.0209 | 5.8400e-003 | 6.0000e-004 | 6.4400e-003 | | | | | | 57.8387 |
| Worker | 0.2069 | 0.1452 | 2.2082 | 6.8600e-003 | 0.8677 | 4.6400e-003 | 0.8723 | 0.2305 | 4.2700e-003 | 0.2347 | | | | | | 657.9480 |
| Total | 0.2103 | 0.2733 | 2.2541 | 7.4300e-003 | 0.8879 | 5.2700e-003 | 0.8932 | 0.2363 | 4.8700e-003 | 0.2412 | | | | | | 715.7867 |

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 | 3.1610 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Off-Road | 0.0147 | 0.0638 | 0.9086 | 1.4400e-003 | | 1.9600e-003 | 1.9600e-003 | | 1.9600e-003 | 1.9600e-003 | | | | | | 123.9135 |
| Total | 3.1757 | 0.0638 | 0.9086 | 1.4400e-003 | | 1.9600e-003 | 1.9600e-003 | | 1.9600e-003 | 1.9600e-003 | | | | | | 123.9135 |

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 |
| Vendor | 3.3200e-003 | 0.1281 | 0.0459 | 5.7000e-004 | 0.0202 | 6.3000e-004 | 0.0209 | 5.8400e-003 | 6.0000e-004 | 6.4400e-003 | | | | | | 57.8387 |
| Worker | 0.2069 | 0.1452 | 2.2082 | 6.8600e-003 | 0.8677 | 4.6400e-003 | 0.8723 | 0.2305 | 4.2700e-003 | 0.2347 | | | | | | 657.9480 |
| Total | 0.2103 | 0.2733 | 2.2541 | 7.4300e-003 | 0.8879 | 5.2700e-003 | 0.8932 | 0.2363 | 4.8700e-003 | 0.2412 | | | | | | 715.7867 |

3.7 Paving/Landscape - 2026Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|---------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 7.5200e-003 | 0.0760 | 0.1021 | 1.5000e-004 | | 3.9800e-003 | 3.9800e-003 | | 3.6600e-003 | 3.6600e-003 | | | | | | 13.2195 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |

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| | | | | | | | | | | | | | | | | |
|-------|-------------|--------|--------|-------------|--|-------------|-------------|--|-------------|-------------|--|--|--|--|--|---------|
| Total | 7.5200e-003 | 0.0760 | 0.1021 | 1.5000e-004 | | 3.9800e-003 | 3.9800e-003 | | 3.6600e-003 | 3.6600e-003 | | | | | | 13.2195 |
|-------|-------------|--------|--------|-------------|--|-------------|-------------|--|-------------|-------------|--|--|--|--|--|---------|

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 |
| Vendor | 1.1000e-004 | 4.1900e-003 | 1.5000e-003 | 2.0000e-005 | 6.6000e-004 | 2.0000e-005 | 6.8000e-004 | 1.9000e-004 | 2.0000e-005 | 2.1000e-004 | | | | | | 1.8919 |
| Worker | 2.7400e-003 | 1.9300e-003 | 0.0293 | 9.0000e-005 | 0.0115 | 6.0000e-005 | 0.0116 | 3.0600e-003 | 6.0000e-005 | 3.1100e-003 | | | | | | 8.7250 |
| Total | 2.8500e-003 | 6.1200e-003 | 0.0308 | 1.1000e-004 | 0.0122 | 8.0000e-005 | 0.0123 | 3.2500e-003 | 8.0000e-005 | 3.3200e-003 | | | | | | 10.6169 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|---------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 2.3700e-003 | 0.0300 | 0.1131 | 1.5000e-004 | | 2.4000e-004 | 2.4000e-004 | | 2.4000e-004 | 2.4000e-004 | | | | | | 13.2194 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Total | 2.3700e-003 | 0.0300 | 0.1131 | 1.5000e-004 | | 2.4000e-004 | 2.4000e-004 | | 2.4000e-004 | 2.4000e-004 | | | | | | 13.2194 |

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 |
| Vendor | 1.1000e-004 | 4.1900e-003 | 1.5000e-003 | 2.0000e-005 | 6.6000e-004 | 2.0000e-005 | 6.8000e-004 | 1.9000e-004 | 2.0000e-005 | 2.1000e-004 | | | | | | 1.8919 |
| Worker | 2.7400e-003 | 1.9300e-003 | 0.0293 | 9.0000e-005 | 0.0115 | 6.0000e-005 | 0.0116 | 3.0600e-003 | 6.0000e-005 | 3.1100e-003 | | | | | | 8.7250 |
| Total | 2.8500e-003 | 6.1200e-003 | 0.0308 | 1.1000e-004 | 0.0122 | 8.0000e-005 | 0.0123 | 3.2500e-003 | 8.0000e-005 | 3.3200e-003 | | | | | | 10.6169 |

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1.0 Project Characteristics**1.1 Land Usage**

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------|----------|-------------------|-------------|--------------------|------------|
| General Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2021 |
| 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 - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Energy Use - See Operational Assumptions

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

| Table Name | Column Name | Default Value | New Value |
|-----------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |

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| | | | |
|----------|--------------------|------|---------------|
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |
|----------|--------------------|------|---------------|

2.0 Emissions Summary

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 | 3.0818 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0594 |
| Energy | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 3,819.4126 |
| Mobile | 1.5776 | 2.0238 | 15.6195 | 0.0307 | 2.9481 | 0.0315 | 2.9796 | 0.7865 | 0.0295 | 0.8160 | | | | | | 2,882.2472 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 413.4705 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 967.6469 |
| Total | 4.6903 | 2.3051 | 15.8844 | 0.0324 | 2.9481 | 0.0530 | 3.0011 | 0.7865 | 0.0509 | 0.8374 | | | | | | 8,082.8367 |

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 | 3.0818 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0594 |
| Energy | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 3,819.4126 |
| Mobile | 1.5776 | 2.0238 | 15.6195 | 0.0307 | 2.9481 | 0.0315 | 2.9796 | 0.7865 | 0.0295 | 0.8160 | | | | | | 2,882.2472 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 97.5791 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 967.6469 |
| Total | 4.6903 | 2.3051 | 15.8844 | 0.0324 | 2.9481 | 0.0530 | 3.0011 | 0.7865 | 0.0509 | 0.8374 | | | | | | 7,766.9452 |

| | 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 | 3.91 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

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

| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
|-------------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|-------|--|--|--|--|------------|
| Mitigated | 1.5776 | 2.0238 | 15.6195 | 0.0307 | 2.9481 | 0.0315 | 2.9796 | 0.7865 | 0.0295 | 0.8160 | | | | | | 2,882.2472 |
| Unmitigated | 1.5776 | 2.0238 | 15.6195 | 0.0307 | 2.9481 | 0.0315 | 2.9796 | 0.7865 | 0.0295 | 0.8160 | | | | | | 2,882.2472 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847.050 | 7,847.050 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847.050 | 7,847.050 |

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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.003425 |
| Industrial Park | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.003425 |
| Parking Lot | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.003425 |
| User Defined Commercial | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.003425 |
| User Defined Industrial | 0.548812 | 0.060892 | 0.186048 | 0.127862 | 0.022726 | 0.005730 | 0.010818 | 0.008022 | 0.000956 | 0.000624 | 0.023397 | 0.000686 | 0.003425 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | 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 | | | | | | 3,511.6457 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 3,511.6457 |
| NaturalGas Mitigated | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |
| NaturalGas Unmitigated | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

TVC Existing Conditions - 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

| | 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 Office Building | 4.01426e+006 | 0.0217 | 0.1968 | 0.1653 | 1.1800e-003 | | 0.0150 | 0.0150 | | 0.0150 | 0.0150 | | | | | | 215.4894 |
| Industrial Park | 1.18852e+006 | 6.4100e-003 | 0.0583 | 0.0489 | 3.5000e-004 | | 4.4300e-003 | 4.4300e-003 | | 4.4300e-003 | 4.4300e-003 | | | | | | 63.8007 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 530484 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9800e-003 | 1.9800e-003 | | 1.9800e-003 | 1.9800e-003 | | | | | | 28.4768 |
| Total | | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |

Mitigated

| | 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 Office Building | 4.01426e+006 | 0.0217 | 0.1968 | 0.1653 | 1.1800e-003 | | 0.0150 | 0.0150 | | 0.0150 | 0.0150 | | | | | | 215.4894 |
| Industrial Park | 1.18852e+006 | 6.4100e-003 | 0.0583 | 0.0489 | 3.5000e-004 | | 4.4300e-003 | 4.4300e-003 | | 4.4300e-003 | 4.4300e-003 | | | | | | 63.8007 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 530484 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9800e-003 | 1.9800e-003 | | 1.9800e-003 | 1.9800e-003 | | | | | | 28.4768 |
| Total | | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |

5.3 Energy by Land Use - Electricity**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------|-----|-----|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 4.9178e+006 | | | | 1,548.0815 |
| Industrial Park | 1.45603e+006 | | | | 458.3461 |
| Parking Lot | 528000 | | | | 166.2100 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 4.25363e+006 | | | | 1,339.0081 |
| Total | | | | | 3,511.6457 |

Mitigated

TVC Existing Conditions - 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

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------|-----|-----|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 4.9178e+06 | | | | 1,548.0815 |
| Industrial Park | 1.45603e+006 | | | | 458.3461 |
| Parking Lot | 528000 | | | | 166.2100 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 4.25363e+006 | | | | 1,339.0081 |
| Total | | | | | 3,511.6457 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 3.0818 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0594 |
| Unmitigated | 3.0818 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0594 |

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 | 0.3530 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 2.7261 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 2.6900e-003 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0594 |
| Total | 3.0818 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0594 |

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 | | | | | |

TVC Existing Conditions - 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

| | | | | | | | | | | | | | | | |
|-----------------------|---------------|--------------------|---------------|---------------|--|--------------------|--------------------|--|--------------------|--------------------|--|--|--|--|---------------|
| Architectural Coating | 0.3530 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | 0.0000 |
| Consumer Products | 2.7261 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | 0.0000 |
| Landscaping | 2.6900e-003 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | 0.0594 |
| Total | 3.0818 | 2.6000e-004 | 0.0288 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | 0.0594 |

7.0 Water Detail

7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| Category | MT/yr | | | |
| Mitigated | | | | 967.6469 |
| Unmitigated | | | | 967.6469 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------|-----|-----|-----------------|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 57.3529 / 35.1518 | | | | 436.0882 |
| Industrial Park | 22.0936 / 0 | | | | 120.6326 |
| Parking Lot | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 75.2603 / 0 | | | | 410.9262 |
| Total | | | | | 967.6469 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------|-----|-----|----------|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 57.3529 / 35.1518 | | | | 436.0882 |
| Industrial Park | 22.0936 / 0 | | | | 120.6326 |
| Parking Lot | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |

TVC Existing Conditions - 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

| | | | | | |
|----------------------------|-------------|--|--|--|-----------------|
| User Defined Industrial | 75.2603 / 0 | | | | 410.9262 |
| Total | | | | | 967.6469 |

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| | MT/yr | | | |
| Mitigated | | | | 97.5791 |
| Unmitigated | | | | 413.4705 |

8.2 Waste by Land Use**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-------------------|-----------|-----|-----|-----------------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 300.1 | | | | 150.9208 |
| Industrial Park | 118.47 | | | | 59.5787 |
| Parking Lot | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 403.6 | | | | 202.9711 |
| Total | | | | | 413.4705 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-------------------|-----------|-----|-----|---------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 70.8236 | | | | 35.6173 |
| Industrial Park | 27.9589 | | | | 14.0606 |
| Parking Lot | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 95.2496 | | | | 47.9012 |

TVC Existing Conditions - 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

| | | | | | |
|-------|--|--|--|--|---------|
| Total | | | | | 97.5791 |
|-------|--|--|--|--|---------|

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Existing Conditions (Buildout Year 2026) - 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

TVC Existing Conditions (Buildout Year 2026)
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 Office Building | 322.69 | 1000sqft | 7.41 | 322,690.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 95.54 | 1000sqft | 2.19 | 95,540.00 | 0 |
| User Defined Industrial | 325.45 | User Defined Unit | 0.00 | 325,450.00 | 0 |
| Parking Lot | 1,500.00 | Space | 13.50 | 600,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|---|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 585 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2026 LADWP Consistency with SB 100

Land Use - Commercial User Defined is for LADOT VMT Results; Industrial User Defined is Production Support

Construction Phase -

Vehicle Trips - LADOT VMT Calculator Consistency

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - See Operational Assumptions

Water And Wastewater - See Operational Assumptions

Solid Waste - See Operational Assumptions

Water Mitigation -

Waste Mitigation - Consistent with the current Citywide diversion rate of 76.4 percent.

Fleet Mix -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------------|---------------|------------|
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 325,450.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 403.60 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 1,128.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |

TVC Existing Conditions (Buildout Year 2026) - 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

| | | | |
|-----------------|--------------------|------|---------------|
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 376.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 3,891.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 75,260,313.00 |

2.0 Emissions Summary

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 | 3.0817 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |
| Energy | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 3,278.0906 |
| Mobile | 1.2976 | 1.3450 | 12.3960 | 0.0264 | 2.9486 | 0.0194 | 2.9680 | 0.7867 | 0.0180 | 0.8047 | | | | | | 2,477.5126 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 413.4705 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 850.9448 |
| Total | 4.4102 | 1.6263 | 12.6606 | 0.0281 | 2.9486 | 0.0408 | 2.9894 | 0.7867 | 0.0394 | 0.8262 | | | | | | 7,020.0779 |

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 | 3.0817 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |
| Energy | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 3,278.0906 |
| Mobile | 1.2976 | 1.3450 | 12.3960 | 0.0264 | 2.9486 | 0.0194 | 2.9680 | 0.7867 | 0.0180 | 0.8047 | | | | | | 2,477.5126 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 97.5791 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 850.9448 |
| Total | 4.4102 | 1.6263 | 12.6606 | 0.0281 | 2.9486 | 0.0408 | 2.9894 | 0.7867 | 0.0394 | 0.8262 | | | | | | 6,704.1864 |

| | 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 | 4.50 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

TVC Existing Conditions (Buildout Year 2026) - 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

| | 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 | 1.2976 | 1.3450 | 12.3960 | 0.0264 | 2.9486 | 0.0194 | 2.9680 | 0.7867 | 0.0180 | 0.8047 | | | | | | 2,477.5126 |
| Unmitigated | 1.2976 | 1.3450 | 12.3960 | 0.0264 | 2.9486 | 0.0194 | 2.9680 | 0.7867 | 0.0180 | 0.8047 | | | | | | 2,477.5126 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------|-------------------------|----------|--------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 3,891.00 | 1,128.00 | 376.00 | 7,847,050 | 7,847,050 |

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 Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Parking Lot | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | 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 | | | | | | 2,970.3237 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 2,970.3237 |
| Natural Gas Mitigated | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |

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

| | | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--|--|--|--|--|----------|
| NaturalGas Unmitigated | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |
|---------------------------|--------|--------|--------|-------------|--|--------|--------|--|--------|--------|--|--|--|--|--|----------|

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------------|---------------|---------------|---------------|--------------------|------------------|-----------------|---------------|-------------------|------------------|---------------|----------|-----------|-----------|-----|-----|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Office Building | 4.01426e+006 | 0.0217 | 0.1968 | 0.1653 | 1.1800e-003 | | 0.0150 | 0.0150 | | 0.0150 | 0.0150 | | | | | | 215.4894 |
| Industrial Park | 1.18852e+006 | 6.4100e-003 | 0.0583 | 0.0489 | 3.5000e-004 | | 4.4300e-003 | 4.4300e-003 | | 4.4300e-003 | 4.4300e-003 | | | | | | 63.8007 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 530484 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9800e-003 | 1.9800e-003 | | 1.9800e-003 | 1.9800e-003 | | | | | | 28.4768 |
| Total | | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |

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 Office Building | 4.01426e+006 | 0.0217 | 0.1968 | 0.1653 | 1.1800e-003 | | 0.0150 | 0.0150 | | 0.0150 | 0.0150 | | | | | | 215.4894 |
| Industrial Park | 1.18852e+006 | 6.4100e-003 | 0.0583 | 0.0489 | 3.5000e-004 | | 4.4300e-003 | 4.4300e-003 | | 4.4300e-003 | 4.4300e-003 | | | | | | 63.8007 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 530484 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9800e-003 | 1.9800e-003 | | 1.9800e-003 | 1.9800e-003 | | | | | | 28.4768 |
| Total | | 0.0309 | 0.2810 | 0.2361 | 1.6900e-003 | | 0.0214 | 0.0214 | | 0.0214 | 0.0214 | | | | | | 307.7669 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------|-----|-----|------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 4.9178e+006 | | | | 1,309.4439 |
| Industrial Park | 1.45603e+006 | | | | 387.6918 |
| Parking Lot | 528000 | | | | 140.5887 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 4.25363e+006 | | | | 1,132.5993 |

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| | | |
|-------|--|------------|
| Total | | 2,970.3237 |
|-------|--|------------|

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-----------------|-----------|-----|-----|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Office Building | 4.9178e+006 | | | | 1,309.4439 |
| Industrial Park | 1.45603e+006 | | | | 387.6918 |
| Parking Lot | 528000 | | | | 140.5887 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 4.25363e+006 | | | | 1,132.5993 |
| Total | | | | | 2,970.3237 |

6.0 Area Detail**6.1 Mitigation Measures Area**

| | 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 | 3.0817 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |
| Unmitigated | 3.0817 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |

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 | 0.3530 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 2.7261 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 2.6300e-003 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |
| Total | 3.0817 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |

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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 | 0.3530 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 2.7261 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 2.6300e-003 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |
| Total | 3.0817 | 2.6000e-004 | 0.0286 | 0.0000 | | 1.0000e-004 | 1.0000e-004 | | 1.0000e-004 | 1.0000e-004 | | | | | | 0.0593 |

7.0 Water Detail**7.1 Mitigation Measures Water**

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| Category | MT/yr | | | |
| Mitigated | | | | 850.9448 |
| Unmitigated | | | | 850.9448 |

7.2 Water by Land Use**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|--------------------|-----------|-----|-----|-----------------|
| Land Use | Mgal | MT/yr | | | |
| General Office Building | 57.3529 / 35.1518 | | | | 380.8989 |
| Industrial Park | 22.0936 / 0 | | | | 106.6728 |
| Parking Lot | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 75.2603 / 0 | | | | 363.3731 |
| Total | | | | | 850.9448 |

Mitigated

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

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| | | | | | |
|-------------------------|-------------------|--|--|--|-----------------|
| General Office Building | 57.3529 / 35.1518 | | | | 380.8989 |
| Industrial Park | 22.0936 / 0 | | | | 106.6728 |
| Parking Lot | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 75.2603 / 0 | | | | 363.3731 |
| Total | | | | | 850.9448 |

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| | MT/yr | | | |
| Mitigated | | | | 97.5791 |
| Unmitigated | | | | 413.4705 |

8.2 Waste by Land Use**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------|-----|-----|-----------------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 300.1 | | | | 150.9208 |
| Industrial Park | 118.47 | | | | 59.5787 |
| Parking Lot | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 403.6 | | | | 202.9711 |
| Total | | | | | 413.4705 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|----------------|-----------|-----|-----|---------|
| Land Use | tons | MT/yr | | | |
| General Office Building | 70.8236 | | | | 35.6173 |

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

| | | | | | |
|-------------------------|---------|--|--|--|----------------|
| Industrial Park | 27.9589 | | | | 14.0606 |
| Parking Lot | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 95.2496 | | | | 47.9012 |
| Total | | | | | 97.5791 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Operations - Total Permitted Land Uses
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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 585 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculations and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 104,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |

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| | | | |
|-----------------|--------------------------|--------|---------------|
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 129.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.02 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,290.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,098.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 11,346.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 24,050,000.00 |

2.0 Emissions Summary

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 | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Energy | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 8,437.6217 |
| Mobile | 3.7385 | 3.8504 | 35.6123 | 0.0750 | 8.3834 | 0.0556 | 8.4390 | 2.2368 | 0.0516 | 2.2884 | | | | | | 7,272.2039 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 975.7547 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 2,174.4368 |
| Total | 11.6583 | 4.8016 | 36.5020 | 0.0807 | 8.3834 | 0.1281 | 8.5115 | 2.2368 | 0.1241 | 2.3609 | | | | | | 18,860.2067 |

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 | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Energy | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 7,787.1135 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Mobile | 3.7385 | 3.8504 | 35.6123 | 0.0750 | 8.3834 | 0.0556 | 8.4390 | 2.2368 | 0.0516 | 2.2884 | | | | | | 7,272.2039 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 230.2781 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 1,739.5495 |
| Total | 11.6583 | 4.8016 | 36.5020 | 0.0807 | 8.3834 | 0.1281 | 8.5115 | 2.2368 | 0.1241 | 2.3609 | | | | | | 17,029.3346 |

| | 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 | 9.71 |

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 | 3.7385 | 3.8504 | 35.6123 | 0.0750 | 8.3834 | 0.0556 | 8.4390 | 2.2368 | 0.0516 | 2.2884 | | | | | | 7,272.2039 |
| Unmitigated | 3.7385 | 3.8504 | 35.6123 | 0.0750 | 8.3834 | 0.0556 | 8.4390 | 2.2368 | 0.0516 | 2.2884 | | | | | | 7,272.2039 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 11,346.00 | 3,290.00 | 1,098.00 | 22,310,515 | 22,310,515 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.02 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| General Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| High Turnover (Sit Down Restaurant) | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Strip Mall | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Unenclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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 | | | | | | 6,746.3413 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 7,396.8495 |
| NaturalGas Mitigated | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 1,040.7722 |
| NaturalGas Unmitigated | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 1,040.7722 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 1.4434e+007 | 0.0778 | 0.7076 | 0.5943 | 4.2500e-003 | | 0.0538 | 0.0538 | | 0.0538 | 0.0538 | | | | | | 774.8304 |
| High Turnover (Sit Down Restaurant) | 1.15165e+006 | 6.2100e-003 | 0.0565 | 0.0474 | 3.4000e-004 | | 4.2900e-003 | 4.2900e-003 | | 4.2900e-003 | 4.2900e-003 | | | | | | 61.8216 |
| Industrial Park | 3.6085e+006 | 0.0195 | 0.1769 | 0.1486 | 1.0600e-003 | | 0.0134 | 0.0134 | | 0.0134 | 0.0134 | | | | | | 193.7076 |
| Strip Mall | 24450 | 1.3000e-004 | 1.2000e-003 | 1.0100e-003 | 1.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | | | | | 1.3125 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 169520 | 9.1000e-004 | 8.3100e-003 | 6.9800e-003 | 5.0000e-005 | | 6.3000e-004 | 6.3000e-004 | | 6.3000e-004 | 6.3000e-004 | | | | | | 9.1000 |
| Total | | 0.1045 | 0.9504 | 0.7983 | 5.7100e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 1,040.7722 |

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 |
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|----------------|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

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| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | |
|-------------------------------------|--------------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|-------|--|--|--|-------------------|
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | 0.0000 |
| General Office Building | 1.4434e+07 | 0.0778 | 0.7076 | 0.5943 | 4.2500e-003 | | 0.0538 | 0.0538 | | 0.0538 | 0.0538 | | | | | 774.8304 |
| High Turnover (Sit Down Restaurant) | 1.15165e+006 | 6.2100e-003 | 0.0565 | 0.0474 | 3.4000e-004 | | 4.2900e-003 | 4.2900e-003 | | 4.2900e-003 | 4.2900e-003 | | | | | 61.8216 |
| Industrial Park | 3.6085e+006 | 0.0195 | 0.1769 | 0.1486 | 1.0600e-003 | | 0.0134 | 0.0134 | | 0.0134 | 0.0134 | | | | | 193.7076 |
| Strip Mall | 24450 | 1.3000e-004 | 1.2000e-003 | 1.0100e-003 | 1.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | | | | 1.3125 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | 0.0000 |
| User Defined Industrial | 169520 | 9.1000e-004 | 8.3100e-003 | 6.9800e-003 | 5.0000e-005 | | 6.3000e-004 | 6.3000e-004 | | 6.3000e-004 | 6.3000e-004 | | | | | 9.1000 |
| Total | | 0.1045 | 0.9504 | 0.7983 | 5.7100e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | 1,040.7722 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------|-----|-----|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 2.444e+006 | | | | 650.7552 |
| General Office Building | 1.75e+007 | | | | 4,659.6626 |
| High Turnover (Sit Down Restaurant) | 216350 | | | | 57.6067 |
| Industrial Park | 3.969e+006 | | | | 1,056.8115 |
| Strip Mall | 196050 | | | | 52.2015 |
| Unenclosed Parking with Elevator | 2.0952e+006 | | | | 557.8814 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 1.35928e+006 | | | | 361.9306 |
| Total | | | | | 7,396.8495 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------|-----|-----|------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 1.989e+006 | | | | 529.6039 |
| General Office Building | 1.61805e+007 | | | | 4,308.3240 |
| High Turnover (Sit Down Restaurant) | 206512 | | | | 54.9874 |
| Industrial Park | 3.969e+006 | | | | 1,056.8115 |
| Strip Mall | 172575 | | | | 45.9509 |
| Unenclosed Parking with Elevator | 1.6227e+006 | | | | 432.0705 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | |
|-------------------------|--------------|-------------------|
| User Defined Commercial | 0 | 0.0000 |
| User Defined Industrial | 1.19652e+006 | 318.5931 |
| Total | | 6,746.3413 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | 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 | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Unmitigated | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

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 | 0.8981 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 6.9087 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 8.4100e-003 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Total | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

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 | 0.8981 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 6.9087 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 8.4100e-003 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Total | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

7.0 Water Detail

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|------------|
| Category | MT/yr | | | |
| Mitigated | | | | 1,739.5495 |
| Unmitigated | | | | 2,174.4368 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|-----------|-----|-----|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| General Office Building | 248.827 / 152.507 | | | | 1,652.5412 |
| High Turnover (Sit Down Restaurant) | 1.51767 / 0.0968725 | | | | 7.6142 |
| Industrial Park | 80.9375 / 0 | | | | 390.7838 |
| Strip Mall | 1.11109 / 0.680989 | | | | 7.3791 |
| Unenclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 24.05 / 0 | | | | 116.1186 |
| Total | | | | | 2,174.4368 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-----------|-----|-----|------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| General Office Building | 199.062 / 122.006 | | | | 1,322.0329 |
| High Turnover (Sit Down Restaurant) | 1.21413 / 0.077498 | | | | 6.0914 |
| Industrial Park | 64.75 / 0 | | | | 312.6270 |
| Strip Mall | 0.88887 / 0.544791 | | | | 5.9033 |
| Unenclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |

TVC Operations - Total Permitted Land Uses - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|----------------------------|-----------|--|--|--|-------------------|
| User Defined Industrial | 19.24 / 0 | | | | 92.8949 |
| Total | | | | | 1,739.5495 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| | MT/yr | | | |
| Mitigated | | | | 230.2781 |
| Unmitigated | | | | 975.7547 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--|-------------------|-----------|-----|-----|-----------------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |
| General Office Building | 1302 | | | | 654.7778 |
| High Turnover (Sit Down Restaurant) | 59.5 | | | | 29.9226 |
| Industrial Park | 434 | | | | 218.2593 |
| Strip Mall | 15.75 | | | | 7.9207 |
| Unenclosed Parking with Elevator | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 129 | | | | 64.8743 |
| Total | | | | | 975.7547 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-----------------------------------|-------------------|-----------|-----|-----|----------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |
| General Office Building | 307.272 | | | | 154.5276 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-------------------------------------|---------|--|--|--|-----------------|
| High Turnover (Sit Down Restaurant) | 14.042 | | | | 7.0617 |
| Industrial Park | 102.424 | | | | 51.5092 |
| Strip Mall | 3.717 | | | | 1.8693 |
| Unenclosed Parking with | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 30.444 | | | | 15.3103 |
| Total | | | | | 230.2781 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Operations - Total Permitted Land Uses (No MXD or PDFs) - Los Angeles-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Operations - Total Permitted Land Uses (No MXD or PDFs)
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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 350.00 | 1000sqft | 8.03 | 350,000.00 | 0 |
| User Defined Industrial | 104.00 | User Defined Unit | 0.00 | 104,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|---|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MWhr) | 585 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

Commercial User Defined is included as a placeholder for input of LADOT VMT Calculations and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|------------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 104,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|-----------------|--------------------------|--------|---------------|
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 129.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.20 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 5,147.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,717.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 17,752.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 24,050,000.00 |

2.0 Emissions Summary

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 | | | | | | | | | | | MT/yr | | | | | |
| Area | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Energy | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 8,437.6217 |
| Mobile | 5.9254 | 6.1418 | 56.8398 | 0.1203 | 13.4528 | 0.0889 | 13.5417 | 3.5893 | 0.0826 | 3.6719 | | | | | | 11,660.6155 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 975.7547 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 2,174.4368 |
| Total | 13.8452 | 7.0931 | 57.7295 | 0.1260 | 13.4528 | 0.1615 | 13.6143 | 3.5893 | 0.1551 | 3.7444 | | | | | | 23,248.6184 |

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 | | | | | | | | | | | MT/yr | | | | | |
| Area | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Energy | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 7,787.1135 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Mobile | 5.9254 | 6.1418 | 56.8398 | 0.1203 | 13.4528 | 0.0889 | 13.5417 | 3.5893 | 0.0826 | 3.6719 | | | | | | 11,660.6155 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 230.2781 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 1,739.5495 |
| Total | 13.8452 | 7.0931 | 57.7295 | 0.1260 | 13.4528 | 0.1615 | 13.6143 | 3.5893 | 0.1551 | 3.7444 | | | | | | 21,417.7462 |

| | 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 | 7.88 |

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 | 5.9254 | 6.1418 | 56.8398 | 0.1203 | 13.4528 | 0.0889 | 13.5417 | 3.5893 | 0.0826 | 3.6719 | | | | | | 11,660.6155 |
| Unmitigated | 5.9254 | 6.1418 | 56.8398 | 0.1203 | 13.4528 | 0.0889 | 13.5417 | 3.5893 | 0.0826 | 3.6719 | | | | | | 11,660.6155 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | | Mitigated | |
|-------------------------------------|-------------------------|-----------------|-----------------|-------------------|--|-------------------|--|
| | Weekday | Saturday | Sunday | Annual VMT | | Annual VMT | |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | | | |
| User Defined Commercial | 17,752.00 | 5,147.00 | 1,717.00 | 35,801,626 | | 35,801,626 | |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | | | |
| Total | 17,752.00 | 5,147.00 | 1,717.00 | 35,801,626 | | 35,801,626 | |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.20 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| General Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| High Turnover (Sit Down Restaurant) | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

TVC Operations - Total Permitted Land Uses (No MXD or PDFs) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Strip Mall | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Unenclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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 | | | | | | 6,746.3413 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 7,396.8495 |
| NaturalGas Mitigated | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 1,040.7722 |
| NaturalGas Unmitigated | 0.1045 | 0.9504 | 0.7983 | 5.7000e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 1,040.7722 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------|-----|-----|-------------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 1.4434e+007 | 0.0778 | 0.7076 | 0.5943 | 4.2500e-003 | | 0.0538 | 0.0538 | | 0.0538 | 0.0538 | | | | | | 774.8304 |
| High Turnover (Sit Down Restaurant) | 1.15165e+006 | 6.2100e-003 | 0.0565 | 0.0474 | 3.4000e-004 | | 4.2900e-003 | 4.2900e-003 | | 4.2900e-003 | 4.2900e-003 | | | | | | 61.8216 |
| Industrial Park | 3.6085e+006 | 0.0195 | 0.1769 | 0.1486 | 1.0600e-003 | | 0.0134 | 0.0134 | | 0.0134 | 0.0134 | | | | | | 193.7076 |
| Strip Mall | 24450 | 1.3000e-004 | 1.2000e-003 | 1.0100e-003 | 1.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | | | | | 1.3125 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 169520 | 9.1000e-004 | 8.3100e-003 | 6.9800e-003 | 5.0000e-005 | | 6.3000e-004 | 6.3000e-004 | | 6.3000e-004 | 6.3000e-004 | | | | | | 9.1000 |
| Total | | 0.1045 | 0.9504 | 0.7983 | 5.7100e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 1,040.7722 |

Mitigated

TVC Operations - Total Permitted Land Uses (No MXD or PDFs) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | 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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 1.4434e+07 | 0.0778 | 0.7076 | 0.5943 | 4.2500e-003 | | 0.0538 | 0.0538 | | 0.0538 | 0.0538 | | | | | | 774.8304 |
| High Turnover (Sit Down Restaurant) | 1.15165e+006 | 6.2100e-003 | 0.0565 | 0.0474 | 3.4000e-004 | | 4.2900e-003 | 4.2900e-003 | | 4.2900e-003 | 4.2900e-003 | | | | | | 61.8216 |
| Industrial Park | 3.6085e+006 | 0.0195 | 0.1769 | 0.1486 | 1.0600e-003 | | 0.0134 | 0.0134 | | 0.0134 | 0.0134 | | | | | | 193.7076 |
| Strip Mall | 24450 | 1.3000e-004 | 1.2000e-003 | 1.0100e-003 | 1.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | | | | | 1.3125 |
| Unenclosed Parking with | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 169520 | 9.1000e-004 | 8.3100e-003 | 6.9800e-003 | 5.0000e-005 | | 6.3000e-004 | 6.3000e-004 | | 6.3000e-004 | 6.3000e-004 | | | | | | 9.1000 |
| Total | | 0.1045 | 0.9504 | 0.7983 | 5.7100e-003 | | 0.0722 | 0.0722 | | 0.0722 | 0.0722 | | | | | | 1,040.7722 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------|-----|-----|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 2.444e+006 | | | | 650.7552 |
| General Office Building | 1.75e+007 | | | | 4,659.6626 |
| High Turnover (Sit Down Restaurant) | 216350 | | | | 57.6067 |
| Industrial Park | 3.969e+006 | | | | 1,056.8115 |
| Strip Mall | 196050 | | | | 52.2015 |
| Unenclosed Parking with | 2.0952e+006 | | | | 557.8814 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 1.35928e+006 | | | | 361.9306 |
| Total | | | | | 7,396.8495 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------|-----|-----|------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 1.989e+006 | | | | 529.6039 |
| General Office Building | 1.61805e+007 | | | | 4,308.3240 |
| High Turnover (Sit Down Restaurant) | 206512 | | | | 54.9874 |
| Industrial Park | 3.969e+006 | | | | 1,056.8115 |
| Strip Mall | 172575 | | | | 45.9509 |

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| | | |
|-------------------------|--------------|-------------------|
| Unenclosed Parking with | 1.6227e+006 | 432.0705 |
| User Defined Commercial | 0 | 0.0000 |
| User Defined Industrial | 1.19652e+006 | 318.5931 |
| Total | | 6,746.3413 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | 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 | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Unmitigated | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

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 | 0.8981 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 6.9087 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 8.4100e-003 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Total | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

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 | 0.8981 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 6.9087 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 8.4100e-003 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Total | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

TVC Operations - Total Permitted Land Uses (No MXD or PDFs) - Los Angeles-South Coast County, Annual
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|------------|
| Category | MT/yr | | | |
| Mitigated | | | | 1,739.5495 |
| Unmitigated | | | | 2,174.4368 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|-----------|-----|-----|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| General Office Building | 248.827 / 152.507 | | | | 1,652.5412 |
| High Turnover (Sit Down Restaurant) | 1.51767 / 0.0968725 | | | | 7.6142 |
| Industrial Park | 80.9375 / 0 | | | | 390.7838 |
| Strip Mall | 1.11109 / 0.680989 | | | | 7.3791 |
| Unenclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 24.05 / 0 | | | | 116.1186 |
| Total | | | | | 2,174.4368 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-----------|-----|-----|------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| General Office Building | 199.062 / 122.006 | | | | 1,322.0329 |
| High Turnover (Sit Down Restaurant) | 1.21413 / 0.077498 | | | | 6.0914 |
| Industrial Park | 64.75 / 0 | | | | 312.6270 |
| Strip Mall | 0.88887 / 0.544791 | | | | 5.9033 |
| Unenclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |

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| | | | | | |
|-------------------------|-----------|--|--|--|-------------------|
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 19.24 / 0 | | | | 92.8949 |
| Total | | | | | 1,739.5495 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| | MT/yr | | | |
| Mitigated | | | | 230.2781 |
| Unmitigated | | | | 975.7547 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-----------|-----|-----|-----------------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |
| General Office Building | 1302 | | | | 654.7778 |
| High Turnover (Sit Down Restaurant) | 59.5 | | | | 29.9226 |
| Industrial Park | 434 | | | | 218.2593 |
| Strip Mall | 15.75 | | | | 7.9207 |
| Unenclosed Parking with Elevator | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 129 | | | | 64.8743 |
| Total | | | | | 975.7547 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|----------------|-----------|-----|-----|--------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |

TVC Operations - Total Permitted Land Uses (No MXD or PDFs) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|--|---------|--|--|--|-----------------|
| General Office Building | 307.272 | | | | 154.5276 |
| High Turnover (Sit Down Restaurant) | 14.042 | | | | 7.0617 |
| Industrial Park | 102.424 | | | | 51.5092 |
| Strip Mall | 3.717 | | | | 1.8693 |
| Unenclosed Parking with Enclosure | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 30.444 | | | | 15.3103 |
| Total | | | | | 230.2781 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM)

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 Office Building | 1,400.00 | 1000sqft | 32.14 | 1,400,000.00 | 0 |
| User Defined Commercial | 1.00 | User Defined Unit | 0.00 | 0.00 | 0 |
| Industrial Park | 450.00 | 1000sqft | 10.33 | 450,000.00 | 0 |
| User Defined Industrial | 4.00 | User Defined Unit | 0.00 | 4,000.00 | 0 |
| Enclosed Parking with Elevator | 2,600.00 | Space | 23.40 | 1,040,000.00 | 0 |
| Unenclosed Parking with Elevator | 2,700.00 | Space | 24.30 | 1,080,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Strip Mall | 15.00 | 1000sqft | 0.34 | 15,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------|---|--------------------------|-------|---------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 33 |
| Climate Zone | 11 | | | Operational Year | 2026 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 585 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - LADWP CO2 Intensity Factor for Year 2026 consistent with SB100 RPS for LADWP.

Land Use - Industrial User Defined is included to represent Production Support.

General User Defined is included as a placeholder for input of LADOT VMT Calculations and VMT for the Project Construction Phase -

Vehicle Trips - Consistency with LADOT VMT Calculator

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use - Section 120.6(c) CBC, Mandatory Requirements for Enclosed Parking Garages; MBS (2017-2018 average demand) for Stages and Retail for Production

Water And Wastewater - User Defined Industrial (Production Support) water usage consistent with Retail.

Solid Waste - User Defined Industrial (Production Support) solid waste generation consistent with Retail.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|---------------------------|--------------------|---------------|-----------|
| tblEnergyUse | LightingElect | 3.77 | 0.00 |
| tblEnergyUse | LightingElect | 0.00 | 6.26 |
| tblEnergyUse | NT24E | 4.62 | 0.00 |
| tblEnergyUse | NT24E | 0.00 | 3.23 |
| tblEnergyUse | NT24NG | 0.00 | 0.49 |
| tblEnergyUse | T24E | 3.50 | 0.41 |
| tblEnergyUse | T24E | 4.11 | 11.34 |
| tblEnergyUse | T24E | 0.00 | 3.58 |
| tblEnergyUse | T24NG | 0.00 | 1.14 |
| tblLandUse | LandUseSquareFeet | 0.00 | 4,000.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 691.98 | 585 |

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| | | | |
|-----------------|--------------------------|--------|------------|
| tblSolidWaste | SolidWasteGenerationRate | 0.00 | 5.00 |
| tblVehicleTrips | CC_TL | 8.40 | 7.13 |
| tblVehicleTrips | CC_TTP | 0.00 | 100.00 |
| tblVehicleTrips | CNW_TL | 6.90 | 0.00 |
| tblVehicleTrips | CW_TL | 16.60 | 0.00 |
| tblVehicleTrips | PR_TP | 0.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.21 | 0.00 |
| tblVehicleTrips | ST_TR | 122.40 | 0.00 |
| tblVehicleTrips | ST_TR | 2.54 | 0.00 |
| tblVehicleTrips | ST_TR | 42.04 | 0.00 |
| tblVehicleTrips | ST_TR | 0.00 | 3,641.00 |
| tblVehicleTrips | SU_TR | 0.70 | 0.00 |
| tblVehicleTrips | SU_TR | 142.64 | 0.00 |
| tblVehicleTrips | SU_TR | 1.24 | 0.00 |
| tblVehicleTrips | SU_TR | 20.43 | 0.00 |
| tblVehicleTrips | SU_TR | 0.00 | 1,215.00 |
| tblVehicleTrips | WD_TR | 9.74 | 0.00 |
| tblVehicleTrips | WD_TR | 112.18 | 0.00 |
| tblVehicleTrips | WD_TR | 3.37 | 0.00 |
| tblVehicleTrips | WD_TR | 44.32 | 0.00 |
| tblVehicleTrips | WD_TR | 0.00 | 12,555.00 |
| tblWater | IndoorWaterUseRate | 0.00 | 925,000.00 |

2.0 Emissions Summary

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 | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Energy | 0.1092 | 0.9930 | 0.8341 | 5.9600e-003 | | 0.0755 | 0.0755 | | 0.0755 | 0.0755 | | | | | | 8,438.1527 |
| Mobile | 4.1698 | 4.3115 | 39.8921 | 0.0843 | 9.4221 | 0.0623 | 9.4845 | 2.5139 | 0.0579 | 2.5718 | | | | | | 8,169.3359 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 975.7547 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 2,174.4368 |
| Total | 12.0943 | 5.3053 | 40.8175 | 0.0902 | 9.4221 | 0.1381 | 9.5603 | 2.5139 | 0.1337 | 2.6476 | | | | | | 19,757.8697 |

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 | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Energy | 0.1092 | 0.9930 | 0.8341 | 5.9600e-003 | | 0.0755 | 0.0755 | | 0.0755 | 0.0755 | | | | | | 7,829.3152 |
| Mobile | 4.1698 | 4.3115 | 39.8921 | 0.0843 | 9.4221 | 0.0623 | 9.4845 | 2.5139 | 0.0579 | 2.5718 | | | | | | 8,169.3359 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | | | | | | | | | | |
|--------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|--------------------|
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 230.2781 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 1,739.5495 |
| Total | 12.0943 | 5.3053 | 40.8175 | 0.0902 | 9.4221 | 0.1381 | 9.5603 | 2.5139 | 0.1337 | 2.6476 | | | | | | 17,968.6683 |

| | 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 | 9.06 |

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 | 4.1698 | 4.3115 | 39.8921 | 0.0843 | 9.4221 | 0.0623 | 9.4845 | 2.5139 | 0.0579 | 2.5718 | | | | | | 8,169.3359 |
| Unmitigated | 4.1698 | 4.3115 | 39.8921 | 0.0843 | 9.4221 | 0.0623 | 9.4845 | 2.5139 | 0.0579 | 2.5718 | | | | | | 8,169.3359 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------------|----------------------|
| | Weekday | Saturday | Sunday | | |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| General Office Building | 0.00 | 0.00 | 0.00 | | |
| High Turnover (Sit Down Restaurant) | 0.00 | 0.00 | 0.00 | | |
| Industrial Park | 0.00 | 0.00 | 0.00 | | |
| Strip Mall | 0.00 | 0.00 | 0.00 | | |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| User Defined Commercial | 12,555.00 | 3,641.00 | 1,215.00 | 25,074.870 | 25,074.870 |
| User Defined Industrial | 0.00 | 0.00 | 0.00 | | |
| Total | 12,555.00 | 3,641.00 | 1,215.00 | 25,074.870 | 25,074.870 |

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 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down Restaurant) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Industrial Park | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 79 | 19 | 2 |
| Strip Mall | 16.60 | 8.40 | 6.90 | 16.60 | 64.40 | 19.00 | 45 | 40 | 15 |
| Unenclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| User Defined Commercial | 0.00 | 7.13 | 0.00 | 0.00 | 100.00 | 0.00 | 100 | 0 | 0 |
| User Defined Industrial | 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 |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Enclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| General Office Building | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| High Turnover (Sit Down Restaurant) | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Industrial Park | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| Strip Mall | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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| | | | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Unenclosed Parking with Elevator | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Commercial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |
| User Defined Industrial | 0.537891 | 0.065289 | 0.189998 | 0.126515 | 0.023567 | 0.006518 | 0.011114 | 0.008084 | 0.000933 | 0.000591 | 0.025474 | 0.000708 | 0.003318 |

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 | | | | | | 6,741.9479 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 7,350.7854 |
| Natural Gas Mitigated | 0.1092 | 0.9930 | 0.8341 | 5.9600e-003 | | 0.0755 | 0.0755 | | 0.0755 | 0.0755 | | | | | | 1,087.3672 |
| Natural Gas Unmitigated | 0.1092 | 0.9930 | 0.8341 | 5.9600e-003 | | 0.0755 | 0.0755 | | 0.0755 | 0.0755 | | | | | | 1,087.3672 |

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 | | | | | |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| General Office Building | 1.4434e+007 | 0.0778 | 0.7076 | 0.5943 | 4.2500e-003 | | 0.0538 | 0.0538 | | 0.0538 | 0.0538 | | | | | | 774.8304 |
| High Turnover (Sit Down Restaurant) | 1.15165e+006 | 6.2100e-003 | 0.0565 | 0.0474 | 3.4000e-004 | | 4.2900e-003 | 4.2900e-003 | | 4.2900e-003 | 4.2900e-003 | | | | | | 61.8216 |
| Industrial Park | 4.6389e+006 | 0.0250 | 0.2274 | 0.1910 | 1.3600e-003 | | 0.0173 | 0.0173 | | 0.0173 | 0.0173 | | | | | | 249.0526 |
| Strip Mall | 24450 | 1.3000e-004 | 1.2000e-003 | 1.0100e-003 | 1.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | | | | | 1.3125 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Commercial | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| User Defined Industrial | 6520 | 4.0000e-005 | 3.2000e-004 | 2.7000e-004 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | | | | | 0.3500 |
| Total | | 0.1092 | 0.9930 | 0.8341 | 5.9600e-003 | | 0.0755 | 0.0755 | | 0.0755 | 0.0755 | | | | | | 1,087.3672 |

Mitigated

| | 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 | | | | | |

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| | | | | | | | | | | | | | | | |
|-------------------------------------|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| Enclosed Parking with Elevator | 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 |
| General Office Building | 1.4434e+007 | 0.0778 | 0.7076 | 0.5943 | 4.2500e-003 | 0.0538 | 0.0538 | 0.0538 | 0.0538 | 0.0538 | 0.0538 | 0.0538 | 0.0538 | 0.0538 | 774.8304 |
| High Turnover (Sit Down Restaurant) | 1.15165e+006 | 6.2100e-003 | 0.0565 | 0.0474 | 3.4000e-004 | 4.2900e-003 | 4.2900e-003 | 4.2900e-003 | 4.2900e-003 | 4.2900e-003 | 4.2900e-003 | 4.2900e-003 | 4.2900e-003 | 4.2900e-003 | 61.8216 |
| Industrial Park | 4.6395e+006 | 0.0250 | 0.2274 | 0.1910 | 1.3600e-003 | 0.0173 | 0.0173 | 0.0173 | 0.0173 | 0.0173 | 0.0173 | 0.0173 | 0.0173 | 0.0173 | 249.0526 |
| Strip Mall | 24450 | 1.3000e-004 | 1.2000e-003 | 1.0100e-003 | 1.0000e-005 | 9.0000e-005 | 9.0000e-005 | 9.0000e-005 | 9.0000e-005 | 9.0000e-005 | 9.0000e-005 | 9.0000e-005 | 9.0000e-005 | 9.0000e-005 | 1.3125 |
| Unenclosed Parking with Elevator | 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 |
| User Defined Commercial | 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 |
| User Defined Industrial | 6520 | 4.0000e-005 | 3.2000e-004 | 2.7000e-004 | 0.0000 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 2.0000e-005 | 0.3500 |
| Total | | 0.1092 | 0.9930 | 0.8341 | 5.9600e-003 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 1,087.3672 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------|-----|-----|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 2.444e+006 | | | | 650.7552 |
| General Office Building | 1.75e+007 | | | | 4,659.6626 |
| High Turnover (Sit Down Restaurant) | 216350 | | | | 57.6067 |
| Industrial Park | 5.103e+006 | | | | 1,358.7576 |
| Strip Mall | 196050 | | | | 52.2015 |
| Unenclosed Parking with Elevator | 2.0952e+006 | | | | 557.8814 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 52280 | | | | 13.9204 |
| Total | | | | | 7,350.7854 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-----------|-----|-----|------------|
| Land Use | kWh/yr | MT/yr | | | |
| Enclosed Parking with Elevator | 1.989e+006 | | | | 529.6039 |
| General Office Building | 1.61805e+007 | | | | 4,308.3240 |
| High Turnover (Sit Down Restaurant) | 206512 | | | | 54.9874 |
| Industrial Park | 5.103e+006 | | | | 1,358.7576 |
| Strip Mall | 172575 | | | | 45.9509 |
| Unenclosed Parking with Elevator | 1.6227e+006 | | | | 432.0705 |
| User Defined Commercial | 0 | | | | 0.0000 |

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| | | |
|-------------------------|-------|-------------------|
| User Defined Industrial | 46020 | 12.2536 |
| Total | | 6,741.9479 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | 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 | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Unmitigated | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

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 | 0.8981 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 6.9087 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 8.4100e-003 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Total | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

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 | 0.8981 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Consumer Products | 6.9087 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | | | | 0.0000 |
| Landscaping | 8.4100e-003 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |
| Total | 7.8152 | 8.3000e-004 | 0.0913 | 1.0000e-005 | | 3.2000e-004 | 3.2000e-004 | | 3.2000e-004 | 3.2000e-004 | | | | | | 0.1896 |

7.0 Water Detail

7.1 Mitigation Measures Water

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Apply Water Conservation Strategy

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|------------|
| Category | MT/yr | | | |
| Mitigated | | | | 1,739.5495 |
| Unmitigated | | | | 2,174.4368 |

7.2 Water by Land Use**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|---------------------|-----------|-----|-----|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| General Office Building | 248.827 / 152.507 | | | | 1,652.5412 |
| High Turnover (Sit Down Restaurant) | 1.51767 / 0.0968725 | | | | 7.6142 |
| Industrial Park | 104.063 / 0 | | | | 502.4363 |
| Strip Mall | 1.11109 / 0.680989 | | | | 7.3791 |
| Unenclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 0.925 / 0 | | | | 4.4661 |
| Total | | | | | 2,174.4368 |

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|--------------------|-----------|-----|-----|------------|
| Land Use | Mgal | MT/yr | | | |
| Enclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| General Office Building | 199.062 / 122.006 | | | | 1,322.0329 |
| High Turnover (Sit Down Restaurant) | 1.21413 / 0.077498 | | | | 6.0914 |
| Industrial Park | 83.25 / 0 | | | | 401.9490 |
| Strip Mall | 0.88887 / 0.544791 | | | | 5.9033 |
| Unenclosed Parking with Elevator | 0 / 0 | | | | 0.0000 |
| User Defined Commercial | 0 / 0 | | | | 0.0000 |
| User Defined Industrial | 0.74 / 0 | | | | 3.5729 |

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | |
|-------|--|--|--|------------|
| Total | | | | 1,739.5495 |
|-------|--|--|--|------------|

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|-----|-----|----------|
| | MT/yr | | | |
| Mitigated | | | | 230.2781 |
| Unmitigated | | | | 975.7547 |

8.2 Waste by Land UseUnmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-----------|-----|-----|-----------------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |
| General Office Building | 1302 | | | | 654.7778 |
| High Turnover (Sit Down Restaurant) | 59.5 | | | | 29.9226 |
| Industrial Park | 558 | | | | 280.6191 |
| Strip Mall | 15.75 | | | | 7.9207 |
| Unenclosed Parking with Elevator | 0 | | | | 0.0000 |
| User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 5 | | | | 2.5145 |
| Total | | | | | 975.7547 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|-----------|-----|-----|----------|
| Land Use | tons | MT/yr | | | |
| Enclosed Parking with Elevator | 0 | | | | 0.0000 |
| General Office Building | 307.272 | | | | 154.5276 |
| High Turnover (Sit Down Restaurant) | 14.042 | | | | 7.0617 |

TVC Operations - Land Use Exchange-Maximum VMT/Natural Gas Usage (With TDM) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-----------------------------------|---------|--|--|--|-----------------|
| Industrial Park | 131.688 | | | | 66.2261 |
| Strip Mall | 3.717 | | | | 1.8693 |
| Unenclosed Parking with | 0 | | | | 0.0000 |
| Flammable User Defined Commercial | 0 | | | | 0.0000 |
| User Defined Industrial | 1.18 | | | | 0.5934 |
| Total | | | | | 230.2781 |

9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation